

モデルナは、患者さんのために革新的な次世代型の新薬を生み出し、 mRNA サイエンスの約束を果たします。

私たちの mRNA プラットフォームによって、何百万人もの人々を苦しめる疾患から、 数十人を苦しめる超希少疾患まで、そして個人レベルの疾患まで、 世界が抱える重要な医療問題を解決できるよう取り組んで参ります。

mmmy



2022

日本免疫学会総会・学術集会記録

The 51st Annual Meeting of The Japanese Society for Immunology

第 51 巻

Program

Kumamoto-Jo Hall

December 7 (Wed.)

8 (Thu.)

9 (Fri.)

特定非営利活動法人 日本免疫学会

Proceedings of the Japanese Society for Immunology (JSI)
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The 51st Annual Meeting of The Japanese Society for Immunology

December 7–9, 2022 Kumamoto-Jo Hall Hybrid Format

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複写される方へ

特定非営利活動法人 日本免疫学会では、複写複製および転載複製に係る著作権を学術著作権協会に委託しています。当該利用をご希望の方は、学術著作権協会(https://www.jaacc.org/)が提供している複製利用許諾システムもしくは転載許諾システムを通じて申請ください。

権利委託先:一般社団法人学術著作権協会(https://www.jaacc.org/)

The 51st Annual Meeting of the Japanese Society for Immunology places utmost importance on the safety and security of all who are involved: participants, organizers, and staff, and takes the following measures. We would like to ask for your understanding and cooperation.

Basic guidelines on COVID-19 infection control

We will follow measures set by Kumamoto-Jo Hall based on policies of the Kumamoto prefectural government to prevent spread of COVID-19.

Request to visitors

Please refrain from coming to the meeting venue if you don't feel well.

Any person having a fever, cough, pain in the throat, feeling of malaise or breathing problem on the day of the meeting is not allowed in the meeting venue.

Practice Social Distancing

Please try to practice social distancing. Mask is not obligatory outside or at the place where you can make enough distance from others. However, please wear a mask if you feel it is necessary.

Infection Control

Please try to cooperate us to protect you and all the others who participate and engage in the 51st Annual Meeting of the Japanese Society for Immunology.



Please wear a mask when you talk and discuss with others. Mask is not obligatory outside or at the place where you can make enough distance from others.



Please use hand sanitizers placed near entrances of buildings or rooms often.

Please use them every time you enter or exit.

Program of The Japanese Society for Immunology (JSI)

Vol. 51

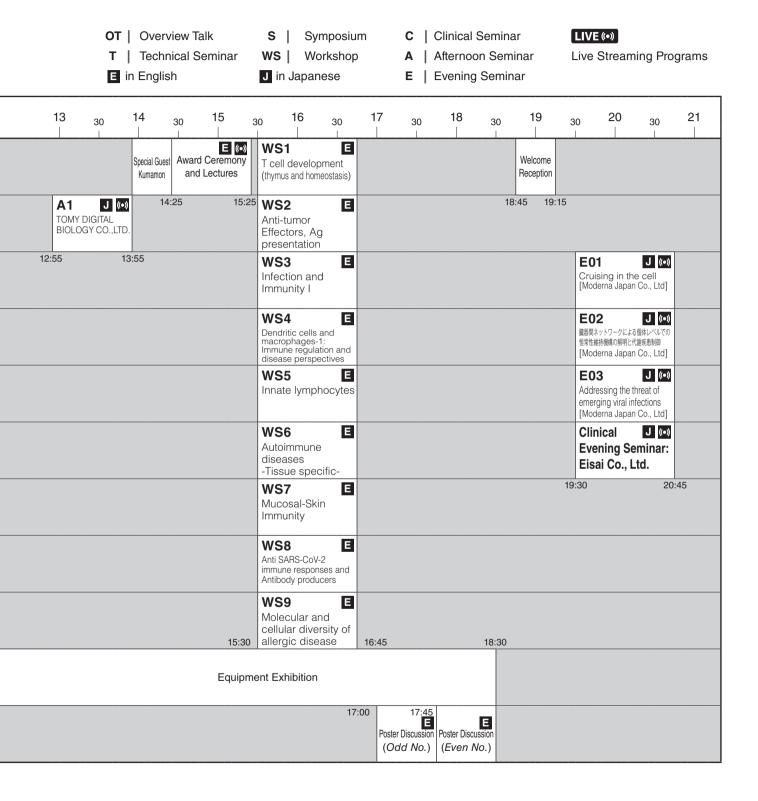
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The 51st Annual Meeting of the Japanese Society for Immunology Program at a glance

December 7 (Wed.), 2022

Bui	lding / Room	Program Room Number	8	30	9 30	10 3	0 11	30	12 	30	
4 F	Main Hall	Room A		OT01 S01 E (**) Immune response against SARS-CoV-2 will be discussed. Sponsored by International Immunology 11:50							
2 _F	Civic Hall	Room B		OT02 J	Non-immune o	S02					
	Conference Room A1	Room C		OT03	S03 Perspectives of cancer immun			E ((•))	C01 CHUGAI PHARMATI LTD.	CAL CO.,	
	Conference Room A2	Room D		OT04 J	Introduction to		C02 MSD K.	J (•)			
	Conference Room A3	Room E		OT05 S05 Immune tolerance and regulation: toward a comprehensive understanding of immune and tissue homeostasis: DGFI-JSI Joint Session						J (•) ery K.K.	
3 _F	Conference Room A4	Room F		OT06 S06 J From Pathology to Physiology: Understanding immune system through human immune-mediated disorders						J (•) GITAL CO., LTD.	
	Conference Room C1·C2	Room G		8:30 9	:00			11:30	C03 Janssen Pha K.K. / Mitsu Pharma Corp	bishi Tanabe	
	Conference Room D1·D2	Room H						11:45	T04 Standar BioTools	-	12:45
	Conference Room E1·E2	Room I		9	:00						
16	Exhibition Hall	Equipment Exhibition				Equi	ipment Exl	hibition			
	A·B	Poster									



The 51st Annual Meeting of the Japanese Society for Immunology Program at a glance

December 8 (Thu.), 2022

Buil	Iding / Room	Program Room Number	8 ₃₀ 9 ₃₀ 10 ₃₀ 11 ₃₀ 12 ₃₀	
4 F	Main Hall	Room A		
2 F	Civic Hall	Room B	OT07 S07 E © C04 J © Takeda Pharmaceutical memory : ASI-JSI Joint Session Company Limited	
	Conference Room A1	Room C	OT08 S08 E (C05 J (ASAHI KASEI Pharma	
	Conference Room A2	Room D	OT09 S09 E () C06 J () Pfizer Japan Inc JSI-JSA Joint Session	
	Conference Room A3	Room E	OT10 S10 E M T05 J M Advances in research of innate immune sensor and diseases: US-Japan Immunology Program Co-organized Session Co-organized Session	
3 _F	Conference Room A4	Room F	OT11 S11 E () C07 DAIICHI SANKYO COMPANY, LIMITED	
	Conference Room C1·C2	Room G	8:30 9:00 11:30 C08 U Otsuka Pharmaceutical Co., Ltd.	
	Conference Room D1·D2	Room H	T06 Thermo Fisher Scientific	
	Conference Room E1·E2	Room I	9:00 11:45 T07 U SARTORIUS JAPAN K.K.	2:45
1 _F	Exhibition Hall	Equipment Exhibition	Equipment Exhibition	
	A·B	Poster		

	Overview Talk Technical Seminar English	S Symposium WS Workshop J in Japanese	C Clinical SeminarA Afternoon SeminaE Evening Seminar	LIVE (•) Live Streaming Programs
13 30 14	. ₃₀ 15	30 16 30 17	7 30 18 30	19 ₃₀ 20 ₃₀ 21
A2 J () Nippon Becton Dickinson Company, Ltd.	WS10 T cell function and diseases-1 (Disease models and SARS-CoV-2)	WS18 T cell function and diseases-2 (Disease models)		Young Academy Program
12:55 13:55	WS11 E Tumor Immunotherapy	WS19 Mucosal and Skin Surface Barrier	mF Pre	Q4 J (a) 20:05 21: RNA therapeutics: esent and future oderna Japan Co., Ltd]
	WS12 E Infection and Immunity II	WS20 Dendritic cells and macrophages-2: Myeloid cell linage and their differentiation	HE of	O5 J (v) D Video Recorder the Cell oderna Japan Co., Ltd]
	WS13 B cell Development and Activation	WS21 E Molecular and cellular diversity of allergic diseases (II)	ヒト	06 J (い) ・ 肝臓オルガノイドを用いた代謝・ 性肝疾患研究 oderna Japan Co., Ltd]
	WS14 E Innate immunity (1) Innate inflammation and disease	WS22 E Hematopoiesis and Immune Environment	老f と 5	07 J (い) 化に伴う慢性炎症病態 免疫 oderna Japan Co., Ltd]
	WS15 Autoimmune diseases -Systemic-	WS23 E Human Immunology (Immunointervention)	18:45	20:00
	WS16 Tolerance and Immune suppression-1	WS24 Tolerance and Immune suppression-2		
14:05	WS17 E Cytokines and Chemokines-1 15:20	WS25 E Cytokines and Chemokines-2 15:30 16:45	18:25	
	Equipm	ent Exhibition		
			17:40 Ester Discussion Poster Discussion (Even No.)	

The 51st Annual Meeting of the Japanese Society for Immunology Program at a glance

December 9 (Fri.), 2022

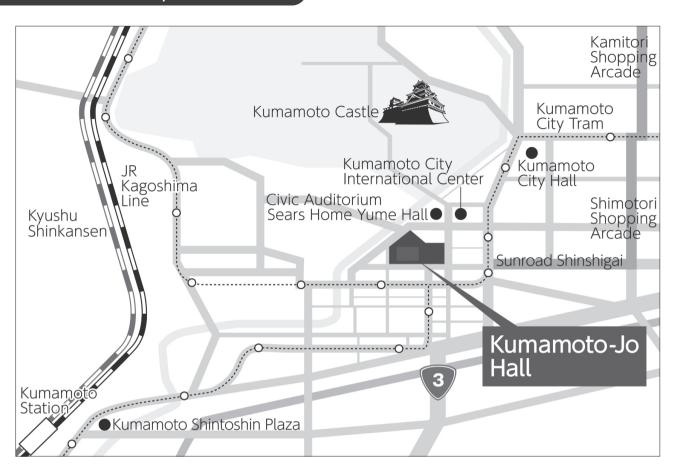
Buil	lding / Room	Program Room Number	8 ₃₀ 9 ₃₀ 10 ₃₀ 11 ₃₀ 12 ₃₀	
4 F	Main Hall	Room A		
2 _F	Civic Hall	Room B	OT12 S12 E (C09 J (Novartis Pharma K.K. Pharma K.K.	
	Conference Room A1	Room C	OT13 S13 E (TO8 Nippon Becton Dickinson between innate and adaptive immunity: DGFI-JSI Joint Session	
	Conference Room A2	Room D	OT14 S14 E () ONO PHARMACEUTICAL CO., LTD CO., LTD	
3 _F	Conference Room A3	Room E	OT15 J Recent Advances in immunometabolism AbbVie GK	
	Conference Room A4	Room F	OT16 J Microbiota and the host immune system : US-Japan Immunology Program Co-organized Session C12 J Specialty Care Medical, Sanofi K.K.	
	Conference Room C1·C2	Room G	8:30 9:00 11:30 T09 L eica Microsystems K.K. 9:00 11:45	
1 _F	Exhibition Hall	Equipment Exhibition	Equipment Exhibition	
	A·B	Poster		

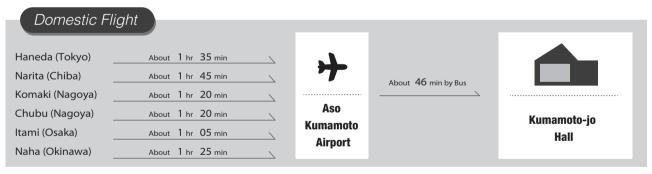
	OT Overview Talk T Technical Seminar E in English		T Technical Seminar WS Workshop A A			A Afternoon Seminar			Live Streaming Programs								
1	3 ₃	30 	14 	30	15 	30	16 	30	17	30	18	30	19	30	20	30	21
	WS26 T Cell a and res (humar	activat spons	es														
	WS27 Tumor Microe Metabo	nviron	E iment,														
	WS28 Infection Immun	n and	E														
	WS29 Dendritic macropha Regulatio productio	cells an	- 1														
	WS30 Innate Innate and sig	immui recog	nition														
12,00	WS31 Autoim		y	14.15			10:00										
13:00			Equipn	14:15 nent Exh			16:00										
			14:	Poste	15:15 E r Discussion dd No.)	Poster Discus (Even N											

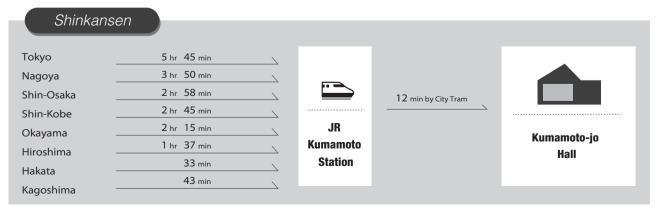
WS 一覧

	Session Works	Workshop (Poster)						
No.	Title	The number of presentations	Date & Time	Room	Presentation No.	Date	Discussion Time (odd number)	Discussion Time (even number)
WS01	T cell development (thymus and homeostasis)	7	December 7 (Wed.) 15:30-16:45	Room A	WS01-01 ~ WS01-21	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS02	Anti-tumor Effectors, Ag presentation	8	December 7 (Wed.) 15:30-16:45	Room B	WS02-01 ~ WS02-28	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS03	Infection and Immunity I	9	December 7 (Wed.) 15:30-16:45	Room C	WS03-01 ~ WS03-26	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS04	Dendritic cells and macrophages-1: Immune regulation and disease perspectives	8	December 7 (Wed.) 15:30-16:45	Room D	WS04-01 ~ WS04-21	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS05	Innate lymphocytes	10	December 7 (Wed.) 15:30-16:45	Room E	WS05-01 ~ WS05-22	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS06	Autoimmune diseases -Tissue specific-	8	December 7 (Wed.) 15:30-16:45	Room F	WS06-01 ~ WS06-21	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS07	Mucosal-Skin Immunity	9	December 7 (Wed.) 15:30-16:45	Room G	WS07-01 ~ WS07-22	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS08	Anti SARS-CoV-2 immune responses and Antibody producers	12	December 7 (Wed.) 15:30-16:45	Room H	WS08-01 ~ WS08-22	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS09	Molecular and cellular diversity of allergic disease	9	December 7 (Wed.) 15:30-16:45	Room I	WS09-01 ~ WS09-20	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS10	T cell function and diseases-1 (Disease models and SARS-CoV-2)	7	December 8 (Thu.) 14:05-15:20	Room B	WS10-01 ~ WS10-25	December 7 (Wed.)	17:00-17:45	17:45-18:30
WS11	Tumor Immunotherapy	10	December 8 (Thu.) 14:05-15:20	Room C	WS11-01 ~ WS11-26	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS12	Infection and Immunity II	8	December 8 (Thu.) 14:05-15:20	Room D	WS12-01 ~ WS12-25	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS13	B cell Development and Activation	11	December 8 (Thu.) 14:05-15:20	Room E	WS13-01 ~ WS13-19	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS14	Innate immunity (1) Innate inflammation and disease	7	December 8 (Thu.) 14:05-15:20	Room F	WS14-01 ~ WS14-18	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS15	Autoimmune diseases -Systemic-	9	December 8 (Thu.) 14:05-15:20	Room G	WS15-01 ~ WS15-20	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS16	Tolerance and Immune suppression-1	10	December 8 (Thu.) 14:05-15:20	Room H	WS16-01 ~ WS16-19	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS17	Cytokines and Chemokines-1	10	December 8 (Thu.) 14:05-15:20	Room I	WS17-01 ~ WS17-16	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS18	T cell function and diseases-2 (Disease models)	8	December 8 (Thu.) 15:30-16:45	Room B	WS18-01 ~ WS18-25	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS19	Mucosal and Skin Surface Barrier	9	December 8 (Thu.) 15:30-16:45	Room C	WS19-01 ~ WS19-23	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS20	Dendritic cells and macrophages-2: Myeloid cell linage and their differentiation	8	December 8 (Thu.) 15:30-16:45	Room D	WS20-01 ~ WS20-21	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS21	Molecular and cellular diversity of allergic diseases (II)	9	December 8 (Thu.) 15:30-16:45	Room E	WS21-01 ~ WS21-21	December 8 (Thu.)	16:55-17:40	17:40-18:25
WS22	Hematopoiesis and Immune Environment	10	December 8 (Thu.) 15:30-16:45	Room F	WS22-01 ~ WS22-25	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS23	Human Immunology (Immunointervention)	9	December 8 (Thu.) 15:30-16:45	Room G	WS23-01 ~ WS23-16	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS24	Tolerance and Immune suppression-2	10	December 8 (Thu.) 15:30-16:45	Room H	WS24-01 ~ WS24-20	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS25	Cytokines and Chemokines-2	10	December 8 (Thu.) 15:30-16:45	Room I	WS25-01 ~ WS25-17	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS26	T Cell activation and responses (human and Vitro)	9	December 9 (Fri.) 13:00-14:15	Room B	WS26-01 ~ WS26-24	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS27	Tumor Microenvironment, Metabolism	8	December 9 (Fri.) 13:00-14:15	Room C	WS27-01 ~ WS27-27	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS28	Infection and Immunity III	8	December 9 (Fri.) 13:00-14:15	Room D	WS28-01 ~ WS28-25	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS29	Dendritic cells and macrophages-3: Regulation of cytokine production, pathogenesis	8	December 9 (Fri.) 13:00-14:15	Room E	WS29-01 ~ WS29-24	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS30	Innate immunity (2) Innate recognition and signaling	7	December 9 (Fri.) 13:00-14:15	Room F	WS30-01 ~ WS30-20	December 9 (Fri.)	14:30-15:15	15:15-16:00
WS31	Autoimmunity	8	December 9 (Fri.) 13:00-14:15	Room G	WS31-01 ~ WS31-20	December 9 (Fri.)	14:30-15:15	15:15-16:00

Kumamoto-Jo Map

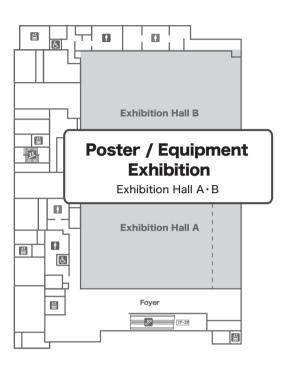




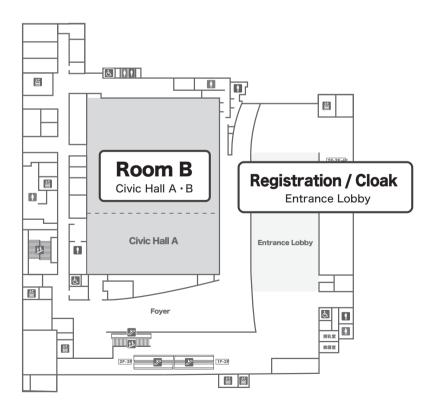


Kumamoto-Jo Hall

1 F

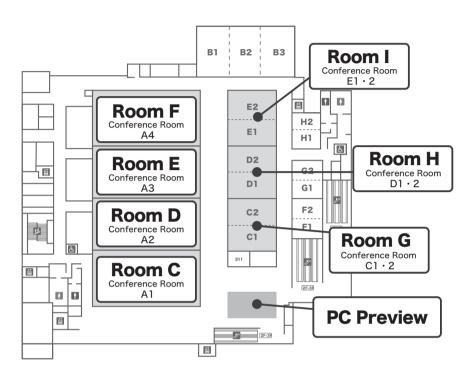


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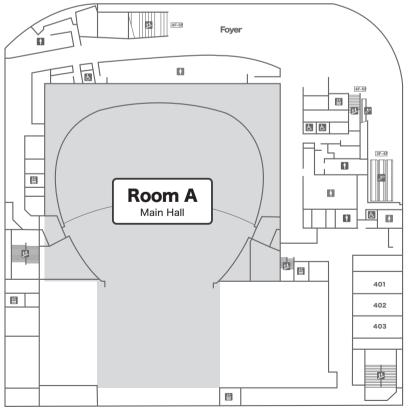


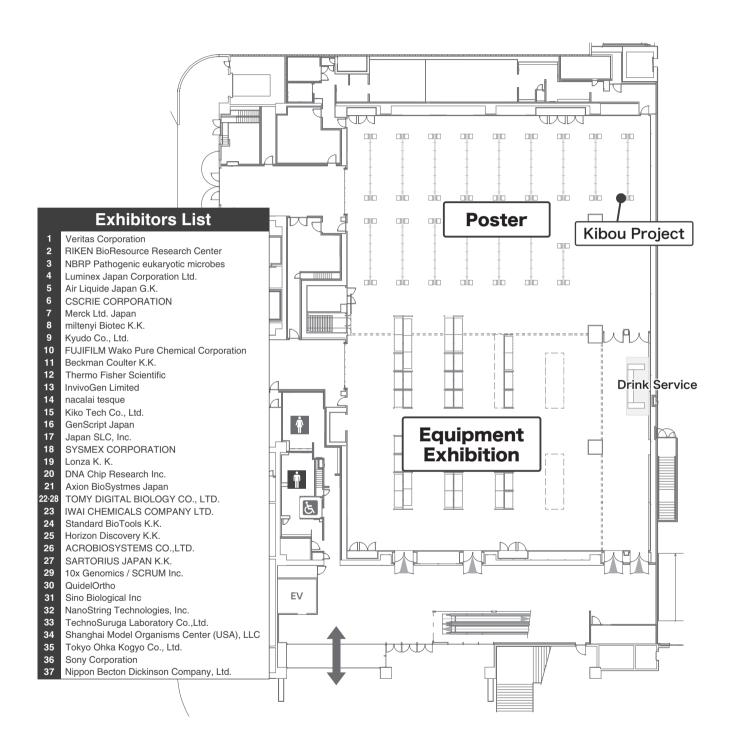
Kumamoto-Jo Hall

3_F



4F





ご案内

1. 現地会場 (熊本) での参加方法

◆ オンラインで参加登録をされた方

参加証(ネームカード)や領収書、参加証明書は、学術集会オンラインシステム「ONLINE CONF」 ヘログインのうえダウンロードしてください。ログインにはご自身で登録したメールアドレスとパス ワードをお使いください。

ネームホルダーは、現地の受付付近でお受け取り下さい。

◆ 現地で当日参加申込をされる方

参加受付にて学術集会参加費(下記参照)をお支払いのうえ、ネームカードをお受け取りください。 ネームカードをご着用でない方の入場はお断りします。

(当日参加費(後期登録))

正会員14,000 円学生会員*3,000 円学部学生会員*無 料非会員17,000 円非会員学生*7,000 円非会員学部学生*無 料

- * 学部・大学院生は学生証の提示が必要です
- * お支払いは現金のみです

〈参加受付開設時間〉

12月7日 (水)7:45~18:0012月8日 (木)8:00~18:0012月9日 (金)8:00~15:00

◆ 名誉会員・功労会員

2階 エントランスロビーの学会事務局デスクにお越しください。 名誉会員・功労会員の先生方には現地、オンライン参加に関わらず、 事前に JSI 事務局よりオンライン視聴用の URL + PW をご案内いたします。

2. オンラインでの参加方法

オンラインではオーバービュートーク、シンポジウム、テクニカルセミナー、クリニカルセミナー、アフタヌーンセミナー、イブニングセミナーの発表が配信されます。ワークショップ(口頭発表およびポスター)およびポスターの配信はいたしません。



◆ オンラインで参加登録をされた方

学術集会オンラインシステム「ONLINE CONF」へアクセスし、抄録やオンライン配信をご覧ください。

領収書や参加証明書も「ONLINE CONF」よりダウンロードしてください。

◆ 現地で当日参加申込をされた方

現地で参加登録をした後、オンライン配信を視聴する場合は、参加証に学術集会オンラインシステム「ONLINE CONF」の ID と PW が記載さていますので、ホームページよりアクセスの上、オンライン配信をご覧ください。

3. オンデマンド配信について

一部のプログラムでは、会期中の発表を録画しオンデマンド配信いたします。 もう一度見たい講演や見逃した講演など、是非ご覧ください。

〈配信期間〉

プログラム実施の約3円後~2023年1月10日(火)

〈視聴方法〉

学術集会オンラインシステム「ONLINE CONF」へログインのうえご視聴ください。 〈配信するプログラム〉

Overview Talk、シンポジウム、イブニングセミナー:発表者の承諾を得た一部の発表を配信します。配信対象の発表は、プログラムページでアイコンを表示しています。

OD

一般演題(Workshop/□頭発表):配信はいたしません。

一般演題 (ポスター):配信はいたしません。

4. 入会手続きおよび年会費の納入

日本免疫学会に未入会の方は、学会事務局デスク(現地会場)にて入会できます。2023 年度会費および未納年会費の納入も同所で受け付けます。また、学会ホームページでもお手続きできます。

入会金 1,000円 年会費 国内正会員 11,000円 海外正会員 12,000円 国内学生会員 3,000円 海外学生会員 4,000円

※一般演題の筆頭著者(発表者)は、2022年度の会員(正会員、学生会員、功労会員、名誉会員に限ります)であることが義務付けられております。

5. プログラム、抄録集(プロシーディングス)

プログラムは、学術集会ホームページで公開し、また現地会場でも冊子を配布いたします。 会員は、抄録集(プロシーディングス)を PDF データ形式で学会ホームページの会員専用ページに て閲覧できます。閲覧にはご自身の会員番号(ID)とパスワードが必要です。

2022 年度会費を最近納入されたにもかかわらず、会員専用ページで閲覧できない際には学会事務局へお問い合わせください。

非会員の方には 5,000 円(税込)にて Web 抄録集の閲覧 URL とパスワードを販売いたします。 必要な方は参加登録の際にお申込みください。現地会場で参加申込をする方は、学会事務局デスク へお越しください。

6. 授賞式·受賞講演

授賞式:12月7日(水) 14:15~14:25 A 会場(メインホール)にて行います。

- · 日本免疫学会 功労会員表彰式
- · 日本免疫学会賞 授賞式
- ・日本免疫学会ヒト免疫研究賞 授賞式
- · 日本免疫学会女性免疫研究者賞 授賞式
- · 日本免疫学会研究奨励賞 授賞式
- · International Immunology Outstanding Merit Award 授賞式

受賞講演:12月7日(水)14:25~15:15 ※授賞式に引き続き行います。 日本免疫学会賞、日本免疫学会ヒト免疫研究賞、日本免疫学会女性免疫研究者賞 受賞講演

7. 学術集会プログラム

本大会では以下のプログラムを実施します。

ウェルカムレセプション

本学術集会では日本免疫学会の新しい 50 年の門出を祝し、ささやかながらウェルカムレセプションの開催を大会初日に予定しております。事前申込不要・参加費不要です。 現地会場にお越しの方は是非ご参加くださいませ。

アフタヌーンセミナー

協力企業との密な連携のもと、次世代を担う免疫学研究者を育成するプラットホームの構築をめ ざし、企業ならではの趣向を取り入れたセミナーです。

イブニングセミナー

免疫学会の次の 50 年の第一歩として「未来の免疫学」と題し、「老化」「脳神経代謝」「再生」「合成生物学」「RNA 創薬」など今後免疫学の分野でも重要になってくるであろう領域について、本業として免疫を専門とされないその分野の第一人者をお招きし、わかりやすく講演していただくセミナーです。演者の講演に加え、座長による研究成果と将来の夢について紹介があります。軽食も用意しておりますので、若い人たちの積極的なご参加を是非ともお願いします。

若手フォーラム 「免疫学の未来」 (免疫若手アカデミー共催)

免疫学の未来を展望する若手座談会(フォーラム)を予定しています。当日は Web での参加も 歓迎します。会場および zoom での質疑応答もあります。どんな研究をしたらよいか?どのよう な手法を用いるべきか?何を明らかにすべきか?将来のキャリアパスは?皆で語り合いましょう。

オーバービュートーク

各領域の基礎知識、歴史と発展を系統的に紹介する入門者向けの教育講演です。オーバービュートーク終了後、休憩時間をはさまずシンポジウムに移ります。

シンポジウム

国内外の免疫の研究者による 16 テーマ (S01 ~ S16) の国際シンポジウムを開催します。 演者の選考および形式については、プログラム委員会で指名した座長に一任いたしました。 それぞれのシンポジウムが同時進行する形をとります。シンポジウム進行方法、各演者の講演時間などは全て座長に一任しております。

JSI-JSA Joint Symposium

日本アレルギー学会とのジョイントセッションです。詳細はプログラムページをご確認ください。

JCR-JSI Joint Symposium

日本リウマチ学会とのジョイントセッションです。詳細はプログラムページをご確認ください。

ポスター、ワークショップ (口頭発表)

一般演題は、すべての演題のポスター発表と一部の演題による□頭発表が行われます。□頭発表と共にポスターでの活発な討論をお願いいたします。

ポスター討論ではディスカッサーを設けますので、会員、参加者の皆様の熱のこもった討論、そしてさらなる交流・情報交換の場となることを期待しております。

ベストプレゼンテーション賞、ベストポスター賞

各 Workshop、ポスターセッションでそれぞれ一件のベストプレゼンテーション賞、ベストポスター賞を選定する予定です。

ぜひ活発なディスカッションをお願いいたします。

ランチョンセミナー

テクニカルセミナー、クリニカルセミナーはランチョン形式で行います。お弁当の入手方法については、次項の「8. セミナー整理券」をご参照ください。

講演の言語は「At a Glance」ページでご確認ください。

▶ テクニカルセミナー

最新の医学・生命科学関連試薬・技術・機材・器機等を使った実験法などや、アレルギー・免疫疾患・癌・感染症研究に関連する最新の器機紹介を通じて、基礎研究・応用研究・開発研究の融合の場となるセミナーです。

▶ クリニカルセミナー

医薬品・生物学的製剤等による免疫疾患や感染症の診断や治療・予防の進展などをご紹介いただくセミナーです。

8. セミナー整理券 (ランチョンセミナー、イブニングセミナー)

テクニカルセミナー、クリニカルセミナー、イブニングセミナーで配布されるお弁当や軽食は、「セミナー整理券」と引き換えにてお渡しいたします。「セミナー整理券」は以下のように配布いたします。

なお、お弁当の数には限りがあります。予めご了承ください。

◆ セミナー整理券発券デスク

各日お一人につき一枚、セミナー整理券を配布します。複数枚のお渡しはできませんのでご了承ください。

場 所:2階 エントランスロビー

配布時間: 各日 OPEN ~ 11:30 ※ 11:30 以降は各セミナー会場前で配布いたします

◆ お弁当の引換開始時刻

セミナー開始 15 分前より、各セミナー会場前でセミナー整理券とお弁当を引き換えのうえ、会場へ の入場を開始いたします。

※会場の状況、直前セッションの進行状況等により前後することがございます。

〈ご注意〉

- ・セミナー開始時刻までに来られない場合にはセミナー整理券は無効となり、整理券をお持ちでない方にご提供しますことをご了承ください。
- ・整理券をお持ちでなくてもセミナーを聴講することはできますが、余剰がない場合はお弁当の配 布はございませんのでご了承ください。

9. 機器・試薬等展示

会期中、大会会場内で機器・試薬展示を行います。休憩コーナー、ドリンクコーナーもご用意いた しますので、是非ご来場ください。

また、出展企業より提供される景品が当たるスタンプラリーも実施します。豪華景品もご用意しておりますので、是非ご参加ください。

10. 会員懇親会

本学術集会では会員懇親会を実施いたしません。ただし、1 日目の 18 時 45 分から 19 時 15 分にウェルカムレセプションを行い、飲み物をご提供する予定です。

11. インターネット接続

会場内では WiFi をご利用いただけます(無料)。接続するための SSID とパスワードは、会場内で掲示します。

12. 学術集会講演会場における撮影・録音行為の規制について

学術集会講演会場(シンポジウム会場、□頭発表会場、ポスター会場など、学会発表内容のある場所)における撮影、録音行為を禁止いたします。ただし、学会が承認したものはその限りではありません。これは、発表者の許可無く学会発表の撮影・録音がおこなわれることにより、論文未掲載の最新データの発表が差し控えられるという現状を鑑みたものです。

会員の皆様の積極的かつ、活発な研究発表と討議がなされることを期待いたします。

General Information

1. On-site Participation (Kumamoto)

◆ Participants who registered online

Log into your account of ONLINE CONF, the online conference system, and download your meeting badge and the receipt of the registration fee. You can log into the system with your email address and password you set. Badge holders are available at the Registration Desk.

Participants who register on-site

Please come to the registration desk, pay registration fee below and receive a meeting badge. Participants without wearing their meeting badges will not be allowed to enter the meeting site.

(On-Site Registration Fees (Late))

Member: JPY 14,000
Student Member *: JPY 3,000
Undergraduate Student Member*: Free
Non-member: JPY 17,000
Student Non-member*: JPY 7,000
Undergraduate Student Non-member*: Free

(Registration Desk opening hours)

December 7 (Wed) 7:45 - 18:00

December 8 (Thu) 8:00 - 18:00

December 9 (Fri) 8:00 - 15:00

♦ Honorary members / Meritorious members

Please come to the JSI Secretariat Desk at Entrance Lobby, 2F.

Honorary and Meritorious members who attend on-site or virtually will receive the URL and password to view online programs from JSI secretariat prior to the meeting.

2. Online Participation

Overview Talks, Symposia, Technical Seminars, Clinical Seminars, Afternoon Seminars and Evening Seminars will be distributed online. Workshop (both oral and poster) will not be distributed.



Participants who registered online

Log into "ONLINE CONF": the online meeting system, then you can browse abstracts and view lectures online. A receipt of registration fee and certificate of attendance are downloadable from this system.

^{*}Undergraduate and graduate students are required to show their student ID.

^{*}We accept cash only.

◆ Participants who registered on-site

After register on-site, you can view lectures online as well. ID and password to log into ONLINE CONF, the online conference system, will be printed on your meeting badge. You can access to the system from the meeting website.

3. On-demand Streaming

Some sessions will be recorded and available for on-demand streaming after the meeting. You can view sessions which you want to view again, or you miss during the meeting.

(Streaming Period)

3 days after sessions to January 10 (Tue).

(How to view)

Log into "ONLINE CONF" and start viewing on-demand streaming sessions.

(On-demand streaming sessions)

Overview Talk / Symposia / Evening Seminars / Lectures will be available for on-demand streaming with approval from those lecturers. Lectures available for on-demand streaming are marked with the icon on the program page.



Regular presentations (Workshop/Oral): Not available for on-demand streaming

Regular presentations (Poster): Not available for on-demand streaming

4. Application and Annual Membership Fee

You can join the JSI (the Japanese Society for Immunology) at the JSI desk on the meeting site. You can also pay your membership fees at the JSI desk. For online participants, please visit the society website to join the membership or pay membership fees.

Application fee		JPY 1,000
Annual Membership Fee	Member (Domestic)	JPY 11,000
	Member (Overseas)	JPY 12,000
	Student Member (Domestic)	JPY 3,000
	Student Member (Overseas)	JPY 4,000

^{*}First Authors (Presenting authors) must be JSI members: Regular, Student, Meritorious and Honorary members. However, foreign-registered authors residing outside Japan are excluded.

5. Meeting Program / Proceedings (Abstracts)

Digital version of Meeting Program will be available on the meeting website and printed version of Meeting Program will be distributed to all participants on the meeting site.

Proceedings (abstracts) as a PDF file will be available at the website for JSI members. You need your membership ID and password to login to this website.

If you completed the payment of 2022 annual membership fee, but you cannot login to the website for JSI members, please contact the JSI secretariat.

If you are not a JSI member, you can purchase ID and password to login to the website for JPY 5,000 through the meeting website in advance or the JSI Secretariat Desk on the meeting site.

6. Awards Ceremony & Lectures

Ceremonies: Wednesday, December 7, 14:15-14:25, Room A (Main Hall)

- · Commendation Ceremony of JSI Meritorious Member
- · JSI Award Ceremony
- · JSI Human Immunology Research Award Ceremony
- · JSI Women Immunologist Award Ceremony
- · JSI Young Investigator Award Ceremony
- · International Immunity Outstanding Merit Award Ceremony

Lectures: Wednesday, December 7, 14:25-15:15, Room A (Main Hall)

Lectures below will be held after the above Ceremonies.

- · JSI Award Lecture
- · JSI Human Immunology Research Award Lecture
- · JSI Women Immunologist Award Lecture

7. Programs

The 51st JSI meeting will have following programs.

Welcome Reception

We would like to have a small celebration of the next 50 years of the Japanese Society for Immunology and hold "Welcome Reception" on Day 1. No pre-registration nor participation fees are required. We hope that all of on-site attendees will join us on this occasion.

Afternoon Seminars

Those seminars are held aimed at building platforms for developing Immunologists who are responsible for the next generation in close collaborations with cooperative companies. Those are elaborate seminars unique to the companies.

Evening Seminars

As a first step toward the next 50 years of the Japanese Society for Immunology, the evening seminars entitled "Future of Immunology" will be held. We invite leading researchers whose core areas of specialization are not Immunology but are the fields of study such as "Aging" "Brain, Nerve, Metabolism" "Regeneration" "Synthetic Biology", and "mRNA drug discovery", which will become more important to the field of Immunology. Chairpersons of the seminars will be appointed among young researchers, and they will be asked to speak about their research dreams.

Round-table discussion for young scientists

The round-table discussion for young researchers (forum) will be held to look toward the future of Immunology. Refreshments will be served during the forum. We look forward to active participation of young researchers in the forum.

Overview Talk

Overview talks held prior to each symposium are kind of educational lectures and especially for students or those who are not specialized in the topics.

Symposia

International symposia on 16 topis (S01-S16) will be held by both domestic and overseas immunologists. The program committee appointed chairs of symposia and left selection of speakers to the discretion of those chairs.

Some symposia will be conducted concurrently. Chairs decide how they lead their sessions and presentation time of each speaker.

JSI-JSA Joint Symposium

The symposium will be held jointly with Japanese Society of Allergology. Refer to the program page for detailed information.

JCR-JSI Joint Symposium

The symposium will be held jointly with Japan College of Rheumatology. Refer to the program page for detailed information.

Workshop (Oral presentations and Poster)

All regular papers are to be presented at Poster session. Some of selected regular papers are to be presented at Workshop as well. Discussers will join poster discussion. We hope that poster discussion will be a great opportunity for active discussion, communication, and information exchange between JSI members and non-members.

Best Presentation Award / Best Poster Award

The Best Presentation Award will be selected among presentations in Workshops and the Best Poster Award will be selected among presentations in Poster sessions.

We hope you all engage active discussions.

Luncheon Seminars

There will be three types of sponsored seminars: Technical Seminars, Clinical Seminars and Afternoon Seminars.

Technical and Clinical Seminars will be held in the form of luncheon seminars. Please refer to "8. Luncheon Seminar Ticket" for more information regarding Luncheon seminars.

Language of each seminer can be found on "At a Glance" of the program page of our website.

◆ Technical Seminars

Those seminars aim to promote interaction between basic research, application research and development research through introducing experimental methods with latest life science related regents, technologies, machines and equipment, or latest equipment for researching allergy, immunological diseases, cancer, and infectious disease.

Clinical Seminars

Those seminars aim to introduce developments of diagnosis, treatment and prevention of immunological and infectious diseases caused by pharmaceutical and biological products.

◆ Afternoon Seminars

These seminars aim to build a platform of development of immunologists who will be engaged in the next generation through close cooperation with companies. Companies add fresh dimensions to seminars by their unique idea.

8. Luncheon Seminar Ticket (Luncheon Seminars)

A box lunch will be served for those has a Luncheon Seminar Ticket at both Technical and Clinical Seminars. Please kindly note that number of tickets are limited. Tickets will be distributed as below:

♦ Luncheon Seminar Ticket Desk

One ticket for one person on a day. Ticket distribution is on the first come, first served basis. We are not able to distribute more than one ticket to one person on a day.

Location: Entrance Lobby, 2F

Time: OPEN-11:30 (After 11:30, you may receive a ticket in front of each session room if tickets are still available)

◆ Receiving a box lunch

Redeem a ticket to receive a box lunch. You can receive it from 15 minutes before seminars begin in front of each seminar room.

*Starting time for receiving may be changed depending on previous seminar's ending time.

(IMPORTANT)

- Please arrive at the seminar rooms before the start time. If you do not show up in the room by the start time, your box lunch will be provided to another attendee who does not have a ticket.
- · You can attend those seminars without tickets, however, a box lunch will not be served.

9. Commercial Exhibition – Exhibition of Machineries and Reagents

Exhibitions of machineries and reagents will be held. There will a resting space and drink service in the exhibition space.

If you collect stamps by visiting exhibition booths, you can get gifts provided by exhibitors. You have chance to win a special gift. Look forward to your participation in the stamp tally.

10. Get Together Party

Get together party will not be held this year. However, "Welcome Reception" will be held on Day 1, 18:45-19:15. Drinks will be served at the reception.

11. Internet access

Free Wi-Fi is available in the venue. The SSID and password to use Wi-Fi will be displayed in the venue.

12. Photographing and recording

Photographing and recording are prohibited in all sessions. However, photographing and recording by those who have obtained the permission from the JSI may be granted.

Overview Talk

Program for Overview Talks

8:30 ~ 9:00, Wednesday, December 7

OD OT01 Overview Talk 01 LIVE (*) Room A: Main Hall

Chairpersons: Hisashi Arase (WPI Immunology Frontier Research Center, Osaka University)
Saya Moriyama (National Institute of Infectious Diseases)

Overview of COVID-19 in Japan

Satoshi Kutsuna Graduate School of Medicine / Faculty of Medicine, Osaka University

8:30 ~ 9:00, Wednesday, December 7

OD OT02 Overview Talk 02 LIVE (•) Room B: Civic Hall

Chairpersons: Masaru Ishii (Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University)
Hiroshi Takayanagi (Graduate School of Medicine, The University of Tokyo)

Overview of immune regulation by non-immune cells

Noriko Komatsu Department of Immunology Graduate School of Medicine and Faculty of Medicine, The University of Tokyo

8:30 ~ 9:00, Wednesday, December 7

OD OT03 Overview Talk 03 LIVE (*) Room C: Conference Room A1

Chairpersons: Yuki Kagoya (Aichi Cancer Center Research Institute) Seiichi Ohta (The University of Tokyo)

Current status and issues of synthetic biological approaches in cancer immunotherapy

Hiroshi Kawamoto Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan / Laboratory of Regenerative Immunology, International Center for Cell and Gene Therapy, Fujita Health University, Toyoake, Aichi, Japan

8:30 ~ 9:00, Wednesday, December 7

OD OT04 Overview Talk 04 LIVE (*) Room D: Conference Room A2

Chairpersons: Satoko Arai (Graduate School of Medicine, The University of Tokyo) Yohei Mikami (Keio University School of Medicine)

Resolution of inflammation: D'où venons-nous ? Que sommes-nous ? Où allons-nous ?

Yohei Mikami Division of Gastroenterology and Hepatology Department of Internal Medicine, Keio University School of Medicine

8:30 ~ 8:50, Wednesday, December 7

OD OT05 Overview Talk 05 LIVE (*) Room E: Conference Room A3

Chairpersons: Shohei Hori (Graduate School of Pharmaceutical Sciences, The University of Tokyo)
Hideyuki Yoshida (RIKEN)

Overview talk: Immune tolerance and regulation

Hideyuki Yoshida RIKEN Center for Integrative Medical Sciences

8:30 ~ 9:00, Wednesday, December 7

OD OT06 Overview Talk 06 LIVE (*) Room F: Conference Room A4

Chairpersons: Motoi Yamashita (Department of Pediatrics and Developmental Biology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

Yoshitaka Honda (Kyoto University)

Understanding immune system through human immune-mediated disorders

Motoi Yamashita Laboratory for Transcriptional Regulation, Center for Integrative Medical Sciences, RIKEN, Kanagawa, Japan

8:30 ~ 9:00, Thursday, December 8

OD OT07 Overview Talk 07 LIVE (•) Room B: Civic Hall

Chairpersons: Masato Kubo (Tokyo University of Science/RIKEN Center for Integrative Medical Sciences (IMS), RIKEN Yokohama Institute)

Laura Mackay (University of Melbourne)

Understanding the mechanism of immunological memory

Masato Kubo Research Institute for Biomedical Science, Tokyo University of Science

8:30 ~ 9:00, Thursday, December 8

OD OT08 Overview Talk 08 LIVE (*) Room C: Conference Room A1

Chairpersons: Masaru Ishii (Osaka University Graduate School of Medicine)

Takashi Shichita (Tokyo Metropolitan Institute of Medical Science)

Neuro-immune interaction in brain bioregulation

Takashi Shichita Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

8:30 ~ 9:00, Thursday, December 8

OD OT09 Overview Talk 09 LIVE (*) Room D: Conference Room A2

Chairpersons: Satoko Tahara-Hanaoka (University of Tsukuba)

Hideaki Morita (National Research Institute for Child Health and Development)

Gateway to allergic reactions

Satoko Tahara-Hanaoka Department of Immunology, Faculty of Medicine, Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), R&D Center for Innovative Drug Discovery, University of Tsukuba, Tsukuba-city, Japan

8:30 ~ 9:00, Thursday, December 8

OD OT10 Overview Talk 10 LIVE (*) Room E: Conference Room A3

Chairpersons: Hideki Hara (Asahikawa Medical University)
Akinori Takaoka (Hokkaido University)

Advances in research of innate immune sensors and diseases

Hideki Hara Department of Microbiology and Immunochemistry, Asahikawa Medical University, Asahikawa, Japan / Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan

8:30 ~ 9:00, Thursday, December 8

OD OT11 Overview Talk 11 LIVE (*) Room F: Conference Room A4

Chairpersons: Shinobu Suzuki (Medical Science and Business Liaison Organization, Kyoto University) Shih-Yu Chen (Academia sinica)

Single-cell technologies for System Immunology in a New Era

Shinobu Suzuki Kyoto University, Graduate School of Medicine, Medical Science and Business Liaison Organization

8:30 ~ 9:00, Friday, December 9

OT12 Overview Talk 12 LIVE (*) Room B: Civic Hall

Chairpersons: Yoko Hamazaki (Center for iPS cell Research and Application, Kyoto University)

Kenji Chamoto (Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School)

Immunity among Aging Populations – A New Research Area Emerging from the COVID-19 Pandemic

Yoko Hamazaki Laboratory of Immunobiology, Graduate school of Medicine, Kyoto University, Kyoto, Japan / Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan

8:30 ~ 9:00, Friday, December 9

OD OT13 Overview Talk 13 LIVE (*) Room C: Conference Room A1

Chairpersons: Toshiaki Ohteki (Medical Research Institute, Tokyo Medical and Dental University)

Masaki Miyazaki (Kyoto University)

Recent concepts and advances in developmental branching and inteplay between innate and adaptive immunity

Rvo Morimoto Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany

8:30 ~ 9:00, Friday, December 9

OD OT14 Overview Talk 14 LIVE (*) Room D: Conference Room A2

Chairpersons: Kenji Kabashima (Department of Dermatology, Kyoto University Graduate School of Medicine) Atsushi Kumanogoh (Osaka University)

Advances of cytokine-targeted therapies in inflammatory skin diseases

Tetsuva Honda Department of Dermatology, Hamamatsu University School of Medicine

8:30 ~ 9:00, Friday, December 9

OT15 Overview Talk 15 LIVE (*) Room E: Conference Room A3

Chairpersons: Yumiko Oishi (Nippon Medical School)

Yusuke Endo (Laboratory of Medical Omics Research, KAZUSA DNA RESEARCH INSTITUTE)

Recent advances in immunometabolism research

Masakatsu Yamashita Department of Immunology, Graduate School of Medicine, Ehime University, Ehime, Japan

8:30 ~ 9:00, Friday, December 9

OT16 Overview Talk 16 LIVE (*) Room F: Conference Room A4

Chairpersons: Kenya Honda (Keio University School of Medicine)
Kiyoshi Takeda (Graduate School of Medicine, Osaka University)

Toward the development of defined microbial therapeutics

Kenya Honda Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, JAPAN / RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Japan

Symposium

Program for Symposia

Symposium 01 LIVE (•)

Room A 9:00 ~ 11:50 December 7

So1. Immune response against SARS-CoV-2 will be discussed. Sponsored by International Immunology

Chairpersons: Hisashi Arase (WPI Immunology Frontier Research Center, Osaka University)
Saya Moriyama (National Institute of Infectious Diseases)

OD S01-01

Adaptive responses in infection and vaccination to SARS CoV2 and its variants

Alessandro Sette La Jolla Institute for Immunology

OD S01-02

T cell responses against SARS-CoV-2

9:30~10:00

10:00~10:30

Sho Yamasaki RIMD, IFReC, Osaka University

OD S01-03

Host-pathogen interaction in SARS-CoV-2 infection

Hisashi Arase Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University / Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University

OD S01-04

Broadly neutralizing antibody against SARS-CoV-2 variants

10:30~11:00

Saya Moriyama Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Tokyo, Japan

OD S01-05

Tackling viral infections by human monoclonal antibodies

11:00~11:30 Davide Corti Humabs BioMed SA, A Subsidiary Of Vir Biotechnology, Bellinzona, Switzerland

S01-06 11:30~11:50 Multisystem Inflammatory Syndrome in Children (MIS-C) and Long-COVID: the SARS-CoV-2 Viral Superantigen Hypothesis and autoimmunity

Moshe Arditi Cedars-Sinai Medical Center, Department of Pediatric Infectious Diseases and Immunology, Infectious and Immunological Diseases Research Center, Los Angeles, CA

Symposium 02 LIVE (•)

Room B 9:00 ~ 11:30 December 7

S02. Non-immune cell immunology: JCR-JSI Joint Session

Chairpersons: Masaru Ishii (Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University)
Hiroshi Takayanagi (Graduate School of Medicine, The University of Tokyo)

OD S02-01 9:00~9:30

Landscape of immunological responses to Janus kinase inhibitors in synovial fibroblasts

Haruka Tsuchiya Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

OD S02-02 9:30~10:00 Targeting fibroblasts in inflammatory arthritis

0:00 Adam Croft University of Birmingham, United Kingdom

OD S02-03

Gut pTreg development governed by "microbiota-gut-liver-brain-gut axis"

Takanori Kanai Division of Gastroenterology and Hepatology, Department of Internal Medicin, Tokyo, Japan

OD S02-04

Diversity of thymic stromal cells for T cell repertoire selection

10:30~11:00 Takeshi Nitta Department of Immunology, Graduate School of Medicine, The University of Tokyo



Cellular niches for hematopoietic stem and progenitor cells in the adult bone marrow

Yoshiki Omatsu Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Frontier Biosciences, Osaka University

Symposium 03 LIVE (•)

Room C 9:00 ~ 11:30 December 7

S03. Perspectives of synthetic biology for cancer immunology

Chairpersons: Yuki Kagoya (Aichi Cancer Center Research Institute) Seiichi Ohta (The University of Tokyo)

OD S03-01

VHH antibody as a drug modality: synthetic biologics

9:00~9:30

Kohei Tsumoto School of Engieering. The University of Tokyo

OD S03-02 9:30~10:00

Controlling physicochemical property of synthetic nanoparticles and its application for the detection of immune-related biomarkers

Saiichi Ohta

Seiichi Ohta Institute of Engineering Innovation, School of Engineering, The University of Tokyo, Tokyo, Japan / Department of Bioengineering, School of Engineering, The University of Tokyo, Tokyo, Japan / Department of Chemical System Engineering, School of

Engineering, The University of Tokyo, Tokyo, Japan / JST PRESTO, Tokyo, Japan

OD S03-03

New cancer therapy using photo chemical reaction

10:00~10:30 Mikako Ogawa Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan

OD S03-04

Synthetic immunology to enhance safety and efficacy in adoptive cancer immunotherapy

Yuki Kagoya Division of Immune Response, Aichi Cancer Center Research Institute, Nagoya, Japan / Division of Cellular Oncology,
Department of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Nagoya, Japan

S03-05

10.30~11.00

Synthetic biology approaches in cancer immunology and immunotherapy

11:00~11:30

Naoto Hirano Tumor Immunotherapy Program, Princess Margaret Cancer Centre, Toronto, ON, Canada

Symposium 04 LIVE (•)

Room D 9:00 ~ 11:30 December 7

S04. Introduction to Innovative Science for "Resolution of Inflammation": SFI-JSI Joint Session

Chairpersons: Satoko Arai (Graduate School of Medicine, The University of Tokyo) Yohei Mikami (Keio University School of Medicine)

OD S04-01

Delineation, birth, and self-organization of the intestinal stem cell niche

Ramesh Shivdasani Dana-Farber Cancer Institute and Harvard Medical School, Boston, United States

OD S04-02

Regulation of hypothalamic functions by mirobiota and inflammation

Gerard Eberl Institut Pasteur, Paris, France

S04-03

Pathological inflammatory memories - Immune-neuro interaction shapes the transformation of inflamed tissue -

Kiyoshi Hirahara Department of Immunology, Graduate School of Medicine, Chiba University

OD S04-04

Cell death-induced chronic inflammation and metabolic changes in macrophage

10:35~11:00 Miyako Tanaka Department of Molecular Medicine and Metabolism, Research Institute of Environmental Medicine, Nagoya University, Nagoya



A role of the phagocytic removal system in resolution of inflammation and its therapeutic implication

Satoko Arai Graduate School of Medicine, The University of Tokyo, Japan / The Institute for AIM Medicine, Tokyo, Japan

Symposium 05 LIVE (•)

Room E 8:50 ~ 11:30 December 7

S05. Immune tolerance and regulation: toward a comprehensive understanding of immune and tissue homeostasis: DGFI-JSI Joint Session

Chairpersons: Shohei Hori (Graduate School of Pharmaceutical Sciences, The University of Tokyo) Hideyuki Yoshida (RIKEN)

OD S05-01

mTECs, peripheral tissue-specific antigens, and beyond

8:50~9:20 **Hideyuki Yoshida** RIKEN Center for Integrative Medical Sciences

OD S05-02

9:20~9:50

9.50~10.25

Autoimmune pathology caused by the abnormal function of thymic epithelial cells

Mitsuru Matsumoto Institute for Enzyme Research, Tokushima University

OD S05-03

I-Ag7 β56/57 polymorphisms regulate non-cognate negative selection to CD4 T cell orchestrators of type-1 diabetes

Eric Huseby University of Massachusetts Medical School, Worcester, MA USA

S05-04 10:25~10:55 Molecular control of Treg cell differentiation and function by Foxp3 and TCR signals

Shohei Hori Graduate School of Pharmaceutical Sciences, The University of Tokyo

S05-05 10:55~11:30 Nonlymphoid-tissue Treg cells in man and mouse

Markus Feuerer Leibniz Institute for Immunotherapy, Division of Immunology, Regensburg, Germany / Chair for Immunology, University of Regensburg, Regensburg, Germany

Symposium 06 LIVE (•)

Room F 9:00 ~ 11:30 December 7

S06. From Pathology to Physiology: Understanding immune system through human immune-mediated disorders

Chairpersons: Motoi Yamashita (Department of Pediatrics and Developmental Biology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

Yoshitaka Honda (Kyoto University)

OD S06-01 9:00~9:30

Inborn errors of cell death - a novel concept in human autoinflammatory diseases

Hirotsugu Oda CECAD, University of Cologne, Cologne, Germany

\$06-02 9:30~10:00 Model mice of human inborn errors of immunity showing mixed manifestations of autoinflammation, immunodeficiency and/or autoimmunity

Tsuneyasu Kaisho Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan

S06-03 10:00~10:30

Unwinding the molecular pathogenesis of a novel inherited immunodysregulatory disorder caused by loss-of-function mutations in DExD/H box helicase SBN02

Kazuyuki Meguro Laboratory of Clinical Immunology and Microbiology, Division of Intramural Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, USA. / Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan.

S06-04 10.30~11.00 IKAROS and AIOLOS deficiency in PID

Hye Sun Kuehn Immunology Service, Department of Laboratory Medicine, NIH Clinical Center, Bethesda, MD, USA.

S06-05 11.00~11.30 Interference of Bc111a-Bc111b heterodimer function by BCL11B N441K mutant during neurogenesis and thymopoiesis

Kazuki Okuvama Laboratory for Transcriptional Regulation, IMS, RIKEN Yokohama

Symposium 07 LIVE (•)

Room B 9:00 ~ 11:30 December 8

S07. Recent advances in immunological memory: ASI-JSI Joint Session

Chairpersons: Masato Kubo (Tokyo University of Science/RIKEN Center for Integrative Medical Sciences (IMS), RIKEN Yokohama Institute)

Laura Mackay (University of Melbourne)

S07-01

9:00~9:30

9:30~10:00

Germinal center B cell selection and survival regulated by optimal BCR signaling

Takeshi Inoue Immunology Frontier Research Center, Osaka University, Osaka, Japan

S07-02

SARS-CoV-2 booster vaccination rescues attenuated IgG1 memory B cell response in patients with primary antibody deficiency syndromes

Brian Laidlaw Washington University in St. Louis, St. Louis, MO United States of America

S07-03 10.00~10.30 Generation and maintenance of epithelial-tropic CD8⁺ T cells in the peripheral tissues and tumor

Shiki Takamura Department of Immunology, Kindai University Faculty of Medicine, Osaka, Japan

S07-04 10:30~11:00 Runx3 drives a tissue-residency program that is absent in CD4+ T cells

Laura Mackay The Peter Doherty Institute for Infection and Immunity, The University of Melbourne

S07-05

11:00~11:30

Development and Maintenance of Tissue resident memory T cells

Donna Farber Columbia University, New York, NY USA

Symposium 08 LIVE (•)

Room C 9:00 ~ 11:30 December 8

S08. Neuro-immune and inflammatory interaction: DGFI-JSI Joint Session

Chairpersons: Masaru Ishii (Osaka University Graduate School of Medicine) Takashi Shichita (Tokyo Metropolitan Institute of Medical Science)

S08-01

Lipid metabolism triggering neural repair in brain ischemia

9.00~9.26 Takashi Shichita Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan S08-02

9:26~10:02

Stroke induces a cerebral tissue-resident T cell population which modulates long-term

outcome

Arthur Liesz Institute for Stroke and Dementia Research, LMU University, Munich, Germany

S08-03

Identification of a neuron-associated macrophage in the liver

10.02~10.28 Masaru Ishii Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University

OD S08-04

10:28~11:04

Specification of CNS macrophage subsets occurs postnatally in defined niches

Marco Prinz Institute of Neuropathology, Faculty of Medicine, University of Freiburg, Freiburg, Germany / Center for Basics in

NeuroModulation (NeuroModulBasics), Faculty of Medicine, University of Freiburg, Freiburg, Germany / Signalling Research

Centres BIOSS and CIBSS, University of Freiburg, Freiburg, Germany

S08-05

Physiological and pathological functions of microglia

11:04~11:30 Hiroaki Wake Department of Anatomy and Molecular Cell Biology Nagoya University Graduate School of Medicine

Symposium 09 LIVE (•)

Room D 9:00 ~ 11:30 December 8

S09. Recent Advances in Allergic Research: JSI-JSA Joint Session

Chairpersons: Satoko Tahara-Hanaoka (University of Tsukuba) Hideaki Morita (National Research Institute for Child Health and Development)

S09-01 OD

The Importance of Epithalial Barriers in Allergic and Autoimmune Diseases

9:00~9:30 Cezmi Akdis Swiss Institute of Allergy and Asthma Research, Davos, Switzerland

S09-02 9:30~10:00 Environmental factors trigger allergic inflammation through disruption/activation of epithelial cells

Hideaki Morita Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, Tokyo, Japan

S09-03

Clec10a regulates mite-induced dermatitis

10:00~10:30 Kazumasa Kanemaru Department of Immunology, Faculty of Medicine, University of Tsukuba / Cellular Genetics Programme, Wellcome

Sanger Institute

S09-04

Homeostatic mechanisms of stratum corneum as niche for skin microbiota

10:30~11:00

Department of Dermatology, Keio University School of Medicine / Laboratory for Skin Homeostasis, RIKEN Center for

Integrative Medical Sciences

S09-05

11:00~11:30

Innate IL-13 is a skin 'niche factor' necessary for dermal dendritic cell differentiation and function

Franca Ronchese Malaghan Institute of Medical Research, Wellington, New Zealand

S10. Advances in research of innate immune sensor and diseases : US-Japan Immunology Program Co-organized Session

Chairpersons: Hideki Hara (Asahikawa Medical University)
Akinori Takaoka (Hokkaido University)

OD S10-01

9:00~9:30

Inflammasome-mediated exacerbation of infectious diseases and its application

Hideki Hara Department of Microbiology and Immunochemistry, Asahikawa Medical University, Asahikawa, Japan / Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan

OD S10-02

Decoding Cell Death

9:30~10:00 Carla Rothlin Yale University, New Haven, CT, USA

OD \$10-03

Novel sensing mechanism of a damage signature for antiviral defense

Akinori Takaoka Division of Signaling in Cancer and Immunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

OD S10-04

Tau activates microglia via the PQBP1-cGAS-STING pathway to promote brain inflammation

Hitoshi Okazawa Department of Neuropathology, Tokyo Medical and Dental University

OD S10-05

11:00~11:30

Understanding Microbiota-Host Innate Immunity Interactions in Crohn's Disease

Gabriel Nunez University of Michigan Medical School, Ann Arbor, Michigan, USA

Symposium 11 LIVE (•)

Room F 9:00 ~ 11:30 December 8

S11. Single-cell technologies for System Immunology in a New Era

Chairpersons: Shinobu Suzuki (Medical Science and Business Liaison Organization, Kyoto University) Shih-Yu Chen (Academia sinica)

OD

\$11-01 9:05~9:33 Prioritized single-cell proteomics reveals molecular and functional polarization across primary macrophages

Nikolai Slavov Departments of Bioengineering, Northeastern University, Cambridge, Boston, USA

\$11-02 9:33~10:01 Single cell RNA sequencing of antigen-presenting cells in inflammatory skin diseases

Satoshi Nakamizo Department Dermatology, Kyoto University Graduate School of Medicine

S11-03 10:01~10:29

Single Cell Systems-Structured View of Immune Responses

Shih-Yu Chen Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

S11-04 10:29~10:57 Deciphering pathogen-specific T cell responses to a clonotype resolution

Xiuyuan Lu Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Suita, Japan

OD \$11-05

Single-cell Sequencing of the B Cell Transcriptome and Repertoire Reveals Divergent Vaccine Responses to SARS-CoV-2 S1 and S2

Tobias V. Lanz Stanford University, Division of Rheumatology and Immunology, Stanford, CA, USA

S12. The impact of aging and senescence on Immunity: US-Japan Immunology Program Co-organized Session

Chairpersons: Yoko Hamazaki (Center for iPS cell Research and Application, Kyoto University)

Kenji Chamoto (Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School)

OD S12-01

9:00~9:30

Spermidine improves defective anti-tumor immunity in aged mice by direct activation of fatty acid oxidation in CD8+ T cells

Kenji Chamoto Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Kyoto, Japan

\$12-02 9:30~10:00 Escape from senescence surveillance by PD-L1-PD1 immune checkpoint and its blockade ameliorates various senescence-associated disorders

Makoto Nakanishi Division of Cancer Cell Biology, Institute of Medical Science, University of Tokyo

OD S12-03

Immune aging in mice and humans

10:00~10:30 Maxim Artyomov Washington University School of Medicine (St Louis)

\$12-04 10:30~11:00 Age-related and individual heterogeneity of immune responses to SARS-CoV-2 mRNA vaccine

Yoko Hamazaki Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan / Laboratory of Immunobiology, Graduate school of Medicine, Kyoto University, Kyoto, Japan

S12-05

Immune Surveillance of Senescent Cells

11:00~11:30

Scott Lowe Howard Hughes Medical Institute / Cancer Biology & Genetics Program, Sloan Kettering Institute, Memorial Sloan Kettering Cancer Center. New York. NY USA

Symposium 13 LIVE (•)

Room C 9:00 ~ 11:30 December 9

S13. Developmental branching and interplay between innate and adaptive immunity: DGFI-JSI Joint Session

Chairpersons: Toshiaki Ohteki (Medical Research Institute, Tokyo Medical and Dental University)
Masaki Miyazaki (Kyoto University)

OD S13-01

9:00~9:30

Emergence of adaptive lymphoid lineages in vertebrates

Ryo Morimoto Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany

OD S13-02 9:30~10:00 To B (T), or not to B (T). That is the question. What drives the lineage choice of the adaptive or innate immune cells?

Masaki Miyazaki Institute for Life and Medical Sciences, Dept. Immunology

OD S13-03 10:00~10:30 Deconvolution of hematopoiesis by Polylox barcoding

Hans-Reimer Rodewald Department for Cellular Immunology, German Cancer Research Center, Heidelberg, Germany

\$13-04 10:30~11:00 Immune Privileged Stem Cells, Niche, and Tregs—New "Stem-Immunology" for Transplantation, Injury, and Cancer

Joji Fujisaki Center for Inflammation Research, Division of Clinical Immunology, Beth Israel Deaconess Medical Center, Harvard Medical School / Columbia Center for Translational Immunology, Columbia University College of Physicians and Surgeons



B cell: an amplifier of myeloid cell production triggered by infection

Masashi Kanayama Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan

Symposium 14 LIVE (•)

Room D 9:00 ~ 11:30 December 9

S14. Recent advances in clinical application of cytokine/JAK research: **KAI-JSI Joint Session**

Chairpersons: Kenii Kabashima (Department of Dermatology, Kyoto University Graduate School of Medicine) Atsushi Kumanogoh (Osaka University)

S14-01

Cytokine signaling: Bench to bedside and back.

9:00~9:30

John O'shea National Institute of Health

S14-02 9:30~10:00

Sensory neuronal STAT3 is critical for IL-31 receptor expression and inflammatory itch

Takaharu Okada RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

S14-03 10:00~10:30 Targeting Angio-lymphokine for Autoimmune Diseases

Wan-Uk Kim Center for Integrative Rheumatoid Transcriptomics and Dynamics. The Catholic University of Korea, Seoul, Korea / Department of Internal Medicine, The Catholic University of Korea, Seoul, Korea

S14-04 10:30~11:00 Severe COVID-19 immunopathology is mediated by type I IFNs and driven by activation of cGAS-STING

Michel Gilliet Department of Dermatology, Lausanne University Hospital, Switzerland

S14-05 11:00~11:30 Recent advances in epithelial cytokine-targeted therapy in asthma

Hiroshi Nakajima Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan

Symposium 15 LIVE (•)

Room E 9:00 ~ 11:30 December 9

S15. Recent Advances in immunometabolism

Chairpersons: Yumiko Oishi (Nippon Medical School)

Yusuke Endo (Laboratory of Medical Omics Research, KAZUSA DNA RESEARCH INSTITUTE)

S15-01

T cell metabolic repertoire - a complex endpoint

9:00~9:30

Christoph Hess University of Cambridge, Cambridge, UK / University of Basel, Switzerland

S15-02 9.30~10.00 Regulation of brain lipid metabolism after ischemic stroke by brain immune cells

Minako Ito Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

S15-03

Krebs Cycle reborn in macrophages

10.00~10.30 Luke O'Neill School of Biochemistry and Immunology

S15-04

Regulation of social behavior by ILC3s

10:30~11:00

Michio Miyajima Keio University School of Medicine, Tokyo, Japan / RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Kanagawa, Japan

S15-05

A novel mode of autophagy terminates STING signalling

11:00~11:30 Tomohiko Taguchi Tohoku University

S16. Microbiota and the host immune system: US-Japan Immunology Program Co-organized Session

Chairpersons: Kenya Honda (Keio University School of Medicine)
Kiyoshi Takeda (Graduate School of Medicine, Osaka University)

S16-01

Cellular senescence and cancer: a gut microbial connection

9:00~9:30

Eiji Hara Research Institute for Microbial Diseases, Osaka University, Suita JP

S16-02

TCR-Vyo usage distinguishes pro- and anti-tumor intestinal yo T cell subsets

9:30~10:00 Mucida Dani

Mucida Daniel Laboratory of Mucosal Immunology, The Rockefeller University, New York, NY, USA. / Department of Medicine, Division of Digestive and Liver Diseases, Columbia University, New York, NY, USA. / Department of Medicine and Department of Biomedical Sciences, Cedars-Sinai Cancer Institute, Cedars-Sinai Medical Center, Los Angeles, CA, USA. / Howard Hughes

Medical Institute, The Rockefeller University, New York, NY, USA.

OD S16-03

Identification of bacterial metabolites that exacerbate intestinal inflammation in Crohn's disease patients

Kiyoshi Takeda Osaka University Graduate School of Medicine / Immunology Frontier Research Center, Osaka University

OD S16-04

SARS-CoV-2 and vaccine-induced immunity

10:30~11:00 Carolina Lucas Department of Immunobiology, Yale University School of Medicine, New Haven, CT, USA

OD S16-05

11:00~11:30

Impact of gut microbial metabolites short-chain fatty acids on the host immunity and physiology

Hiroshi Ohno Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

Workshop

○ : Presenter

Oral

December 7

WS01 T cell development (thymus and homeostasis)

15:30 ~ 16:45 Room A

Chairpersons: Ichiro Taniuchi, Eri Ishikawa

Despite of a long history of the primary T cell development in the thymus, important questions remain elusive in this research area. For instance, precise molecular mechanism for "positive and negative selection based on self vs non-self recognition is still unraveled. On the contrary, new questions arose in the filed such as how age-related or environmental changes affect T cell development. The "T cell development" session is organized to share and discuss results of current studies with aiming to advance our understanding of the regulatory mechanisms of primary T cell development in a steady-state. The topics in the session include selection processes, T cell repertoire formation, mechanisms to establish central tolerance, roles of thymic epithelium cells and dendritic cells, cellular signaling from TCR, transcriptional and epigenetic regulation as well as development of new technology and materials.

WS01-01-O/P	Notch signaling triggers T-lineage program via Tcf7-dependent and -independent mechanisms Ken-Ichi Hirano, Katsuto Hozumi, Hiroyuki Hosokawa Department of Immunology, Tokai University School of Medicine, Kanagawa, Japan
WS01-02-O/P	Phosphorylation of Runx proteins controls thymocyte fate Chihiro Ogawa, Kazuki Okuyama, Satoshi Kojo, Sawako Muroi, Ichiro Taniuchi Riken, Center for Integrative Medical Sciences, Laboratory for Transcriptional Regulation, Yokohama, Japan
WS01-03-O/P	THEMIS acts in the cytoplasm and nucleus to regulate T cell differentiation Kiyokazu Kakugawa, Hilde Cheroutre Laboratry for ImmuneCrosstalk, RIKEN Center for Integrative Medical Science
WS01-04-O/P	Induction of central tolerance by arginine methylation Ryunosuke Muro, Takeshi Nitta, Hiroshi Takayanagi Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo
WS01-05-O/P	Isolation of thymic self-reactive T cells with differentiation preference for regulatory T cells Ryoji Kawakami ^{1, 2)} , Shimon Sakaguchi ^{1, 2)} Thistitute for Life and Medical Sciences, Kyoto University, Kyoto, Japan, Planmunology Frontier Research Center, Osaka University, Osaka, Japan
WS01-06-O/P	Excess proliferation and activation of self-reactive memory-phenotype CD4 ⁺ T lymphocytes are tonically inhibited by regulatory T cells in steady state Jing Li, Ziying Yang, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Yuko Okuyama, Naoto Ishii, Takeshi Kawabe Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan.
WS01-07-O/P	Long-term caloric restriction ameliorates T cell immunosenescence in mice Sachi Tanaka, Katsunori Endo Shinshu University, Nagano, Japan

WS02 Anti-tumor Effectors, Ag presentation

15:30 ~ 16:45 Room B

Chairpersons: Keiko Udaka, Toshihiko Torigoe

This session focuses on effector cells in anti-tumor responses, antigen presentation by MHC molecules, and immune responses in the tumor microenvironment. Despite proinflammatory tissue destructions and the presence of tumor antigens, immune responses in the tumors tend to be attenuated by the suppressive local environment. Effector cells such as CD8 and CD4 T cells, $\gamma\delta$ T cells, and NKT eliminate tumor cells and contribute substantially to shaping the local immune responses. Various innate lymphoid cells, DCs, macrophages, epithelial cells, and tumor cells also affect the outcome. We would like to discuss the dynamic nature of the tumor microenvironment. The latest development in immunization methods will also be presented.

WS02-02-O/P	T-Cell Rejuvenation: a novel approach to partially reprogram T cells to improve their immunotherapeutic properties
	 Raul Vizcardo, Yasuhiro Yamazaki, Takuya Maeda, Yin Huang, Naritaka Tamaoki, Burak Kutlu, Jessica Fioravanti, Shobha Potluri, Nicholas P. Restifo Lyell Immunopharma Inc, South San Francisco, CA, USA
	Lyen inimunophanna inc, South San Francisco, CA, USA
WS02-03-O/P	scRNAseq analysis revealed that activation of progenitor-like $T_{\rm ex}$ population in tumor elicited a strong effector function in the later population in <i>Socs3</i> cKO mice
	 Setsuko Mise-Omata, Akihiko Yoshimura Keio University School of Medicine, Department of Microbiology and Immunology, Tokyo, JAPAN
WS02-04-O/P	CD69 regulates anti-tumor CD8T cell responses
	Ryo Nasu, Yangsong Wang, Yukihiro Endo, Ichita Hasegawa, Tatsuya Ueno, Yukiyoshi Mita, Shinichiro Motohashi, Toshinori Nakayama, Motoko Y. Kimura Graduate school of Medicine, Chiba University
WS02-06-O/P	Antitumor effect of anti-HLA-F antibody on colon cancer in patient-derived xenografts (PDX) model
_	Noriko Ouji-Sageshima, Masahiro Kitabatake, Ryutaro Furukawa, Toshihiro Ito Department of Immunology, Nara Medical University, Nara, Japan
WS02-07-O/P	Consensus molecular subtypes specific roles of $\gamma\delta$ T cells in colorectal cancer
	○ Toshiyasu Suzuki ^{1, 2)} , Anna Kilbey ^{1, 2)} , Rachel Ridgway ¹⁾ , Hannah Hayman ²⁾ , Ryan Bryne ³⁾ , Michael Verzi ⁴⁾ , Simon Leedham ⁵⁾ , Philip Dunne ³⁾ , Joanne Edwards ²⁾ , Adrian Hayday ⁶⁾ , Owen Sansom ^{1, 2)} , Seth Coffelt ^{1, 2)} ¹¹Cancer Research UK Beatson Institute, Glasgow, UK, ²¹Institute of Cancer Sciences, University of Glasgow, Glasgow, UK, ³¹School of Medicine Dentistry and Biomedical Sciences, Queen's University, Belfast, UK, ⁴¹Department of Genetics, Human Genetics Institute of New Jersey, Rutgers Cancer Institute of New Jersey, Rutgers University, New Brunswick, New Jersey, USA, ⁵¹Nuffield Department of Medicine, Oxford University, Oxford, UK, ⁵¹The Francis Crick Institute, London, UK
WS02-08-O/P	Alpha-galactosylceramide-loaded antigen-presenting cells induce direct cytotoxicity and adjuvant effects of induced pluripotent stem cell-derived natural killer T cells
	○ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Momoko Okoshi ¹⁾ , Midori Kobayashi ¹⁾ , Munechik Yamaguchi ¹⁾ , Hiroko Okura ¹⁾ , Masami Kawamura ³⁾ , Tomonori Iyoda ³⁾ , Kanako Shimizu ³⁾ , Shin-Ichiro Fujii ³⁾ , Shinichiro Motohashi ²⁾ , Haruhiko Koseki ¹ Di Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Science, Diba University, Di Laboratory for Immunotherapy, RIKEN Center for Integrative Medical Science
WS02-20-O/P	Serine threonine kinase 24 (STK24) mediates immune evasion signals in tumors by inducing multiple
	immunosuppressive molecules
	Aya Misawa ^{1,2)} , Shigeki Ohta ^{1,2)} , Ryotaro Imagawa ²⁾ , Yuki Katoh ^{2,3)} , Hidetoshi Sumimoto ²⁾ , Naomi Goto-Matsumoto ⁴⁾ , Kenta Nakamura ⁵⁾ , Ryuhei Okuyama ⁵⁾ , Yutaka Kawakami ^{1,2)} 1)Department of Immunology, School of Medicine, International University of Health and Welfare, Chiba, Japan, ²⁾ Division of Cellular Signaling,

Institute for Advanced Medical Research, Keio University School of Medicine, Tokyo, Japan, ³⁾Division of Anatomical Science, Department of Functional Morphology, Nihon University School of Medicine, Tokyo, Japan, ⁴⁾Center for Basic Medical Research, School of Medicine, International University of Health and Welfare, Chiba, Japan, ⁵⁾Department of Dermatology, Shinshu University School of Medicine

WS02-27-O/P

Innate immune components critical to the effect of oncolytic virus therapy with HSV-1

○ Shumpei Uchida¹⁾, Tsukasa Seya²⁾, Shizuo Akira³⁾, Ryutaro Fukui⁴⁾, Kensuke Miyake⁴⁾, Tomoki Todo⁵⁾, Norimitsu Kadowaki¹⁾

¹⁾Division of Hematology, Faculty of Medicine, Kagawa Univ., Kagawa, Japan, ²⁾Nebuta Research Institute for Life Sciences, Aomori Univ., Aomori, Japan, ³⁾Immunology Frontier Research Center, Osaka Univ., Osaka, Japan, ⁴⁾Division of Infectious Genetics, Institute of Medical Science, Univ. Tokyo, Tokyo, Japan, ⁵⁾Division of Innovative Cancer Therapy, Institute of Medical Science, Univ. Tokyo, Tokyo, Japan

WS03 Infection and Immunity I

15:30 ~ 16:45 Room C

Chairpersons: Masahiro Yamamoto, Sujin Kang

Immunity against infection of pathogens is important for host survival. Proinflammatory cytokines are produced in innate immune cells. Some of the cytokines subsequently activate adaptive immune cells to mediate cellular and humoral responses. Interferon-γ, which is produced by innate and adaptive immune cells such as innate lymphoid cells, natural killer cells, Th1 cells and CD8+ T cells further activates cell-autonomous immunity in pathogen-infected cells to eradicate the microbes. Thus, innate, adaptive and cell-autonomous immunity consist of host defense system. In this session, we selected studies in terms of host defense mechanism, cell surface receptors, immune regulation, cytokine induction and etc in immunity against bacteria, parasites and fungi in particular.

WS03-01-O/P

Porphyromnas gingivalis infection triggers enhancement of severity for EAE following inflammasome activation in macrophages

O Tokuju Okano, Toshihiko Suzuki

Graduate School of Medical and Dental Sciences Tokyo Medical and Dental University (TMDU)

WS03-02-O/P

The effects of malaria on bone marrow hematopoietic stem cell niches

Michelle Sue Jann Lee^{1, 2)}, Julia Matsuo-Dapaah¹⁾, Camila Del Rosario Zorrilla¹⁾, Ken J. Ishii^{2, 3)}, Cevayir Coban^{1, 2)}

¹⁾Division of Malaria Immunology, Institute of Medical Science, The University of Tokyo, Japan, ²⁾International Vaccine Design Center (VDesC), The Institute of Medical Science, The University of Tokyo, Japan, ³⁾Division of Vaccine Science, Institute of Medical Science, The University of Tokyo, Japan

WS03-03-O/P

IFN-y induced GTPases • GBPchr5 play an important role for anti-Toxoplasma host defense

O Ayumi Kuratani¹⁾, Masahiro Yamamoto^{1, 2, 3)}

¹⁾Department of Immunoparasitology, RIMD, Osaka University, ²⁾Laboratory of Immunoparasitology, IFReC, Osaka University, ³⁾CIDER, Osaka University

WS03-04-O/P

LILRB3 and LILRA6 recognize bacteria in an allele-specific manner

○ Gen Hasegawa¹⁾, Kouyuki Hirayasu^{1, 2, 3)}, Yifan Li³⁾, Hisashi Arase^{4, 5)}, Masaya Yamaguchi⁶⁾, Shigetada Kawabata⁷⁾, Rikinari Hanayama^{1, 2, 3, 8)}

¹⁾Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, Ishikawa, Japan, ²⁾Advanced Preventive Medical Sciences Research Center, Kanazawa University, Ishikawa, Japan, ³⁾Department of Immunology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, Ishikawa, Japan, ⁴⁾Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁵⁾Laboratory of Immunochemistry, Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁶⁾Bioinformatics Unit, Graduate School of Dentistry, Osaka University, Osaka, Japan, ⁸⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University, Ishikawa, Japan

WS03-05-O/P

A novel role of GRIM-19 in cytokine production in macrophages upon mycobacterial infection

○ Giichi Takaesu^{1, 2, 3)}, Tomomi Kurane²⁾, Masayuki Umemura^{1, 2, 3)}, Goro Matsuzaki^{1, 2, 3)}

¹⁾Tropical Biosphere Research Center, University of the Ryukyus, ²⁾Department of Host Defense, Graduate School of Medicine, University of the Ryukyus, ³⁾Advanced Medical Research Center, Faculty of Medicine, University of the Ryukyus

WS03-06-O/P

The intracellular pathogen *Francisella tularensis* escapes from adaptive immunity by metabolic adaptation

○ Kensuke Shibata^{1, 2, 3)}, Takashi Shimizu⁴⁾, Emi Ito²⁾, Francois Legoux⁵⁾, Sho Yamasaki^{2, 6, 7, 8)}, Olivier Lantz⁵⁾, Masahisa Watarai⁴⁾

¹⁾Department of Microbiology and Immunology, Yamaguchi University Graduate School of Medicine, Ube, Japan, ²⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ³⁾Department of Ophthalmology, Graduate School of Medical Sciences, Kyushu University, ⁴⁾Joint Faculty of Veterinary Medicine, Laboratory of Veterinary Public Health, Yamaguchi University, Ube, Japan, ⁵⁾INSERM U932, PSL University, Institut Curie, Paris, France; Laboratorie d'immunologie clinique, Institut Curie, Paris, France; Centre d'investigation Clinique en Biothérapie, Institut Curie (CIC-BT1428), Paris, France, ⁶⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Suita, Japan, ⁷⁾Division of Molecular Design, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ⁸⁾Division of Molecular Immunology, Medical Mycology Research Center, Chiba University, Chiba, Japan

WS03-07-O/P

Immunological mechanism for reactivated cryptococcosis in persistently infected mice after treatment with FTY720

○ Michiko Yoshida¹⁾, Nana Nakahata²⁾, Takeshi Shinomiya²⁾, Hayato Sato³⁾, Ko Sato^{2,4)}, Jun Kasamatsu⁴⁾, Hiromasa Tanno⁵⁾, Emi Kanno⁵⁾, Keiko Ishii²⁾, Kazuyoshi Kawakami²⁾

¹⁾Department of Pediatrics, Tohoku University Graduate School of Medicine, Sendai, Miyagi, Japan, ²⁾Department of Medical Microbiology, Mycology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Miyagi, Japan, ³⁾Department of Plastic and Reconstructive Surgery, Tohoku University Graduate School of Medicine, Sendai, Miyagi, Japan, ⁴⁾Department of Intelligent Network for Infection Control, Tohoku University Graduate School of Medicine, Sendai, Miyagi, Japan, ⁵⁾Department of Translational Science for Nursing, Tohoku University Graduate School of Medicine, Sendai, Miyagi, Japan

WS03-08-O/P

Immune activating receptors specific for variant surface antigens of *Plasmodium falciparum*

Akihito Sakoguchi¹⁾, Samuel Chamberlain²⁾, Matthew Higgins²⁾, Shiroh Iwanaga¹⁾, Hisashi Arase^{3, 4, 5)}

¹⁾Department of Molecular Protozoology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²⁾Department of Biochemistry, University of Oxford, Oxford, UK, ³⁾Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁴⁾Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁵⁾Center for Infectious Disease Education and Research, Osaka University, Osaka, Japan

WS03-09-O/P

Dermanyssus gallinae suppressively modulate host immune responses during infestation

O Sotaro Fujisawa^{1,2)}, Shiro Murata^{2,3)}, Masayoshi Isezaki²⁾, Takumi Sato⁴⁾, Eiji Oishi⁴⁾, Akira Taneno⁴⁾, Naoya Maekawa³⁾, Tomohiro Okagawa³⁾, Satoru Konnai^{2,3)}, Kazuhiko Ohashi^{2,3,5)}

¹⁾Department of Molecular Genetics, Graduate School of Medical Science, Kanazawa University, ²⁾Department of Disease Control, Faculty of Veterinary Medicine, Hokkaido University, ³⁾Department of Advanced Pharmaceutics, Faculty of Veterinary Medicine, Hokkaido University, ⁴⁾Vaxxinova Japan K.K., ⁵⁾International Affairs Office, Faculty of Veterinary Medicine, Hokkaido University

WS04 Dendritic cells and macrophages-1: Immune regulation and disease perspectives

15:30 ~ 16:45 Room D

Chairpersons: Nobuyuki Onai, Chigusa Oda

Dendritic cells (DCs) and macrophages are present in all tissues. They regulate immune responses, development, and tissue homeostasis, participating in the initiation and progression of various diseases. They express surface receptors or sensors that recognize extrinsic stimuli, regulate inflammatory cytokine production, and display multiple functions, contributing to immune responses, inflammation, and disease. In this session, we will discuss the activation of dendritic cell and macrophage lineages and their role in immune regulation, homeostasis, and disease progression. We welcome active and constructive discussion to extend insight into the functions of DCs and macrophages.

WS04-01-O/P

Dendritic cells regulate peripheral T cell survival through the CD47-SIRP α signaling

○ Yasuyuki Saito¹¹, Satomi Komori¹,²¹, Hiroki Yoshida¹¹, Risa Sugihara¹¹, Tomoko Takai¹,²¹, Takenori Kotani¹¹, Yoji Murata¹¹, Takashi Matozaki¹,²²

¹⁾Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ²⁾Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan

WS04-03-O/P	Characterization of tissue macrophages involved in the pathogenesis of type I interferonopathy Taku Sato ¹ , Toshiaki Ohteki ¹ , Takeshi Namiki ² Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, Department of Dermatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan.
WS04-04-O/P	Palladium-induced association of inter-MHC class I is involved in development of metal allergy Koyu Ito ¹⁾ , Masato Kosuge ¹⁾ , Yuri Takeda ²⁾ , Kouetsu Ogasawara ¹⁾ Department of Immunobiology, Institute of Development, Aging, and Cancer, Tohoku University, ²⁾ Division of Oral and Maxillofacial Surgery, Department of Disease Management Dentistry, Tohoku University Graduate School of Dentistry
WS04-06-O/P	Endosomal abnormalities in dendritic cells cause autoimmune liver diseases Shin-Ichiroh Saitoh ¹⁾ , Kenichi Harada ²⁾ , Yoshiko Mori-Saitoh ¹⁾ , Ge-Hong Sun-Wada ³⁾ , Tamami Denda ⁴⁾ , Yasunori Ota ⁴⁾ , Hiroshi Sagara ⁵⁾ , Yuji Watanabe ⁵⁾ , Yoh Wada ⁶⁾ , Kensuke Miyake ^{1,7)} Division of Infectious Genetics, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Japan, Department of Human Pathology, Kanazawa University School of Medicine, Kanazawa, Japan., Department of Biochemistry, Faculty of Pharmaceutical Sciences, Doshisha Women's College, Kohdo, Kyotanabe, Kyoto Japan., Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, Tokyo Japan., Division of Biological Science, Institute of Scientific and Industrial Research, Osaka University, Ibaraki, Osaka, Japan., Laboratory of Innate Immunity, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan.
WS04-08-O/P	Exposure to Multi-Wall Carbon Nanotubes Promotes Fibrous Proliferation by Production of Matrix Metalloproteiase-12 via NF-KB Activation in Chronic Peritonitis Takaaki Tsunematsu, Rieko Arakaki, Mami Sato, Kunihiro Otsuka, Naozumi Ishimaru Department of Oral Molecular Pathology, Tokushima University Graduate School of Biomedical Sciences
WS04-11-O/P	A study of the effect of high-fat diet intake on microglia functional activity in APPNL-G-F/NL-G-F Alzheimer's disease model mice Shuhan Yang, Hirofumi Miyazaki, Yuji Owada Department of Organ Anatomy, Graduate School of Medicine, Tohoku University, Sendai, Japan
WS04-13-O/P	Progesterone prevents murine miscarriage by suppressing the immunostimulatory activity of macrophage Yasuyuki Negishi ^{1, 2)} , Hajime Ino ^{1, 2)} , Yumi Horii ^{1, 2)} , Eri Koike ¹⁾ , Yoshio Shima ³⁾ , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾ Department of Obstetrics and Gynecology, Nippon Medical School, Tokyo, Japan, ³⁾ Department of Pediatrics, Nippon Medical School Musashikosugi Hospital, Kanagawa, Japan
WS04-16-O/P	Intranasal administration of ceramide liposomes inhibits ragweed pollen-induced allergic rhinitis by targeting CD300f Ayako Kaitani ¹ , Takuma Ide ^{1, 2} , Kumi Izawa ¹ , Tomoaki Ando ¹ , Akie Maehara ¹ , Lisa Yamamoto ^{1, 3} , Yasuharu Kume ^{1, 4} ,

, 4) Hexing Wang^{1,5)}, Koji Tokushige^{1,5)}, Nobuhiro Nakano¹⁾, Ko Okumura¹⁾, Jiro Kitaura¹⁾

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾Department of Otorhinolaryngology, Juntendo University Graduate School of Medicine, ³⁾Juntendo University School of Medicine (5th year medical student), ⁴⁾Department of Ophthalmology, Juntendo University Urayasu Hospital, ⁵⁾Department of Science of Allergy and Inflammation

WS05 Innate lymphocytes

15:30 ~ 16:45 Room E

Chairpersons: Shin-ichiro Fujii, Naoko Satoh-Takayama

Recent advances in the analysis of innate lymphocytes (ILCs, MAIT, NKT, NK and $\gamma\delta T$ cells) have rapidly deepened our understanding of this field. The innate lymphocytes have a variety of functions; they act as direct effector cells in some cases, while in other cases, especially under pathological conditions, they may exhibit indirect immunomodulatory effect on other immune responses. In this session, we would like to focus on the immunological mechanisms involved in their differentiation and in the pathogenesis of various diseases in order to understand the function or the role of innate lymphocytes in detail. In addition, therapeutic effects on cancer, infectious diseases, and autoimmune diseases will be discussed. We look forward to a lively discussion.

WS05-01-O/P

Self-antigen for mucosal-associated invariant T (MAIT) cells

○ Emi Ito^{1,2)}, Ami Takeyama^{1,2)}, Shotaro Mori^{1,2)}, Kensuke Shibata³⁾, Eri Ishikawa^{1,2)}, Masamichi Nagae^{1,2)}, Sho Yamasaki^{1,2)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ²⁾Immunology Frontier Research Center, Osaka University, Suita, Japan, ³⁾Department of Microbiology and Immunology, Graduate School of Medicine, Yamaguchi University, Ube, Japan

WS05-03-O/P

Elucidation of the role of C1orfX in natural killer cells

O Elfira Amalia Deborah^{1, 2)}, Tsukasa Nabekura^{1, 3, 4)}, Akira Shibuya^{1, 3, 4)}

¹⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan, ²⁾Doctoral Program in Medical Science, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, ³⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, ⁴⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan

WS05-05-O/P

Caloric restriction induces cellular quiescence in hepatic ILC1s

Megumi Tatematsu¹⁾, Akane Fuchimukai¹⁾, Shunsuke Takasuga¹⁾, Tsukasa Nabekura²⁾, Akira Shibuya²⁾, Takashi Ebihara¹⁾

¹⁾Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾Department of Immunology, Faculty of Medicine, and Center for TARA, University of Tsukuba

WS05-06-O/P

Anatomic and functional compartmentalization of ILC2s in the small intestine

O Satoshi Koga¹⁾, Victor S Cortez¹⁾, Claire E O'Leary¹⁾, Hong-Erh Liang¹⁾, Richard M Locksley^{1,2,3)}

¹⁾Department of Medicine, University of California San Francisco, San Francisco, California, U.S.A., ²⁾Department of Microbiology & Immunology, University of California San Francisco, San Francisco, California, U.S.A., ³⁾Howard Hughes Medical Institute, University of California San Francisco, San Francisco, California, U.S.A.

WS05-07-O/P

ILC2-derived IL-13 contributes to endometriosis exacerbation

○ Kentaro Kubota^{1, 2)}, Tsuyoshi Kiniwa¹⁾, Kazuyo Moro^{1, 2, 3, 4)}

¹⁾Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), Kanagawa, Japan, ²⁾Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Osaka University Graduate School of Medicine, Osaka, Japan, ³⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center, Osaka, Japan, ⁴⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School of Frontier Biosciences, Osaka, Japan

WS05-11-O/P

Interleukin-27 supports metabolic adaptation of Natural killer T cells and effector responses

Yasuhiro Kamii^{1, 2)}, Koji Hayashizaki^{1, 3)}, Toshio Kanno⁴⁾, Yoshimasa Takahashi³⁾, Toshiaki Ohteki⁵⁾, Yusuke Endo⁴⁾, Yuki Kinjo^{1, 3)}

¹⁾Department of Bacteriology, The Jikei University School of Medicine, Tokyo, Japan, ²⁾Division of Respiratory Diseases, Department of Internal Medicine, The Jikei University School of Medicine, Tokyo, Japan, ³⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Tokyo, Japan, ⁴⁾Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, Chiba, Japan, ⁵⁾Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan

WS05-14-O/P

CD96 blockade ameliorates imiquimod-induced psoriasis-like dermatitis via suppression of IL-17A production by dermal gdT cells

○ Kyoko Oh-Oka¹⁾, Fumie Abe²⁾, Akira Shibuya^{1,3,4)}, Kazuko Shibuya^{1,3)}

¹⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, ²⁾TNAX Biopharma Corporation, ³⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, ⁴⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba

WS05-16-O/P	Regulatory mechanism of RORyt expression in ILC3 Takuma Fukui ¹⁾ , Satoshi Kojo ²⁾ , Eriko Sumiya ¹⁾ , Shinichi Koizumi ¹⁾ Division of Mucosal Immunology, Medical Institute of Bioregulation, Kyushu Univ cell biology, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa U	versity, Fukuoka, Japan, ²⁾ Division of Immunology and Stem
WS05-17-O/P	Aging alters landscape of pulmonary innate lymphoid cells	
	Masato Asaoka ^{1,2}), Tetsuro Kobayashi ¹⁾ , Tommy Walter Terooatea Hiroki Kabata ²⁾ , Kazuyo Moro ^{1,4,5)} ¹⁾ Laboratory for Innate Immune systems, Center for Integrative Medical Sciences, R Medicine, Keio University School of Medicine, ³⁾ Laboratory for Cellular Epigenomic ⁴⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immuno ⁵⁾ Immunology Frontier Research Center, Osaka University	IKEN, ²⁾ Division of Pulmonary Medicine, Department of cs, Center for Integrative Medical Sciences, RIKEN,
WS05-18-O/P	A Japanese traditional medicine, Daikenchuto, alleviates col	litis by reshaping microbial profiles and
	enhancing group 3 innate lymphoid cells Naoko Satoh-Takayama ^{1, 2)} , Zhengzheng Shi ^{1, 3)} , Tadashi Takeuchi ¹ Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Science Graduate School of Medical Life Science, Yokohama City University, Yokohama, Ka Graduate School of Medical and Pharmaceutical Sciences, Chiba University, Chiba	s, Yokohama, Kanagawa, Japan, ²⁾ lmmunobiology Laboratory, anagawa, Japan, ³⁾ Laboratory for Immune Regulation,
WS06 Aut	coimmune diseases -Tissue specific-	15:30 ~ 16:45 Room F
antigen. are invol organ-sp	pecific autoimmune diseases are characterized by the breakdown of However, it remains largely unknown how autoreactive T cells and B ceved in the disease development and progression. In this session, we we becific autoimmune diseases including pemphigus, neuromyelitis optical ophtalmopathy. We hope that all attendees participate in active discussions.	ells, other immune cells and tissue resident cells yould like to discuss the diverse mechanisms of a, multiple sclerosis, ankylosing spondylitis, and
WS06-01-O/P	Autoantigen-specific B cell-targeted single-cell RNA-seq indi Jun Yamagami ^{1, 2)} , Shohei Egami ^{1, 3)} , Takashi Watanabe ⁴⁾ , Ayano F Hayato Takahashi ¹⁾ , Osamu Ohara ⁴⁾ , Masayuki Amagai ^{1, 3)} ¹⁾ Department of Dermatology, Keio University School of Medicine, ²⁾ Department of I for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, ⁴⁾ Laboratory Medical Sciences	ukushima-Nomura ¹⁾ , Hisashi Nomura ¹⁾ , Dermatology, Tokyo Women's Medical University, ³ Laboratory
WS06-02-O/P	Analysis of naïve B cell in neuromyelitis optica spectrum disc Shuhei Sano ¹⁾ , Soichiro Yoshikawa ¹⁾ , Daisuke Noto ¹⁾ , Yasunobu H. Nobutaka Hattori ²⁾ , Sachiko Miyake ¹⁾ ¹⁾ Department of Immunology, Juntendo university, Tokyo, Japan, ²⁾ Department of n	oshino ^{1, 2)} , Yuji Tomizawa ²⁾ , Kazumasa Yokoyama ²⁾ ,
WS06-03-O/P	Roles of anti-glycolipid antibodies in different animal models courses — Fumitaka Sato ¹⁾ , Yumina Nakamura ¹⁾ , Kota Moriguchi ^{1, 2)} , Ah-Mee Sundar Khadka ¹⁾ , Ijaz Ahmad ¹⁾ , Susumu Kusunoki ⁴⁾ , Ikuo Tsunoda ¹⁾	

Progressive multiple sclerosis patient-derived gut bacterial strain accelerates neuronal inflammation via intestinal Th17 cells

¹⁾Department of Microbiology, Kindai University Faculty of Medicine, Osaka, Japan, ²⁾Department of Internal Medicine, Japan Self Defense Forces Hanshin Hospital, Hyogo, Japan, ³⁾Department of Neurology, Kindai University Faculty of Medicine, Osaka, Japan, ⁴⁾Japan Community

O Daiki Takewaki¹⁾, Wakiro Sato¹⁾, Hiroaki Masuoka²⁾, Masahira Hattori²⁾, Wataru Suda²⁾, Takashi Yamamura¹⁾ National Center of Neurology and Psychiatry, Kodaira, Japan, ²⁾RIKEN, Yokohama, Japan

Health care Organization (JCHO) Headquarters, Tokyo, Japan

WS06-04-O/P

WS06-05-O/P	γδΤ17 cells in Peyer's patches acquire the encep commensals and exacerbates autoimmune encel Seiga Komiyama ¹⁾ , Daisuke Takahashi ²⁾ , Tsuneyasu I Division of Biochemistry, Graduate School of Pharmacy, Keio Univ University, Tokyo, Japan, 3 Institute of Advanced Medicine, Wakayar	chalomyelitis (aisho³), Koji Hase²) rersity, Tokyo, Japan, ²Division of Biochemistry, Faculty of Pharmacy, Keio
WS06-06-O/P	Gut microbiota regulated miRNA disturbs BBB int Manu Mallahalli ¹⁾ , Manu Mallahalli ¹⁾ , Hirohiko Hohjol Department of Immunology, National Institute of Neuroscience, NC Institute of Neuroscience, NCNP, Tokyo, Japan.	•
WS06-07-O/P	The role of Dual-specificity phosphatase family in Ming-Han Chen Division of Allergy- Immunology- Rheumatology, Department of M	
W506-08-O/P	Vannakorn Pruksakorn ³⁾ , Nattiya Hirankarn ⁴⁾ , P. Martin ¹⁾ Medical Microbiology, Interdisciplinary Program, Graduate School Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand., ⁴⁾ Department of Mic Immune Mediated Diseases, Chulalongkorn University, Bangkok, T	O, Chirayus Khawsang ²⁾ , Tanapat Palaga ²⁾ , Preamjit Saonanon ³⁾ , van Hagen ^{4,5,6)} , Willem A. Dik ⁵⁾ , Sita Virakul ²⁾ , Chulalongkorn University, Bangkok, Thailand., ²⁾ Department of Ophthalmology, Faculty of Medicine, robiology, Faculty of Medicine, Center of Excellence in Immunology and nailand., ⁵⁾ Laboratory Medical Immunology, Department of Immunology, s., ⁶⁾ Division of Clinical Immunology, Department of Internal Medicine,
WS07 Muco	sal-Skin Immunity	15:30 ~ 16:45 Room G Chairpersons: Eiji Umemoto, Hisako Kayama
considering has shown t of this WS i	that these tissues are the main routes of invasion of h that immunological barriers contribute to the tissue hom	nigh numbers of diverse immune cells. That is reasonable, armful pathogenic microorganisms. Accumulating evidence eostasis and pathophysiology of multiple diseases. The aim techanisms for establishment of the immunological barriers

WS07-01-O/P

Lactococcus lactis subsp. Cremoris C60 establishes anti-inflammatory intestinal environment by increasing interleukin-10 producing CD4⁺ T cells

O Noriko Tsuji^{1, 2, 3)}, Suguru Saito^{2, 4)}, Toshio Maekawa^{1, 2)}

¹⁾Microbiology/ Immune Homeostasis, Dept. Pathology and Microbiology, Nihon University School of Medicine, ²⁾Cellular and Molecular Engineering, Dept. Life Technology and Science, AIST, ³⁾Dept. Food Science, Jumonji University, ⁴⁾Dept. Dentistry, Faculty of Medicine and Dentistry, University of Alberta

WS07-03-O/P Pyruvate enhances oral tolerance via GPR31

○ Qizhi Liu¹⁾, Ryu Okumura¹⁾, Eiji Umemoto²⁾, Kiyoshi Takeda¹⁾

¹⁾Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²⁾Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka

wsor-o4-o/P Decoding Interactions between Environmental Small Molecules and Host Receptors in the Gut

○ Motohiko Kadoki^{1, 2)}, Daniel Graham¹⁾, Ramnik Xavier^{1, 2)}

¹⁾Broad Institute, Massachusetts, USA, ²⁾Center for Computational and Integrative Biology, Massachusetts General Hospital, Massachusetts,

wsor-os-o/P CARS2-dependent sulfur metabolism controls intestinal inflammation by suppressing CD4⁺ T cell proliferation

O Shunichi Tayama, Takeshi Kawabe, Kyoga Hiraide, Jing Li, Ziying Yang, Kosuke Sato, Akihisa Kawajiri, Yuko Okuyama, Naoto Ishii

Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Miyagi, Japan

W507-06-O/P	Deep profiling identifies a unique tissue resident CD4+ T-cell subset enriched in Crohn's disease Takehito Yokoi, Mari Murakami, Kiyoshi Takeda Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan
W507-07-O/P	Gut-resident innate lymphoid cells regulate lipid metabolism in response to malnutrition. Takuma Misawa, Shigeo Koyasu Yokohama City, Kanagawa, Japan, RIKEN IMS Laboratory for Immune Cell Systems
WS07-15-O/P	Mode of action analysis of IL-33 as a mucosal adjuvant Amane Mukai ¹⁾ , Koubun Yasuda ¹⁾ , Shiori Egashira ¹⁾ , Takumi Adachi ¹⁾ , Kazufumi Matsushita ¹⁾ , Tomoaki Hoshino ²⁾ , Etsushi Kuroda ¹⁾ Department of Immunology, Hyogo Medical University, School of Medicine, Department of Medicine, Kurume University School of Medicine.
WS07-16-O/P	Skin-resident ILC1 promote barrier response against mechanical stress Tetsuro Kobayashi ¹⁾ , Aki Minoda ²⁾ , Kazuyo Moro ^{1,3,4)} ¹⁾ Innate Immune Systems, IMS, RIKEN, Yokohama, Japan, ²⁾ Cellular Epigenomics, IMS, RIKEN, Yokohama, Japan, ³⁾ Innate Immune Systems, Osaka University Graduate School of Medicine, Osaka, Japan, ⁴⁾ Innate Immune Systems, Osaka University Immunology Frontier Research Center, Osaka, Japan
WS07-17-O/P	M2 macrophages generated in the termination phase of skin allergic inflammation display high efferocytic capacity and promote resolution of inflammation (Sensuke Miyake ¹), Junya Ito ¹), Kazufusa Takahashi ¹), Jun Nakabayashi ²), Shigeyuki Shichino ³), Hajime Karasuyama ¹ (Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, (Institute of Education, Tokyo Medical and Dental University (TMDU), Notes of Molecular Regulation of Inflammatory and Immune Disease Research Institute of Biomedical Sciences, Tokyo University of Science, Noda, Japan

WS08 Anti SARS-CoV-2 immune responses and Antibody producers 15:30 ~ 16:45 Room H Chairpersons: Koji Tokoyoda, Kyoko Ochiai

Anti-SARS-CoV-2 immune responses have recently become a hot topic. Under the threat of new viruses, antigen-specific antibodies produced by plasma cells prevent the body from infection. Class switching and affinity maturation of the immunoglobulin genes in the germinal center are critical for acquiring these antibodies. The molecular mechanism includes gene regulation, DNA damage repair machinery, cellular metabolism, and cell signaling pathways. This workshop selected topics related to SARS-CoV-2, Germinal center, Class switch, and Plasma cells.

WS08-01-O/P

Role of germinal center response in the antibody responses against SARS-CoV-2 spike protein

Jumana Khalil¹⁾, Kosuke Miyauchi²⁾, Yuichiro Yamamoto³⁾, Kouji Noguchi³⁾, Rina Hashimoto⁴⁾, Kazuo Takayama⁴⁾, Masato Kubo^{1, 2)}

¹⁾Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Noda, Japan, ²⁾Laboratory for Cytokine Regulation, Center for Integrative Medical Sciences, RIKEN, Yokohama, Japan, ³⁾Department of Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, Tokyo University of Science, Noda, Japan, ⁴⁾Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan

WS08-07-O/P

STIM-mediated store-operated calcium entry regulates maintenance and selection of germinal center B cells

○ Yutaro Yada¹⁾, Masanori Matsumoto²⁾, Takeshi Inoue³⁾, Daisuke Kitamura⁴⁾, Tomohiro Kurosaki^{3, 5)}, Yoshihiro Baba¹⁾

¹⁾Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²⁾Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, Ann Arbor, MI, USA., ³⁾Laboratory for Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Suita, Osaka, Japan, ⁴⁾Division of Molecular Biology, Research Institute for Biomedical Sciences, Tokyo University of Science, Noda, Chiba, Japan, ⁵⁾Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Kanagawa, Japan.

WS08-09-O/P	The effect of iron metabolism on antibody production of B cell
	O Mayuko Shimoda ¹⁾ , Mayumi Niimura ¹⁾ , Yuki Takeshima ¹⁾ , Chanida Thinyakul ¹⁾ , Narumi Harada ¹⁾ , Saisai Liu ¹⁾ , Toshiro Moroishi ^{1, 2)}
	¹⁾ Department of Cell Signaling and Metabolic Medicine, Faculty of Life Sciences, Kumamoto University, ²⁾ Center for Metabolic Regulation of Healthy Aging, Faculty of Life Sciences, Kumamoto University
WS08-10-O/P	HNRNPU Promotes Antibody Class Switch Recombination through NHEJ and R-loop Regulation at the IgH
	OAhmed M. Refaat ^{1, 2)} , Nasim A. Begum ¹⁾ , Afzal Husain ³⁾ , Mikiyo Nakata ¹⁾ , Hidetaka Kosako ⁴⁾ , Tasuku Honjo ¹⁾ Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾ Zoology Department, Faculty of Science, Minia University, El-Minia, Egypt, ³⁾ Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, ⁴⁾ Division of Cell Signaling, Institute of Advanced Medical Sciences, The University of Tokushima, Tokushima, Japan
WS08-11-O/P	NOP16, a novel regulator of histone modification, regulates B-cell class switch recombination
	 Yohana Mtali, Ken Takashima, Atsushi Irie, Hiroyuki Oshiumi Department of Immunology, Graduate school of medical science, Kumamoto University, Kumamoto, Japan
WS08-13-O/P	Novel strategy for treatment of allergic diseases by regulation of IgA class switching
	○ Naoki Morita ¹⁾ , Reiko Shinkura ¹⁾ , Hirotatsu Kojima ²⁾
	¹⁾ Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²⁾ Drug Discovery Initiative, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS08-14-O/P	Identification of IgA autoantibodies against glomerular mesangial cells and the target autoantigen using
	an IgA nephropathy mouse model
	O Yoshihito Nihei ^{1, 2)} , Kei Haniuda ²⁾ , Mizuki Higashiyama ²⁾ , Hiroyuki Iwasaki ¹⁾ , Shohei Asami ²⁾ , Yusuke Suzuki ¹⁾ , Daisuke Kitamura ²⁾
	¹⁾ Department of Nephrology, Juntendo University Faculty of Medicine, Tokyo, Japan., ²⁾ Division of Cancer Cell Biology, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science, Noda, Japan.
WS08-16-O/P	Immunoglobulin A deficiency breaks immunological and neurological homeostasis
	Takahiro Adachi Medical Research Institute, Tokyo Medical and Dental University, Japan
WS08-19-O/P	The regulation of B cell chromatin by a non-histone chromatin protein PC4 and its interacting transcription factors
	○ Kyoko Ochiai, Kazuhiko Igarashi
	Tohoku University Graduate School of Medicine
WS08-20-O/P	Genetic tracing of plasma cells reveals cellular dynamism during entry to long-lived compartment
	○ Takuya Koike ^{1, 2)} , Kentaro Fujii ^{2, 3)} , Kohei Kometani ^{2, 4)} , Shinya Yari ^{2, 3)} , Junichi Kikuta ^{2, 3)} , Masaru Ishii ^{2, 3)} , Tomohiro Kurosaki ²⁾ , Wataru Ise ^{1, 2)}
	¹⁾ Center for Infectious Disease Education and Research, Osaka University, Osaka, Japan, ²⁾ WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, ³⁾ Graduate School of Medicine and Frontier Biosciences, Osaka University, Osaka, Japan, ⁴⁾ Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan
WS08-21-O/P	In vivo predominant immunoglobulin secretion in the bone marrow IgG-secreting plasma cells
	 Shogo Tsuda, Harumi Sasaki, Akihiko Murata, Koji Tokoyoda Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan
WS08-22-O/P	Lymphocyte infiltration into liver was enhanced in high-fat diet-loaded LDL receptor and MD-1 double-
	deficient mice
	 Sachiko Akashi-Takamura, Mrityunjoy Biswas, Susumu Tomono, Tatsuya Yamazaki, Masanori Inui, Sajid Iftekhar Chowdhury Department of Microbiology and Immunology, Aichi Medical University, School of Medicine, Nagakute, Japan

WS09 Molecular and cellular diversity of allergic disease

15:30 ~ 16:45 Room I

Chairpersons: Yumi Matsuoka-Nakamura, Yosuke Kurashima

The symphony of the allergy-related molecular and cellular interaction leads to the chronic allergic inflammation occurring in the various tissues and resulting in the atopic dermatitis, contact hypersensitivity, allergic conjunctivitis etc. Thus, elucidation of the complexity of diverse cellular interplay which orchestrates allergic reaction is critically important to develop the next generation of the novel first line treatment. In this session, we would like to discuss pathophysiology of allergic inflammation, especially focus on the complex interplay among various molecular and cellular interplay of allergic disease.

WS09-01-O/P

Spontaneous dermatitis associated with elevated sebaceous lipid production in Tmem79-deficient mice

○ Ari Morimoto^{1,2)}, Keitaro Fukuda^{1,2)}, Yoshihiro Ito^{1,2)}, Hiroshi Kawasaki^{1,2)}, Eiryo Kawakami^{3,4)}, Makoto Arita^{5,6)}, Haruhiko Koseki⁷⁾, Takeshi Matsui^{1,2,8)}, Masayuki Amagai^{1,2)}

¹⁾Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ²⁾Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ³⁾Advanced Data Science Project (ADSP), RIKEN Information R&D and Strategy Headquarters, Yokohama, Japan, ⁴⁾Artificial Intelligence Medicine, Graduate School of Medicine, Chiba University, Chiba, Japan, ⁵⁾Division of Physiological Chemistry and Metabolism, Faculty of Pharmacy, Keio University, Tokyo, Japan, ⁵⁾Laboratory for Metabolomics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁷⁾Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁸⁾Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji, Japan

WS09-02-O/P

Elucidation of the pathogenesis of spontaneous dermatitis in Foxp3 Bcl6 cDKO mice

○ Yuki Tai¹⁾, Shuhei Ogawa²⁾, Yohsuke Harada¹⁾

¹⁾Laboratory of Pharmaceutical Immunology, Faculty of Pharmaceutical Sciences, Tokyo University of Science, Chiba, Japan, ²⁾Division of Integrated Research, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

WS09-03-O/P

T cell-specific deletion of Pgam1, a glycolytic enzyme, ameliorates the symptoms of allergic contact dermatitis in mice

○ Miyuki Omori-Miyake¹⁾, Masakatsu Yamashita^{1,2)}

¹⁾Dept. of Infections and Host Defenses, Ehime University Graduate School of Medicine, ²⁾Dept. of Immunology, Ehime University Graduate School of Medicine

WS09-04-O/P

Decomposition of Atopic dermatitis skin RNA-seq data reveals diverse immune pathways in its pathogenesis

○ Ayano Fukushima-Nomura¹¹, Hiroshi Kawasaki¹.²², Keiji Tanese¹¹, Eiryo Kawakami³), Masayuki Amagai¹¹

¹⁾Department of Dermatology, Keio University School of Medicine, ²⁾RIKEN Center for Integrative Medical Sciences, ³⁾RIKEN Advanced Data Science Project

WS09-05-O/P

Inflammatory and pruritogenic actions of Oncostatin-M (OSM) in the pathogenesis of atopic dermatitis

○ Tomohiro Miyai^{1, 2, 3)}, Hiroshi Kawasaki^{1, 2, 3)}, Sonoko Takahashi⁴⁾, Sotaro Ochiai⁴⁾, Takaharu Okada⁴⁾, Masayuki Amagai^{2, 5)}, Haruhiko Koseki^{1, 6)}

¹⁾Laboratory for Developmental Genetics, RIKEN IMS, Yokohama, Japan, ²⁾Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ³⁾Development Theme for Atopic Dermatitis Therapeutics, RIKEN DMP, Yokohama, Japan, ⁴⁾Laboratory for Tissue Dynamics, RIKEN IMS, Yokohama, Japan, ⁵⁾Laboratory for Skin Homeostasis, RIKEN IMS, Yokohama, Japan, ⁶⁾Department of Cellular and Molecular Medicine, Chiba University School of Medicine, Chiba, Japan

WS09-06-O/P

Skin treatment with detergent induces dermatitis with H1 antihistamine-refractory itch and upregulates IL-4 and Th17/Th22 cytokine gene expression in C57BL/6 mice

○ Seiji Kamijo¹¹, Yurie Masutani¹.²², Toru Kimitsu¹.²², Tomoko Yoshimura¹.²², Saori Ichikawa³¹, Takasuke Ogawa²¹, Mitsutoshi Tominaga⁴¹, Hajime Suto¹¹, Kenji Takamori⁴, Shigaku Ikeda¹.²², Ko Okumura¹¹, Toshiro Takai¹¹

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾Department of Allergology and Dermatology, Juntendo University Graduate School of Medicine, ³⁾Department of Materials and Biological Sciences, Japan Women's University, ⁴⁾Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine

WS09-07-O/P

Mead acid (5,8,11-eicosatrienoic acid) inhibits retinol-induced irritant contact dermatitis through $PPAR\alpha$ -mediated pathway

Azusa Saika¹, Prabha Tiwari^{1,2}, Takahiro Nagatake^{1,3}, Koji Hosomi¹, Eri Node¹, Tetsuya Honda⁴, Kenji Kabashima⁵, Jun Kunisawa¹

¹⁾Laboratory of Vaccine Materials, Center for Vaccine and Adjuvant Research, and Laboratory of Gut Environmental System, Collaborative Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), Ibaraki, Osaka, ²⁾Laboratory for Transcriptome Technology, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, ³⁾Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, Kawasaki, Kanagawa, ⁴⁾Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Shizuoka, ⁵⁾Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, Kyoto

WS09-08-O/P

DOCK2 is essential for MRGPRX2/B2-mediated mast cell degranulation and drug-induced anaphylaxis

○ Kazufumi Kunimura, Yoshinori Fukui

Division of Immunogenetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS09-09-O/P

Pollen shells promote allergic conjunctivitis through inducible goblet cell-associated antigen passage

○ Meiko Kimura^{1, 2, 3)}, Tomoaki Ando¹⁾, Yasuharu Kume^{1, 2, 3)}, Saaya Fukase^{1, 2, 3)}, Moe Matsuzawa^{1, 2, 3)}, Kumi Izawa¹⁾, Ayako Kaitani¹⁾, Nobuhiro Nakano¹⁾, Ko Okumura¹⁾, Akira Murakami³⁾, Nobuyuki Ebihara^{2, 3)}, Jiro Kitaura^{1, 4)}

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine (Tokyo, Japan), ²⁾Department of Ophthalmology, Juntendo University Urayasu Hospital (Chiba, Japan), ³⁾Department of Ophthalmology, Juntendo University Graduate School of Medicine (Tokyo, Japan), ⁴⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine (Tokyo, Japan)

December 8

WS10 T cell function and diseases-1 (Disease models and SARS-CoV-2)

14:05 ~ 15:20 Room B

Chairpersons: Masaaki Murakami, Junko Morimoto

T cells require proper activation and differentiation processes for host defense against pathogens. Multiple mechanisms, including TCR signaling, costimulatory and inhibitory molecules, cytokines, and metabolites exert key controls on T cell function. A comprehensive understanding of the molecular mechanisms laying the T cell activation and differentiation are important subjects for future therapeutic application as well. In this session, we will discuss several topics on T cell signaling and T cell subsets related to CNS and skin diseases and inflammmation against SARS-CoV-2. We hope active participation and discussion in oral and poster presentations. [Each presentation is expected to finish within 7 minutes followed by 3 minutes of discussion.]

WS10-01-O/P

CD4⁺ skin-resident memory T cells persist in CD68⁺ cellular niches

Akihiko Murata, Momoka Wakazuki, Koji Tokoyoda

Division of Immunology, Department of Molecular and Cellular Biology, School of Life Science, Faculty of Medicine, Tottori University, Tottori, Japan

WS10-02-O/P

A gain-of-function mutation of immunoreceptor DNAM-1 exacerbates CD4+ T cell-mediated autoimmune inflammation

○ Rikito Murata^{1,2)}, Shota Kinoshita^{1,2)}, Kenshiro Matsuda^{1,3)}, Atsushi Kawaguchi⁴⁾, Akira Shibuya^{1,3,5)}, Kazuko Shibuya^{1,5)}

¹⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, ²⁾Ph.D. Program in Human Biology, University of Tsukuba, ³⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, ⁴⁾Infection Biology, Faculty of Medicine, University of Tsukuba, ⁵R&D Center for Innovative Drug Discovery, University of Tsukuba

WS10-03-O/P

NRP1 marks a pathogenic self-reactive Th subset in autoimmune disease

○ Ben Raveney¹⁾, Shohei Hori²⁾, Wakiro Sato¹⁾, Takashi Yamamura¹⁾, Shinji Oki¹⁾

¹⁾Department of Immunology, National Institute of Neuroscience, NCNP, Kodaira, Tokyo, Japan, ²⁾Laboratory for Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, University of Tokyo, Japan

WS10-04-O/P

Role of yo T cells in antigen specific CD4* T cell response to Plasmodium chabaudi infection

○ Yarob Ibraheem¹¹, Ganchimeg Bayarsaikhan¹¹, Maria Lourdes Macalinao²¹, Kazumi Kimura¹¹, Katsuyuki Yui¹¹,²,³³, Shin-Ichi Inoue¹¹

¹⁾Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University, ²⁾School of Tropical Medicine and Global Health, Nagasaki University, ³⁾Institute of Tropical Medicine, Nagasaki University WS10-05-O/P

Cytotoxic CD8* T cells simultaneously expressing GZMA, GZMB and Perforin regulate COVID-19 severity

○ Takuto Nogimori^{1,2)}, Koichiro Suzuki³⁾, Yuji Masuta¹⁾, Ayaka Washizaki^{1,2)}, Hidenori Kanda⁴⁾, Minoru Takada⁵⁾, Shohei Minami⁶⁾, Takeshi Kobayashi⁶⁾, Shokichi Takahama^{1,2)}, Yasuo Yoshioka^{3,7,8)}, Takuya Yamamoto^{1,2,6,9,10)}

¹⁾Laboratory of Immunosenescence, Center for Vaccine and Adjuvant Research, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ³⁾The Research Foundation for Microbial Diseases of Osaka University (BIKEN), Osaka, Japan, ⁴⁾KINSHUKAI, Hanwa Memorial Hospital, Osaka, Japan, ⁵⁾KINSHUKAI, Hanwa The Second Senboku Hospital, Osaka, Japan, ⁶⁾Department of Virology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁷⁾Vaccine Creation Group, BIKEN Innovative Vaccine Research Alliance Laboratories, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁸⁾Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Osaka, Japan, ⁹⁾Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, ¹⁰⁾Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan

WS10-06-O/P

T cell responses induced by SARS-Cov-2 mRNA vaccination are associated with clonal replacement

O Hiroyasu Aoki^{1,2)}, Masahiro Kitabatake³⁾, Shigeyuki Shichino¹⁾, Atsushi Hara³⁾, Noriko Ouji-Sageshima³⁾, Toshihiro Ito³⁾, Kouji Matsushima¹⁾, Satoshi Ueha¹⁾

¹⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan., ²⁾Department of Hygiene, Graduate School of Medicine, The University of Tokyo., ³⁾Department of Immunology, Nara Medical University, Nara, Japan.

WS10-07-O/P

In vivo generation of designer APCs with mRNA regulates T cell immune responses

○ Tomoyoshi Yamano^{1, 2)}, Shota Imai¹⁾, Toan Le¹⁾, Xiabing Lyu¹⁾, Rikinari Hanayama^{1, 2)}

¹⁾Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, ²⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University

WS11 Tumor Immunotherapy

14:05 ~ 15:20 Room C

Chairpersons: Hiroaki Ikeda, Kanako Shimizu

Recently, tumor immunotherapies such as immune checkpoint inhibitors (ICIs) and CAR-T cell therapy have been applied to clinical treatment of cancer patients. However, patients benefitted from these treatments are still limited, suggesting the needs to better understand the mechanism of the obstacles and to develop novel and effective cancer immunotherapy that overcome the problems. In this session, we will discuss about new approaches to overcome recent limits in adoptive immunotherapy such as CAR-T and TCR-T cell therapy as well as ICI therapies. The suppressive mechanism such as Tregs, co-inhibitory molecules, and new insights in B cells and antibody in tumor immunity will be also presented. We hope these presentations will stimulate the audience resulting in exploration of the new strategy to develop novel and effective tumor immunotherapies.

WS11-04-O/P

Exhaustion-resistant CAR-T cells by overexpressing dominant negative form of NR4A factors for the treatment of solid tumors

Makoto Ando, Akihiko Yoshimura

Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan

WS11-05-O/P

Development of CART cell therapy against T cell malignancies

Carl June²⁾, Hiroyoshi Nishikawa¹⁾

¹⁾National Cancer Research Center Research Institute Division of Cancer Immunology, Tokyo Japan, ²⁾Center for Cellular Immunotherapies, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA

WS11-06-O/P

A novel chimeric cytokine receptor-engineered CAR-T cells achieve both potent cytotoxicity and reduced cytokine release syndrome

O Toshiaki Yoshikawa, Yuki Kagoya Aichi Cancer center. Aichi, Japan

WS11-07-O/P

Targeting poor prognosis acute myeloid leukemia with CD25-targeted chemokine receptor expressing CAR T cell therapy

O Ari Itoh-Nakadai^{1, 2)}, Mariko Murasawa-Tomizawa¹⁾, Masashi Matsuda³⁾, Haruhiko Koseki³⁾, Fumihiko Ishikawa¹⁾ Laboratory for Human Disease Models, IMS, Riken , Yokohama, Japan, ²⁾ Hygiene & public Health, Nippon Medical School, Tokyo, Japan, ³⁾ Developmental Genetics, IMS,RIKEN, Yokohama, Japan

WS11-09-O/P	Engineering immune cell network with advanced split CAR system Atsushi Okuma ^{1, 2, 3)} 1)Department of Biomedical Engineering, Boston University, ²⁾ Biological Design Center, Boston University, ³⁾ Current affiliation; Center for Exploratory Research, Hitachi, Ltd
WS11-10-O/P	Generation of genetically engineered TCR-T cells from self-renewing multipotent progenitor cells Tsukasa Shigehiro, Tomokatsu Ikawa Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan
WS11-11-O/P	Harnessing arginine metabolism to overcome hyperthermia-induced metabolic dysfunction of CAR T-cells Taisuke Kondo, Justyn Dusold, Naomi Taylor National Cancer Institute, National Institutes of Health, Maryland, USA
WS11-14-O/P	Aging-associated and CD4 T cell-dependent ectopic CXCL13 activation predisposes to anti-PD-1 therapy-induced adverse events Hirotake Tsukamoto ¹⁾ , Yoshihiro Komohara ²⁾ , Yusuke Tomita ³⁾ , Yuji Miura ²⁾ , Takanobu Motoshima ⁴⁾ , Kosuke Imamura ³⁾ , Toshiki Kimura ³⁾ , Yukio Fujiwara ²⁾ , Hiromu Yano ²⁾ , Tomomi Kamba ⁴⁾ , Takuro Sakagami ³⁾ , Hiroyuki Oshiumi ⁵⁾ Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, ²⁾ Department of Cell Pathology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, ⁴⁾ Department of Urology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, ⁵⁾ Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, ⁵⁾ Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, ⁵⁾ Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University
W511-20-O/P	A TGF-β milieu molecule on Tregs orchestrates cancer progression in the lung Qiao Gou, Hiroyuki Takaba, Hiroshi Takayanagi Department of Immunology, The University of Tokyo, Tokyo, Japan
WS11-23-O/P	Clonal expanded IgG-producing plasma cells triggered by Tfh cells are associated with better survival in endometrial cancer Mayu Fujioka ¹⁾ , Shusei Fujioka ¹⁾ , Hiroyuki Yoshitomi ¹⁾ , Masayo Ukita ²⁾ , Haruka Suzuki ²⁾ , Junzo Hamanishi ²⁾ , Yasuhide Takeuchi ³⁾ , Sachiko Minamiguchi ³⁾ , Hiroaki Ito ³⁾ , Masaki Mandai ²⁾ , Hideki Ueno ¹⁾ Department of Immunology, Kyoto University, Kyoto, Japan, Department of Gynecology and Obstetrics, Kyoto University, Kyoto, Japan, Department of Diagnostic Pathology, Kyoto University, Kyoto, Japan

WS12 Infection and Immunity II

14:05 ~ 15:20 Room D

Chairpersons: Taro Kawai, Miwa Sasai

Infection of microbes such as viruses, bacteria, fungi and parasites induces host immune responses. Activation of host innate and adaptive immune cells by various host receptors and the subsequent signaling pathways are important for exclusion and elimination of the infecting microbes. Recent advances in understanding molecular mechanisms of how host innate and adaptive immune receptors recognize microbe infection are highly in progress. In this workshop, studies such as immune responses, immunological memory, macrophages, interferon and various signaling molecules in terms of pathogenic microbe infection are particularly focused.

WS12-04-O/P

Delayed antigen-specific CD4+ T-cell induction correlates with lower antibody responses and fewer adverse effects to SARS-CoV-2 mRNA vaccination in older adults

O Norihide Jo^{1, 2)}, Yoko Hamazaki^{1, 3)}

¹⁾Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University, ²⁾Alliance Laboratory for Advanced Medical Research, Graduate school of Medicine, Kyoto University, ³⁾Laboratory of Immunobiology, Graduate school of Medicine, Kyoto University

WS12-06-O/P

The underlying mechanism of the deterioration in obese patients with COVID-19

○ Tadashi Hosoya^{1, 2)}, Seiya Oba^{1, 2)}, Yoji Komiya^{1, 2)}, Daisuke Kawata¹⁾, Mari Kamiya¹⁾, Hideyuki Iwai^{1, 2)}, Sho Miyamoto²⁾, Takayuki Kanno²⁾, Akira Ainai²⁾, Tadaki Suzuki²⁾, Hideki Hasegawa³⁾, Shinsuke Yasuda¹⁾

¹⁾Department of Rheumatology, Tokyo Medical and Dental University, ²⁾Department of Pathology, National Institute of Infectious Diseases, ³⁾Center for Influenza and Respiratory Virus Research, National Institute of Infectious Diseases

WS12-07-O/P	Elevated Myl9 reflects the Myl9-containing microthrombi in SARS-CoV-2-induced lung exudative
	vasculitis and predicts COVID-19 severity Chiaki Iwamura, Kiyoshi Hirahara, Masahiro Nemoto, Kaori Tsuji, Miki Onoue, Akane Kurosugi, Atsuhi Sasaki, Toshinori Nakayama Chiba Univeristy
WS12-12-O/P	The Vi capsular polysaccharide of <i>Salmonella</i> Typhi promotes macrophage phagocytosis by binding the human C-type lectin DC-SIGN Hirotaka Hiyoshi ^{1, 2)} , Lillian F. Zhang ²⁾ , Andreas J. Bäumler ²⁾ Illinstitute of Tropical Medicine, Nagasaki University, ²⁾ University of California at Davis
WS12-16-O/P	The C-type lectin receptor Dcir1 counterbalances the antifungal response against Aspergillus fumigatus infection Fabio Yoshikawa, Shinobu Saijo Medical Mycology Research Center, Chiba University, Chiba, Japan
WS12-18-O/P	Transcriptomic analysis of the olfactory bulb during experimental cerebral malaria (ECM) Julia Matsuo-Dapaah ^{1, 2)} , Michelle Sue Jann Lee ^{1, 3)} , Cevayir Coban ^{1, 2, 3)} Division of Malaria Immunology, Institute of Medical Science (IMSUT), University of Tokyo, ²⁾ Graduate School of Medicine, University of Tokyo, ³ International Vaccine Design Center, Institute of Medical Science (IMSUT), University of Tokyo
WS12-20-O/P	Identification of leukocyte immunoglobulin-like receptor A1 (LILRA1) as a specific receptor for <i>Aspergillus fumigatus</i> conidia Yasunobu Miyake, Hiroki Yoshida Division of Molecular and Cellular Immunoscience, Department of Biomolecular Sciences, Faculty of Medicine, Saga University
WS12-23-O/P	Antiviral innate immune responses are regulated by a lipid metabolism via expression of unusual type I IFN subtypes Tasuku Nishimura, Takahisa Kouwaki, Hiroyuki Oshiumi Department of Immunology, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan
WS13 B ce	II Development and Activation 14:05 ~ 15:20 Room E Chairpersons: Makoto Tsuiji, Saya Moriyama
much insiç adjuvants,	ne disease is a condition arising from an abnormal immune response to self. These diseases provide us with a chit into B cell development and activation. Furthermore, findings on the responses to T cell-independent antigens, and repertoire analysis of antibodies are also crucial for B cell regulation. Therefore, this workshop selected topics Autoimmune diseases, B cell development, T-independent responses, adjuvants, and Repertoire.
WS13-01-O/P	Transcriptional signature of anergy in naturally occurring self-reactive B cells Ryosuke Hiwa ^{1,2)} , John P. Huizar ²⁾ , James L. Mueller ²⁾ , Julie Zikherman ²⁾ Department of Rheumatology and Clinical Immunology, Kyoto University Hospital, Kyoto, Japan, ²⁾ Division of Rheumatology, Rosalind Russell and Ephraim P. Engleman Arthritis Research Center, Department of Medicine, UCSF, San Francisco, CA, USA
WS13-03-O/P	Immunological functions of Castor1 in B cells Takeshi Kusuda ¹⁾ , Toshihiko Komai ¹⁾ , Tomohisa Okamura ^{1,2)} , Keishi Fujio ¹⁾

The COMMD3/8 complex is a potential therapeutic target for autoimmune diseases

 \bigcirc Taiichiro Shirai $^{1)}$, Akiko Nakai $^{1,\,2)}$, Kazuhiro Suzuki $^{1,\,2,\,3)}$

WS13-04-O/P

Immunological Diseases, Graduate School of Medicine, The University of Tokyo

¹⁾Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Suita, Osaka, Japan, ²⁾Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Suita, Osaka, Japan, ³⁾Center for Infectious Disease Education and Research, Osaka University, Suita, Osaka, Japan

¹⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ²⁾Department of Functional Genomics and

WS13-05-O/P	IL-15-producing splenic B cells play pathogenic roles in the development of autoimmune hepatitis — Sota Fujimori ^{1,2)} , Nobuhiro Nakamoto ¹⁾ , Takanori Kanai ¹⁾
	¹⁾ Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, ² Research Unit Immunology & Inflammation, Innovative Research Division, Mitsubishi Tanabe Pharma Corporation
WS13-06-O/P	Essential function for EMC1(ER membrane complex subunit1) in Ca ²⁺ influx and B cell development
	Kazuhiko Kawata ¹⁾ , Chie Kikutake ²⁾ , Mikita Suyama ²⁾ , Yoshihiro Baba ¹⁾ Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²⁾ Division of Bioinformatics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS13-07-O/P	miR-195 accomplishes B cell development without EBF1 by regulating transcription factors.
	○ Yuji Miyatake ¹⁾ , Tomokatsu Ikawa ²⁾ , Ken-Ichi Hirano ³⁾ , Katsuto Hozumi ³⁾ , Kiyoshi Ando ⁴⁾ , Hiroshi Kawamoto ⁵⁾ , Ai Kotani ¹⁾
	¹⁾ Department of Advanced Medical Science, Tokai University School of Medicine, Isehara, Japan, ²⁾ RIKEN Research Center for Allergy and Immunology, Yokohama, Japan, ³⁾ Department of Immunology, Tokai University School of Medicine, Isehara, Japan, ⁴⁾ Department of Hematology, Tokai University School of Medicine, Isehara, Japan, ⁵⁾ Department of Immunology, Institute for Frontier Life and Medical Science, Kyoto University, Kyoto, Japan
WS13-10-O/P	The mechanism for T cell-independent B cell activation by the bacterial polysaccharide dexstran
	O Yuming Huang ^{1,2)} , Kana Matsumura ¹⁾ , Nazim Medzhidov ¹⁾ , Toshitaro Takata ¹⁾ , Miao Tang ¹⁾ , Takeshi Tsubata ²⁾ Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University., ²⁾ Department of Pathology, Nihon University School of Dentistry
WS13-11-O/P	The importance of IL-1 - IL-1 receptor signaling to T-cell-independent type 2 responses
	 Mari Tenno, Tang Xuyang, Takumi Umezu, Daisuke Kitamura Division of Cancer Cell Biology, Research Institute for Biomedical Sciences (RIBS) Tokyo University of Science
WS13-13-O/P	Adjuvant Activity of Chemically Synthesized Alcaligenes Lipid A to Augment Immune Responses against Haemophilus Influenzae Type B Conjugate Vaccine
	☐ Zilai Liu ^{1, 2)} , Koji Hosomi ¹⁾ , Atsushi Shimoyama ²⁾ , Ken Yoshii ^{1, 2)} , Xiao Sun ^{1, 2)} , Haruki Yamaura ²⁾ , Davie Kenneth ²⁾ , Azusa Saika ¹⁾ , Takahiro Nagatake ^{1, 3)} , Hiroshi Kiyono ^{4, 5, 6)} , Koichi Fukase ²⁾ , Jun Kunisawa ^{1, 2, 4, 7, 8)}
	¹⁾ National Institutes of Biomedical Innovation, Health, and Nutrition, Osaka, Japan, ²⁾ Osaka University, Osaka, Japan, ³⁾ Meiji University, Tokyo, Japan, ⁴⁾ The University of Tokyo, Tokyo, Japan, ⁵⁾ University of California San Diego, California, United States, ⁶⁾ Chiba University, Chiba, Japan, ⁷⁾ Kobe University, Hyōgo, Japan, ⁸⁾ Waseda University, Tokyo, Japan
WS13-14-O/P	Recombinant anti-RP105 provides an adjuvant effect for gene immunization against influenza
	Tatsuya Yamazaki, Mrityunjoy Biswas, Masanori Inui, Susumu Tomono, Sachiko Akashi-Takamura Department of Microbiology and Immunology, Aichi Medical University, School of Medicine, Aichi, Japan
WS13-17-O/P	Evaluation of immune response induced by influenza vaccines using the repertoire analysis of variable genes of antibodies
	Hinako Ohkusa ¹⁾ , Mizuki Uryu ¹⁾ , Shinichi Fujihara ¹⁾ , Kayoko Sato ²⁾ , Hideki Asanuma ³⁾ , Makoto Tsuiji ¹⁾ Department of Microbiology, Hoshi University School of Pharmacy and Pharmaceutical Sciences, Tokyo, Japan., ²⁾ Department of Virology 3, National Institute of Infectious Diseases, Tokyo, ³⁾ Center for Influenza and Respiratory Virus Research, National Institute of Infectious Diseases,

Tokyo, Japan

WS14 Innate immunity (1) Innate inflammation and disease

14:05 ~ 15:20 Room F

Chairpersons: Hideyuki Yanai, Takashi Satoh

Recent studies of innate immunity clearly indicate that there are various exogenous and endogenous ligands such as pathogen associated molecular patterns (PAMPs), danger-associated molecular patterns (DAMPs), microbiota metabolite and lipid, and they are involved in induction of acute or chronic inflammation. Also, such inflammation is associated with homeostasis or development/exacerbation of various diseases as microbial and virus infection, tumor progression, fibrosis, neural disorder and so on. In addition, drugs targeting these phenomena are also being developed. Thus, this research field is active and growing rapidly. In this workshop, we will focus on inflammation and disease related to innate immunity. We would like to expect your active participation and fruitful discussion in this session.

WS14-03-O/P	HMGB1 in cancer and inflammatory diseases Hideyuki Yanai Research Center for Advanced Science and Technology, The University of Tokyo
WS14-06-O/P	Short-term epigenetic memory in monocytes induced by BNT162b2 mRNA vaccine Yuta Yamaguchi, Yasuhiro Kato, Atsushi Kumanogoh Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine, Suita, Japan.
WS14-09-O/P	Molecular mechanisms by which mTORC1 drives granulomas Ryosuke Hiranuma, Ryota Sato, Kensuke Miyake Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo
WS14-11-O/P	Impact of changes of the gut microbiota on the development of liver inflammation and fibrosis in a novel dietary mouse model of non-alcoholic steatohepatitis, "3-F mice" Kaichi Kasai ¹ , Yukihiro Furusawa ¹ , Yuki Tada ¹ , Naoya Igarashi ¹ , Koichi Tsuneyama ² , Yoshinori Nagai ¹ Pepartment of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, Department of Pathology and Laboratory Medicine, Tokushima University Graduate School
WS14-13-O/P	Direct activation of microglia by β-glucosylceramide causes phagoptosis of neurons that aggravates Gaucher disease Takashi Shimizu ^{1, 2)} , Charles Schutt ¹⁾ , Sho Yamasaki ^{1, 2)} Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²⁾ Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Osaka, Japan
WS14-14-O/P	Novel lipid metabolism prevents inflammation for neural repair after ischemic stroke Akari Nakamura ^{1, 2)} , Seiichiro Sakai ²⁾ , Makoto Murakami ³⁾ , Takashi Shichita ²⁾ Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan, Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, Laboratory of Microenvironmental and Metabolic Health Science, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
WS14-15-O/P	Modeling bleomycin-induced lung injury using primary murine cell-derived lung organoids Bin Wu, Shigeyuki Shichino, Satoshi Ueha, Kouji Matsushima Division of molecular regulation of inflammatory and immune diseases. Institution of Biomedical Research. Tokyo University of Science

WS15 Autoimmune diseases -Systemic-

14:05 ~ 15:20 Room G

Chairpersons: Isao Matsumoto, Masayuki Nishide

Research on the pathogenesis of systemic autoimmune diseases helps us understand the complexity of the immune system and the triggers that lead to its dysfunction. Molecular-targeted therapies that have emerged from basic research save many patients across the world. However, there are still many autoimmune diseases whose pathogenesis remains uncovered, and the next "revolution" is eagerly awaited. This workshop will explore the diverse mechanisms of autoimmune diseases such as autoimmune arthritis, systemic lupus erythematosus, and Sjogren's syndrome. We encourage all attendees to participate in active and open discussion. Each presentation will have 6 min talk + 2 min discussion.

WS15-01-O/P	SLE stratification based on BAFF and IFN-I bioactivity for biologics and implications of BAFF produced by glomeruli in lupus nephritis
	○ Eri Itotagawa, Takehiro Hirayama, Tatsunori Jo, Kohei Tsujimoto, Yasuhiro Kato, Hyota Takamatsu, Atsushi Kumanogoh
	Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Japan
WS15-02-O/P	Transforming growth factor-β3 in the differentiation and function of T peripheral helper cells and its relationship to disease activity in patients with systemic lupus erythematosus Yu Shan
	The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan, Kitakyushu, Japan
WS15-03-O/P	DOCK8-expressing T follicular helper cells newly generated beyond self-organized criticality cause systemic lupus erythematosus (SLE)
	Shunichi Shiozawa ^{1, 2, 3)} , Ken Tsumiyama ^{1, 2, 3)} , Yumi Miyazaki ^{1, 2)} , Kenichi Uto ²⁾ , Keiichi Sakurai ^{1, 3)} , Takahiko Horiuchi ¹⁾ , Tsukasa Matsubara ^{3, 3)} , Takashi Yamane ⁴⁾ , Yohei Mukai ⁵⁾ , Takuji Enya ⁶⁾ , Masaaki Miyazawa ⁶⁾ , Kazuko Shiozawa ⁷⁾ ¹⁾ Kyushu University Beppu Hospital, Beppu, Japan, ²⁾ Kobe University, Kobe, Japan, ³⁾ Institute for Rheumatic Diseases, Kato-shi, Japan, ⁴⁾ Kakogawa Central City Hospital, Kakogawa, Japan, ⁵⁾ KAN Research Institute, Inc., Kobe, Japan, ⁶⁾ Department of Immunology, Kindai University, Osaka-Sayama, Osaka, Japan, ⁷⁾ Hyogo Prefectural Kakogawa Medical Center, Kakogawa, Japan
WS15-04-O/P	Vorinostat ameliorates the onset and severity of SLE prone mice by inhibiting IFN-I production.
	Takehiro Hirayama ^{1, 2)} , Daiki Nagira ³⁾ , Hachiro Konaka ⁴⁾ , Hyota Takamatsu ^{1, 2)} , Atsushi Kumanogoh ^{1, 2, 5, 6)} Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Department of Immunopathology, WPI, Immunology Frontier Research Center (iFReC), Osaka University, Graduate School of Medicine, Osaka University, Department of internal medicine, Nippon life Hospital, Center for Infectious Disease Education and Research (CiDER), Osaka University, Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives
WS15-05-O/P	Pathogenic neuropsychiatric effect of stress-induced microglial interleukin 12/23 axis in SLE
	○ Yuki Tanaka ^{1,2,3)} , Nobuya Abe ^{1,4)} , Masato Tarumi ^{1,4)} , Rie Hasebe ^{1,2,3)} , Tatsuya Atsumi ⁴⁾ , Masaaki Murakami ^{1,2,3)} ¹¹Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²¹National Institutes for Quantum and Radiological Science and Technology, Quantum Immunology, ³¹Division of Molecular Neuroimmunoloy, Department of Homeostatic Regulation, National Institute for Physiological Sciences, National Institutes of Natural Sciences, ⁴¹Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan
WS15-06-O/P	CD153 ⁺ CD4 ⁺ T cells exacerbate the autoimmune pathology via the interaction with CD30 ⁺ cells in salivary
	glands in Sjögren's syndrome
	○ Kunihiro Otsuka ^{1,2)} , Hiroyuki Kondo ¹⁾ , Shin-Ichi Tsukumo ¹⁾ , Rieko Arakaki ²⁾ , Mami Sato ²⁾ , Hideo Yagita ³⁾ , Naozumi Ishimaru ²⁾ , Koji Yasutomo ¹⁾
	¹⁾ Department of Immunology and Parasitology, Tokushima University Graduate School of Medicine, ²⁾ Department of Oral Molecular Pathology, Tokushima University Graduate School of Medicine, ³⁾ Department of Immunology, Juntendo University School of Medicine
WS15-07-O/P	Role of Mucin 19 in Pathogenesis of a Mouse Model for Sjögren's Syndrome
	O Yuki Kawahito, Kai Tamura, Mami Sato, Kunihiro Otsuka, Takaaki Tsunematsu, Naozumi Ishimaru

Department of Oral Molecular Pathology, Tokushima University School of Dentistry, Tokushima, Japan

WS15-08-O/P	Synovial phenotyping in Japanese RA patients using Risa Yoshihara ¹⁾ , Haruka Tsuchiya ¹⁾ , Yasunori Omata ²⁾ , H Takumi Matsumoto ²⁾ , Hiroaki Harada ¹⁾ , Hirofumi Shoda ¹⁾ , Sa Department of Allergy and Rheumatology, Graduate School of Medicine, Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo,	laruka Takahashi ¹⁾ , Akihiro Uchio ²⁾ , Yuji Maenohara ²⁾ , akae Tanaka ²⁾ , Tomohisa Okamura ³⁾ , Keishi Fujio ¹⁾ e, The University of Tokyo, Tokyo, Japan, ²⁾ Department of Orthopaedic lapan, ³⁾ Department of Functional Genomics and Immunological
WS15-09-O/P	Differential TCR repertoire for joint self-antigens dete	
	regulatory T and arthritogenic T cells in T cell-mediat Yusuke Takeuchi ^{1, 2)} , Daiya Ohara ¹⁾ , Hitomi Watanabe ¹⁾ , Ohara ¹⁾ Laboratory of Integrative Biological Science, Institute for Life and Medic Rheumatology and Clinical Immunology, Graduate School of Medicine, Institute of Medicine, Insti	Gen Kondoh ¹⁾ , Akio Morinobu ²⁾ , Keiji Hirota ¹⁾ cal Sciences, Kyoto University, Kyoto, Japan, ²⁾ Department of
WS16 Toler	rance and Immune suppression-1	14:05 ~ 15:20 Room H Chairpersons: Taku Okazaki, Noriko Komatsu
co-recepto autoimmur discuss the	echanisms to maintain immune tolerance. Due to the recent ors, immune tolerance is rediscovered as a promising target ne diseases, transplant rejection, and fulminant infection. In e mechanisms for their differentiation, expansion, maintena on and 2 min for Q&A. We welcome your participation and act	of immunotherapy for various diseases such as cancer, this session, we focus on regulatory T and B cells and ance, and activation. Each speaker is allotted 5 min for
WS16-01-O/P	The Foxp3 ^{A384T} mutation impairs TCR-induced prolifer c-Myc induction Suzu Kawagoe, Maori Oda, Ryuichi Murakami, Shohei H Laboratory of Immunology and Microbiology, Graduate School of Pharm	ori
WS16-02-O/P	The exon 5 of lkzf1 is required for Foxp3-dependent g regulatory T cells Kenji Ichiyama, Shimon Sakaguchi Immunology Frontier Research Center (IFReC), Osaka University, Japan	
WS16-04-O/P	Antigen-specific stimulation induced peripherally desepigenome and orchestrate oral tolerance Masaya Arai ¹⁾ , Ryoji Kawakami ^{1,2)} , Norihisa Mikami ¹⁾ , Yan Department of Experimental Immunology, Immunology Frontier Research Experimental Immunology, Institute for Life and Medical Sciences, Kyoto	mami Nakamura ¹⁾ , Shimon Sakaguchi ^{1,2)} ch Center (IFReC), Osaka University, Osaka, Japan, ²⁾ Department of

WS16-05-O/P Tonic TCR and IL-1b signaling mediate momentary and durable phenotypic alterations in naive CD4⁺ T cells

O Takashi Sekiya

Department of Immune Regulation, National Center for Global Health and Medicine, Ichikawa, Chiba, Japan

WS16-06-O/P Identification of a novel intestinal dendritic cell subset drives Rorgt+ Treg differentiation

O Chengcheng Zou, Ichiro Taniuchi

Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences

WS16-07-O/P Development of the tolerogenic nanoparticle to induce antigen-specific regulatory T cells

 \bigcirc Hiroki Toriumi 1 , Li Shunyi 2 , Daisuke Takahashi 1 , Takanatsu Hosokawa 2 , Liu Yiwei 2 , Yusuke Kinashi 1 , Seiga Komiyama 1 , Takeshi Mori 2 , Koji Hase 1

¹⁾Division of Biochemistry, Graduate School of Pharmaceutical Science, Keio University, Tokyo, Japan, ²⁾Department of Applied Chemistry, Faculty of Engineering, Kyushu University, Fukuoka, Japan

WS16-08-O/P

Benian and harmful autoimmunity by manipulating the binding stability of self-peptides that influence the kinetics of tissue antigen-specific effector regulatory T cells

Youwei Lin^{1, 2)}. Shun Sakuraba³⁾. Chandirasegaran Massilamany⁴⁾. Jayagopala Reddy⁵⁾. Yoshimasa Tanaka⁶⁾. Sachiko Mivake7, Takashi Yamamura1,

¹⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Tokyo, JAPAN, ²⁾Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, Japan, 3 National Institutes for Quantum Science and Technology, Institute for Quantum Life Science, Kyoto, Japan, 4 Immuno-oncology CRISPR Therapeutics, Cambridge, USA, 5 School of Veterinary Medicine and Biomedical Sciences, University of Nebraska-Lincoln, Lincoln, USA, ⁶Nagasaki University Graduate School of Biomedical Science, Nagasaki, Japan, ⁷⁾Department of Immunology, Juntendo University School of Medicine, Tokyo, Japan

WS16-09-O/P

TRIM28 mediated Treg function underlies suppressive tumor immune environment

Hodaka Hayabuchi, Shunsuke Chikuma

Dept of Microbiology and Immunology, School of Medicine, Keio University, Tokyo, Japan

WS16-12-O/P

The effect of Oxytocin on ischemic resistance in recurrence of stroke

Ako Matsui, Yoshihiro Harada, Minako Ito

Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS16-15-O/P

An anti-CD22 antibody that expands regulatory B cells inhibits development of type 1 diabetes and allograft rejection in mouse models

Wang Long¹⁾, Shinji Kunitake²⁾, Ayaka Endo²⁾, Koji Atarashi³⁾, Takeshi Tsubata¹⁾

¹⁾Pathology Department, Nihon University School of Dentistry, ²⁾Immunology Department of Tokyo Medical and Dental University, ³⁾Department of Microbiology and Immunology, School of Medicine, Keio University

WS17 Cytokines and Chemokines-1

14:05 ~ 15:20 Room I

Chairpersons: Takayuki Yoshimoto, Yuriko Tanaka

Cytokines and chemokines are key molecules that play critical roles in a variety of biological and immunological aspects regarding the regulation of not only cell growth, differentiation and trafficking, but also various innate and adaptive immune responses. Dysregulation of their expression and signal transduction pathways often causes the development of various diseases including inflammatory, allergic and autoimmune diseases, as well as infectious and malignant neoplastic diseases. Therefore, the clarification of mechanisms to regulate their expression and signal transduction pathways leads to the elucidation of pathogenesis of these diseases and the development of therapeutic strategy against them. In this session, we will mainly focus on novel molecules and functions involved in the regulation of signal transduction pathways, cell trafficking, and innate immune responses.

WS17-01-O/P

DUSP3 regulates the STAT3-mediated signaling pathways

Yuichi Sekine¹⁾, Kenji Oritani²⁾, Tadashi Matsuda³⁾

¹⁾Kyoto Pharmaceutical University, ²⁾International University of Health and Welfare, ³⁾Hokkaido University

WS17-03-O/P

The role of TRAF5 in TLR2 expressed by B- and T-lymphocytes and macrophages

Mitsuki Azuma¹⁾, Hiroaki Saito¹⁾, Koyo Iwatani¹⁾, Wakana Imai¹⁾, Masashi Morita¹⁾, Naoto Ishii²⁾, Takanori So¹⁾

¹⁾Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan,

²⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS17-05-O/P

Anti-inflammatory effects of novel NF-KB inhibitory compounds in two inflammatory animal models

○ Hiroyuki Baba¹⁾, Tadashi Hosoya¹⁾, Yuma Kondo¹⁾, Ryosuke Ishida²⁾, Saki Hatsuzawa²⁾, Hiroyuki Kaqechika²⁾. Shinsuke Yasuda¹⁾

¹⁾Department of Rheumatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan,

²⁾Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University (TMDU), Tokyo, Japan

WS17-06-O/P	Mechanisms of pathogenesis induced by autoimmune disease-associated gene C8orf13 Shintaro Hojyo ^{1,2)} , Shuhei Shimoyama ^{1,3)} , Yuki Tanaka ²⁾ , Tatsuya Atsumi ³⁾ , Daisuke Kamimura ¹⁾ , Masaaki Murakami ^{1,2,4)} Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan, ²⁾ Group of Quantum Immunology, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology, Inage, Japan, ³⁾ Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ⁴⁾ Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institute of Natural Sciences, Okazaki, Japan
WS17-08-O/P	Innate immune responses triggered by CpG DNA-CXCL14 complex is mediated by Immunogloblin superfamily proteins Risa Saito ^{1, 2)} , Kosuke Tanegashima ²⁾ , Takahiko Hara ^{1, 2, 3)} Grad. Sch. of Tokyo Medical and Dental Univ., ²⁾ Stem Cell Project, Tokyo Metropol. Inst. Med. Sci., ³⁾ Grad. Sch. Tokyo Metropol. Univ.
WS17-09-O/P	Rap1 facilitates cell polarization via RhoA signaling in T cells Yoshihiro Ueda¹, Koichiro Higasa², Yuji Kamioka¹, Naoyuki Kondo¹, Shunsuke Horitani³, Yoshiki Ikeda¹, Takataro Fukuhara³, Yoshinori Fukui⁴, Tatsuo Kinashi¹) The Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University, ²The Department of Genome Analysis, Institute of Biomedical Science, Kansai Medical University, ³Division of Gastroenterology and Hepatology, the Third Department of Internal Medicine, Kansai Medical University, ⁴Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University
WS17-10-O/P	Crosstalk between the β ₂ -adrenergic receptor and chemokine receptors in lymphocyte recirculation through lymph nodes Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} 1)Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan., 2)Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan., 3)Center for Infectious Disease Education and Research, Osaka University
WS17-11-O/P	Ligand-independent function of β2-adrenergic receptor affects IgE-mediated Ca2+-influx in mast cells Kei Nagao ^{1,2)} , Yuki Fujita ^{1,2)} , Hitoshi Urakami ¹⁾ , Atsunori Kamiya ¹⁾ , Sachiko Miyake ²⁾ , Soichiro Yoshikawa ^{1,2)} Department of Cellular Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Department of Immunology, Juntendo University School of Medicine
WS17-12-O/P	Extracellular DJ-1 has a essential role in the induction of sterile inflammation after ischemic stroke Koutarou Nakamura ^{1, 2)} , Ryuki Koyama ²⁾ , Takashi Shichita ²⁾ Graduate School of Frontier Sciences, The University of Tokyo, Tokyo, JAPAN, Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan

WS17-13-O/P Conditioned medium of immortalized stem cells from human exfoliated deciduous tooth exhibit protective effect on the peripheral neuropathy of experimental autoimmune neuritis

○ Eri Sakamoto¹¹, Hideaki Hasegawa²¹, Aruma Watanabe³¹, Yasuhiro Katahira⁴¹, Satomi Miyakawa⁵¹, Izuru Mizoguchi⁶¹, Takayuki Yoshimoto⁻¹

¹⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan, ²⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan, ³⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan, ⁴⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan, ⁵⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan, ⁶⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan, ⁷⁾Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan

WS18 T cell function and diseases-2 (Disease models)

15:30 ~ 16:45 Room B

Chairpersons: Masato Kubo, Motoko Kimura

T cells require proper activation and differentiation processes for host defense against pathogens. Multiple mechanisms, including TCR signaling, costimulatory and inhibitory molecules, cytokines, and metabolites exert key controls on T cell function. A comprehensive understanding of the molecular mechanisms laying the T cell activation and differentiation are important subjects for future therapeutic application as well. In this session, we will discuss several topics on T cell signaling and T cell subsets related to immune-senescence, autoimmune diseases, and anti-tumor immune responses. We hope active participation and discussion in oral and poster presentations. [Each presentation is expected to finish within 7 minutes followed by 2 minutes of discussion.]

WS18-01-O/P	RIPK1 blocks T cell senescence mediated by RIPK3 and caspase-8
W310 01 0/1	○ Takayuki Imanishi, Takashi Saito
	Laboratory for Cell Signaling, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Japan
WS18-02-O/P	Role of Bcl6 in DNA methylation-mediated T cell senescence and tumorigenesis Hiroko Nakatsukasa ¹⁾ , Akihiko Yoshimura ²⁾ Plaboratory of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan, Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan
WS18-03-O/P	Human GC-Tfh cells differentiate into IL-10+ follicular T cells with regulatory functions
N310 03 0/1	Shusei Fujioka ^{1, 2)} , Yusuke Imoto ²⁾ , Mayu Fujioka ^{1, 2)} , Hiroyuki Yoshitomi ^{1, 2)} , Yasuaki Hiraoka ²⁾ , Hideki Ueno ^{1, 2)} Department of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾ Institute for the Advanced Study of Human Biology (ASHBi), Kyoto, Japan
WS18-04-O/P	Phenotypic and functional analyses reveal self-driven memory-phenotype CD4 ⁺ T lymphocytes as a
	heterogeneous population distinct from foreign antigen-specific memory cells
	Takeshi Kawabe ^{1, 2, 3)} , Thomas Ciucci ^{4, 5)} , Kwang Soon Kim ⁶⁾ , Shunichi Tayama ¹⁾ , Akihisa Kawajiri ¹⁾ , Naoto Ishii ¹⁾ , Dragana Jankovic ²⁾ , Jinfang Zhu ³⁾ , Jonathan Sprent ^{7, 8)} , Remy Bosselut ⁴⁾ , Alan Sher ²⁾ The partment of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan., Immunobiology Section, Laboratory of Parasitic Diseases, National Institutes of Health, Bethesda, MD, USA., Molecular and Cellular Immunoregulation Section, Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA., Laboratory of Immune Cell Biology, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA., David H. Smith Center for Vaccine Biology and Immunology, Department of Microbiology and Immunology, University of Rochester, Rochester, NY, USA., Department of Integrative Biosciences and Biotechnology, Pohang University of Science and Technology, Pohang, Republic of Korea., Immunology Division, Garvan Institute of Medical Research, Darlinghurst, NSW, Australia.
WS18-05-O/P	Nuclear receptor ROR_{α} regulates bystander activation of memory T cells
	 Kensuke Takada, Zimeng Cai, Hironobu Mita, Mina Kozai, Shangyi Wang, Mutsumi Inaba Laboratory of Molecular Medicine, Faculty of Veterinary Medicine, Hokkaido University
WS18-06-O/P	Charcterization of self glycolipids presented by CD1d that activate NKT cells
	Yuki Hosono ^{1,2,3} , Noriyuki Tomiyasu ⁴ , Yoshihiro Izumi ⁴ , Akihiro Imamura ⁵ , Eri Ishikawa ^{1,2} , Atsushi Kumanogoh ^{3,6} , Hideharu Ishida ⁵ , Takeshi Bamba ⁴ , Sho Yamasaki ^{1,2,6}) ¹)Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Suita, Japan, ²)Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ³)Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Suita, Japan, ⁴)Division of Metabolomics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ⁵)Department of Applied Bioorganic Chemistry, Gifu University, Gifu, Japan, ⁶)Center for Infectious Disease Education and Research, Osaka University, Suita, Japan
WS18-07-O/P	A novel subset of Treg controls the progression of colorectal cancer in humans and mice
	○ Kazushige Obata-Ninomiya, Steven F. Ziegler

Benaroya Research Institute, WA, US

WS18-08-O/P

Critical roles of an endoribonuclease N4bp1 in regulating CD8 T cell homeostasis and cancer immunosurveillance

O Guohao Liu, Yee Kien Chong, Osamu Takeuchi

Department of Medical Chemistry Graduate School of Medicine, Kyoto University

WS19 Mucosal and Skin Surface Barrier

15:30 ~ 16:45 Room C

Chairpersons: Reiko Shinkura, Yoshiyuki Goto

Mucosal and skin lesions serve as a surface barrier against numerous foreign antigens. The surface barrier is a multi-layered structure constructed by epithelial cells, intraepithelial lymphocytes, and innate and adaptive immune cells. These immunocompetent cells interact cooperatively for the maintenance of mucosal and skin homeostasis. Microbiota that resides on the skin and mucosal surface are unique environmental factors that modulate the function and physiology of host immune-and epithelial cells. Aberrant crosstalk between microbiota and host immune- and epithelial cells predisposes to the host inflammatory diseases such as inflammatory bowel diseases. This workshop aims to discuss and exchange recent findings on the molecular and cellular mechanism of mucosal and skin barrier system that is based on the unique crosstalk between microbes and host immune- and epithelial cells.

WS19-01-O/P	Roles of Disialylated Glycan in the Gut Mucosal Barrier
	○ Mugen Taniguchi ^{1, 2)} , Ryu Okumura ^{1, 3)} , Kiyoshi Takeda ^{1, 3)}
	¹⁾ Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Suita, Japan., ²⁾ Infectious Diseases Unit, Department of Medical Innovations, New Drug Research Division, Otsuka Pharmaceutical Co., Ltd., Tokushima, Japan., ³⁾ WPI Immunology Frontier Research Center, Osaka University, Suita, Japan.
WS19-02-O/P	The protective function of conjunctival goblet cell mucin sialylation
	○ Tomoaki Ando¹¹, Moe Matsuzawa¹,²,³¸ Saaya Fukase¹,²,³¸ Meiko Kimura¹,²,³¸ Yasuharu Kume¹,²,³¸ Kumi Izawa¹¹, Ayako Kaitani¹¹, Ko Okumura¹, Akira Matsuda³¹, Akira Murakami³¸ Nobuyuki Ebihara²,³¸ Jiro Kitaura¹,⁴¹
	¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine (Tokyo, Japan), ²⁾ Department of Ophthalmology, Juntendo University Urayasu Hospital (Chiba, Japan), ³⁾ Department of Ophthalmology, Juntendo University Graduate School of Medicine, ⁴⁾ Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine (Tokyo, Japan)

WS19-03-O/P

Tuft cell-derived IL-25 induced by cecectomy ameliorates colitis development

○ Shunya Hatai¹⁾, Yasutaka Motomura^{1, 2, 3)}, Koji Hosomi⁴⁾, Jun Kunisawa⁴⁾, Kazuyo Moro^{1, 2, 3, 5)}

¹⁾Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Osaka University Graduate School of Medicine,
²⁾Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS),
³⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center,
⁴⁾Laboratory of Vaccine Materials, Center for Vaccine and Adjuvant Research, and Laboratory of Gut Environmental System, National Institutes of Biomedical Innovation, Health, and Nutrition (NIBIOHN),
⁵⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School of Frontier Biosciences

WS19-12-O/P

Intracellular metabolic adaptation of intraepithelial CD4*CD8aa* T lymphocytes

○ Yosuke Harada¹⁾, Tomohisa Sujino²⁾, Kentaro Miyamoto³⁾, Ena Nomura¹⁾, Takanori Kanai¹⁾

¹⁾Department of Gastroenterology and Hepatology, School of Medicine, Keio University, Tokyo, Japan, ²⁾Center for Diagnostic and Therapeutic Endoscopy, Keio University Hospital, Tokyo, Japan, ³⁾Miyarisan Pharm. Co. Ltd. Tokyo, Japan

WS19-13-O/P

Epithelial HVEM maintains intraepithelial T cell survival and contributes to host protection

Daisuke Takahashi^{1, 2)}, Goo-Young Seo¹⁾, Qingyang Wang¹⁾, Zbigniew Mikulski¹⁾, Mitchell Kronenberg¹⁾

1)La Jolla Institute for Immunology, ²⁾Keio University Faculty of Phamacy

WS19-14-O/P

Basolateral sorting of CD166 in intestinal epithelial cells by clathrin adaptor protein AP-1B is required for interaction with intraepithelial lymphocytes

○ Ryohtaroh Matsumoto¹⁾, Kosuke Ogata²⁾, Daisuke Takahashi¹⁾, Yusuke Kinashi¹⁾, Takahiro Yamada¹⁾, Aiko Saeki¹⁾, Hiroshi Ohno³⁾, Yasushi Ishihama²⁾, Shunsuke Kimura¹⁾, Koji Hase¹⁾

¹⁾Division of Biochemistry, Graduate School of Pharmaceutical Science, Keio University, ²⁾Department of Molecular & Cellular BioAnalysis, Graduate School of Pharmaceutical Sciences, Kyoto University, ³⁾Laboratory of Intestinal Ecosystem, RIKEN Center for Integrative Medical Science

WS19-18-O/P	Intestinal barrier dysfunction by intestine-specific AP-1B deficiency causes IgA nephropathy-like symptoms
	Yusuke Kinashi ¹⁾ , Daisuke Takahashi ¹⁾ , Hiroshi Ohno ²⁾ , Shunsuke Kimura ¹⁾ , Koji Hase ¹⁾ ¹⁾ Division of Biochemistry, Graduate School of Pharmaceutical Science, Keio University, Tokyo, Japan, ²⁾ Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
WS19-19-O/P	Selective IgA deficiency induces spontaneous inflammation in the ileum
	Takashi Nagaishi ¹⁾ , Daiki Yamada ¹⁾ , Tadahiko Inoue ¹⁾ , Richard S. Blumberg ²⁾ , Ryuichi Okamoto ¹⁾ , Takahiro Adachi ³⁾ Toepartment of Gastroenterology, Graduate School of Medical Science, Tokyo Medical and Dental University, Tokyo, Japan., Gastroenterology Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA., Department of Precision Health, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan.
WS19-20-O/P	Detection of S-IgA antibodies in plasma of neonates and identification of the source
	○ Kaori Ito, Kohta Saukurai, Mutsumi Furukawa, Tomonori Nochi
	International Education and Research Center for Food and Agricultural Immunology, Graduate School of Agricultural Science, Tohoku University, Miyagi, Japan
WS20 Der	Idritic cells and macrophages-2: Myeloid cell linage and their differentiation
	15:30 ~ 16:45 Room D
	Chairpersons: Yasutaka Okabe, Masako Kohyama
	cells (DCs), macrophages, and monocytes, collectively called myeloid cells, are found in almost all tissues in the
	as emerged that myeloid cells comprise a variety of subsets, and they are highly heterogeneous populations in terms
	henotypes and functions. In this session, we will discuss recent progress in our understanding of the differentiation
and polar	ization of myeloid cells as well as the identification of novel subsets.
WS20-02-O/P	Transcriptomic and functional analyses uncover an immature subpopulation of basophils in the bone
	marrow and FoxO1 as a transcription factor involved in the regulation of basophil responsiveness
	◯ Junya Ito ¹⁾ , Kensuke Miyake ¹⁾ , Kazufusa Takahashi ¹⁾ , Shigeyuki Shichino ²⁾ , Hajime Karasuyama ¹⁾
	¹⁾ Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, ²⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute of Biomedical Sciences, Tokyo University of Science, Noda, Japan
WS20-04-O/P	Activation of retinoid X receptor promotes differentiation of monocytes into CX3CR1 ^{hi} macrophages in the
	colon
	○ Wakana Ohashi ¹⁾ , Masayoshi Onuki ¹⁾ , Eiji Umemoto ²⁾ , Masaru Ishii ³⁾ , Kiyoshi Takeda ⁴⁾ , Hiroki Kakuta ⁵⁾ , Koji Hase ¹⁾ ¹¹Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, ²¹Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan, ³¹Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴¹Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁵¹Division of Pharmaceutical Sciences, Graduate School of Medicine Dentistry and Pharmaceutical Sciences, Okayama University, Okayama Japan
WS20-05-O/P	Identification of differentiation pathway for neutrophil-like monocytes during emergency hematopoiesis
	○ Naoki Ikeda ¹⁾ , Ayaka Iwata ¹⁾ , Takashi Kamatani ²⁾ , Tatsuhiko Tsunoda ^{3,4)} , Yoshihiro Hayashi ⁵⁾ , Hironori Harada ⁵⁾ , Yuka Harada ⁶⁾ , Masato Tanaka ¹⁾ , Kenichi Asano ¹⁾
	¹⁾ Lab. of Immune Regulation. Tokyo University of Pharmacy and Life Sciences. ²⁾ M&D. Data Science Center. Tokyo Medical and Dental University.

¹⁾Lab. of Immune Regulation, Tokyo University of Pharmacy and Life Sciences, ²⁾M&D Data Science Center, Tokyo Medical and Dental University, ³⁾Graduate School of Science, The University of Tokyo, ⁴⁾RIKEN Center for Integrative Medical Sciences, ⁵⁾Lab. of Oncology, Tokyo University of Pharmacy and Life Sciences, ⁶⁾Department of Clinical Laboratory, Komagome Hospital

CSF1-producing cells in the intestine contributes to the maintenance of macrophages

O Daichi Nonaka, Eriko Sumiya, Shinichiro Sawa Medical institute of bioregulation Kyushu university

WS20-09-O/P

WS20-10-O/P

Molecular mechanisms of short-chain fatty acids-mediated transactivation of integrin genes in dendritic cells

O Weiting Zhao, Kazuki Nagata, Naoto Ito, Masakazu Hachisu, Chiharu Nishiyama Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan

WS20-15-O/P	Migratory CD301b ⁺ cDC2 cells instruct the fate of effector CD4 T cells through cognate interactions Naoya Tatsumi, Yosuke Kumamoto Rutgers New Jersey Medical School, Newark, NJ, USA
WS20-19-O/P	The aryl hydrocarbon receptor instructs the immunomodulatory profile of a subset of Clec4a4* eosinophil unique to the small intestine Jun Kasamatsu ^{1, 2)} , Wei-Le Wang ²⁾ , Susan Gilfillan ²⁾ , Marina Cella ²⁾ , Marco Colonna ²⁾ Department of Intelligent Network for Infection Control Tohoku University Graduate School of Medicine, Department of Pathology and Immunology, Washington University School of Medicine in Saint Louis
WS20-20-O/P	Identification of a novel macrophage subset involved in pulmonary fibrosis by intravital imaging techniques Akio Suzuki, Junichi Kikuta, Masaru Ishii Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University, Osaka, Japan
Allergic ro antibodies This sessi discuss of in the dev	chairpersons: Akira Shibuya, Haruka Miki esponses involve a variety of players such as hematopoietic and non-hematopoietic cells, cytokines, and IgE. To understand and control allergic diseases, it is essentially required to clarify how these players interact each other. On focuses on type 2 immune cells and cytokines Th2 and ILC2 and IL-4 and IL-13, respectively. In addition, we also mast cells and basophils, effector cells for allergic responses. We will discuss on how these players are involved elopment of allergic airway inflammation, allergic rhinitis, anaphylaxis, food allergy, atopic dermatitis, and contact itivity, and try to explore novel therapeutic approaches to intractable allergic diseases.
WS21-01-O/P	Tigit mediates activation-induced cell death of ILC2s Toshiki Yamada ^{1, 2)} , Akane Fuchimukai ¹⁾ , Megumi Tatematsu ¹⁾ , Shunsuke Takasuga ¹⁾ , Hideyuki Yoshida ³⁾ , Kazuko Shibuya ⁴⁾ , Akira Shibuya ^{4, 5)} , Takashi Ebihara ¹⁾ Department of Medical Biology, Akita University Graduate School of Medicine, Department of Otorhinolaryngology-Head and Neck Surgery, Akita University Graduate School of Medicine, Polycological Transcriptomics, RIKEN Center for Integrative Medical Sciences, Department of Immunology, Faculty of Medicine, University of Tsukuba, Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba
WS21-02-O/P	Lung local IL-7 affect the maintenance, distribution, and activation of ILC2 in allergic airway inflammations Daichi Takami, Shinya Abe, Akihiro Shimba, Koichi Ikuta Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan
WS21-03-O/P	The role of local Th2 activation in the development of allergic rhinitis Saya Tezuka, Kazufumi Matsushita, Etsushi Kuroda Department of Immunology, Hyogo Medical University, Hyogo, Japan
WS21-04-O/P	The role of IL-13 on dendritic cells is critical for type 2 immune responses Yasuyo Harada, Masato Kubo Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan
WS21-05-O/P	The anti-allergic effects of short chain fatty acids and niacin targeting IgE-dependent mast cell activation via modulating GPCR-signaling of EP3 and GPR109A, and by epigenetic regulation Daisuke Ando ¹⁾ , Kazuki Nagata ¹⁾ , Tsubasa Ashikari ¹⁾ , Kandai Ito ¹⁾ , Naoto Ito ¹⁾ , Makoto Arita ^{2,3)} , Chiharu Nishiyama ¹⁾ Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan, ²⁾ Graduate School of Pharmaceutical Sciences, Keio University, Tokyo, Japan, ³⁾ RIKEN Center for Integrative Medical Science, Kanagawa, Japan

WS21-06-O/P	Development of a murine model for oral allergy syndrome to identify IgE cross-reactive pollen and food allergens
	Risa Yamamoto ^{1, 2)} , Anna Kamei ^{1, 3)} , Kumi Izawa ¹⁾ , Tomoaki Ando ¹⁾ , Ayako Kaitani ¹⁾ , Akie Maehara ¹⁾ , Yasuharu Kume ^{1, 4)} , Hexing Wang ^{1, 3)} , Koji Tokushige ^{1, 3)} , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Jiro Kitaura ¹⁾ ¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²⁾ Juntendo University School of Medicine (5th year medical student), Tokyo, Japan, ³⁾ Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine, Tokyo, Japan, ⁴⁾ Department of Ophthalmology, Juntendo University Urayasu Hospital, Chiba, Japan
WS21-07-O/P	The kappa opioid alleviates the OVA-induced food allergy via the brain-gut axis and immunomodulation Kazuki Nagata ¹⁾ , Hiroshi Nagase ²⁾ , Chiharu Nishiyama ¹⁾ Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan, ²⁾ University of Tsukuba, IIIS
WS21-08-O/P	Difamilast, a selective phosphodiesterase 4 inhibitor, suppresses IL-4 production by basophils and ameliorates atopic dermatitis in a murine model
	Kazufusa Takahashi ^{1, 2)} , Kensuke Miyake ¹⁾ , Junya Ito ¹⁾ , Hinano Shimamura ^{1, 3)} , Hajime Karasuyama ¹⁾ ¹⁾ Inflammation, Infection, Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, ²⁾ Depertment of Human Pathology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo,

WS21-09-O/P

miR-451a suppresses delayed-type hypersensitivity by regulating Th17 differentiation

Japan, ³⁾Depertment of Medical Science, Graduate School of Medical Sciences, Kitasato University, Kanapawa, Japan

○ Takanobu Yoshida^{1, 2)}, Ken Takashima¹⁾, Hiroyuki Oshiumi¹⁾

¹⁾Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, ²⁾Department of Pediatrics, Graduate School of Medical Sciences, Kumamoto University

WS22 Hematopoiesis and Immune Environment

15:30 ~ 16:45 Room F

Chairpersons: Tomokatsu Ikawa, Ari Itoh-Nakadai

All immune cells are derived from hematopoietic stem cells that are capable of self-renewal and differentiation into multilineage progenitors. Progenitors further proliferate and differentiate into diverse functional mature cells in the bone marrow or in the thymus for generating T cells. Each lymphoid organ has its specific microenvironment that orchestrates the development and homeostasis of the immune cells. Under inflammatory conditions, steady-state hematopoiesis switches to emergency myelopoiesis to give rise to the effector cell types to protect from infection and tissue damage. In this session, we will focus on the cellular and molecular mechanisms during immune cell development. We will also discuss hematopoietic dysregulation and malignancies.

Critical role of N⁶-methyladenosine modification deposited by METTL16 in hematopoiesis

Masanori Yoshinaga¹⁾, Michael C Bassik²⁾, Osamu Takeuchi¹⁾
Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Department of Genetics, Stanford University

Tracing the evolutionary history of T cells back to invertebrates

Yosuke Nagahata¹⁾, Ryota Kaitani¹⁾, Yutaka Satou²⁾, Hiroshi Kawamoto¹⁾
Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, Department of Zoology, Graduate School of Science, Kyoto University

WS22-03-O/P

Akkermansia muciniphila induces chronic extramedullary hematopoiesis through innate immune signals

Yuxin Wang^{1, 2)}, Tatsuya Morishima^{1, 3)}, Maiko Sezaki^{1, 3)}, Ryo Sato¹⁾, Gaku Nakato⁴⁾, Shinji Fukuda^{4, 5, 6)}, Yuhua Li^{2, 7)}, Hitoshi Takizawa^{1, 8)}

10Laboratory of Stem Cell Stress, International Research Center for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, Diversity, Kumamoto, Diversity, Kumamoto University, Kum

¹⁾Laboratory of Stem Cell Stress, International Research Center for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, ²⁾Zhujiang Hospital, Southern Medical University, Guangzhou, China, ³⁾Laboratory of Hematopoietic Stem Cell Engineering, IRCMS, Kumamoto University, Kumamoto, ⁴⁾Gut Environmental Design Group, Kanagawa Institute of Industrial Science and Technology, Kanagawa, ⁵⁾Institute for Advanced Biosciences (IAB), Keio University, Tokyo, ⁶⁾Transborder Medical Research Center, University of Tsukuba, Ibaraki, ⁷⁾Bioland Laboratory (Guangzhou Regenerative Medicine and Health Guangdong Laboratory), Guangzhou, Guangdong, China, ⁸⁾Center for Metabolic Regulation of Healthy Aging (CMHA), Kumamoto University, Kumamoto

WS22-04-O/P	Single cell genomics revealed critical molecules affecting cell fate of human stem/progenitor cells
	O Makoto Iwasaki ^{1,2)} , Joachim Luginguhehl ¹⁾ , Yoriko Saito ¹⁾ , Ari Itoh-Nakadai ¹⁾ , Leonard Shultz ³⁾ , Akifumi Takaori-Kondo ²⁾ , Jay Shin ¹⁾ , Fumihiko Ishikawa ¹⁾
	¹⁾ RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾ Department of Hematology and Oncology, Kyoto University, Kyoto, Japan ³⁾ The Jackson Laboratory, Bar Harbor, ME
WS22-05-O/P	Novel insights into heterogeneity of embryo-derived B cells divided two distinct subsets in adulthood
	○ Keiko Fujisaki¹¹, Nanako Okamoto¹.²², Aika Otaki¹¹, Yuhei Mizunoe¹¹, Shogo Okazaki³³, Chiharu Nishiyama²¹, Ryo Goitsuka¹¹
	¹⁾ Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾ Laboratory of Molecular Biology and Immunology, Department of Biological Science and Technology, Tokyo University of Science, ³⁾ Department of Microbiology, Nihon University School of Dentistry
WS22-06-O/P	The function of Polycomb group proteins during B cell development
	○ Mayumi Hirakawa, Tomokatsu Ikawa
	Tokyo University of Science Research Institute for Biomedical Sciences Division of Immunology and allergy
WS22-07-O/P	BCR-ABL-induced senescence-associated autophagy bring about maintenance of CML stemness
	Yamato Tanabe ¹ , Makoto Kurachi ¹ , Tomohisa Baba ² , Naofumi Mukaida ² Department of Molecular Genetics, Kanazawa University, ² Cancer Research Institute, Kanazawa University
WS22-08-O/P	Runx1 and Runx2 inhibit fibrotic conversion of cellular niches for hematopoietic stem cells
	○ Yoshiki Omatsu, Takashi Nagasawa Graduate School of Frontier Biosciences, Osaka University
WS22-09-O/P	Distinct binding properties of integrin adaptors talin1 and kindlin-3 to LFA1 and α 4 integrins modulate adhesive responses in static and shear-flow conditions
	Naoyuki Kondo, Yuji Kamioka, Yoshiki Ikeda, Yoshihiro Ueda, Tatsuo Kinashi Kansai Medical University
WS22-10-O/P	The role of isolated CD35 ⁺ follicular dendritic cells in the differentiation from B cells to IgA ⁺ GL7 ⁺ cells
	 Mari Hikosaka-Kuniishi, Toshiyuki Yamane, Doris Narki Tetteh, Hidetoshi Yamazaki Department of Stem Cell and Developmental Biology, Mie University Graduate School of Medicine

WS23 Human Immunology (Immunointervention)

15:30 ~ 16:45 Room G

Chairpersons: Keishi Fujio, Ai Tachikawa

Mouse models have made a highly important contribution to the understanding of immune system. On the other hand, it has become clear that human immunity has some differences from mouse immunity, and there is a growing need to better understand human immunity itself. Recent technological advances, such as next-generation sequencing and flowcytometry, are advancing the analysis of human immune system. Combining this understanding of human immunity with findings from mouse models will enable a deeper understanding of the immune system. In this session, the latest findings from genome analysis, humanized mice, mouse models, and human cell analysis that lead to a better understanding of human immunity will be presented. We hope that these presentations will lead to a better understanding of human immunity and elucidation of disease pathology.

WS23-01-O/P

An atlas of transcribed enhancers across helper T cell diversity for decoding human diseases

○ Akiko Oguchi^{1, 2)}, Akari Suzuki³⁾, Shuichiro Komatsu¹⁾, Chikashi Terao^{4, 5, 6)}, Kazuhiko Yamamoto³⁾, Yasuhiro Murakawa^{1, 7, 8, 9)}

¹⁾RIKEN-IFOM Joint Laboratory for Cancer Genomics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾Department of Nephrology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ³⁾Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁴⁾Laboratory for Statistical and Translational Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁵⁾Clinical Research Center, Shizuoka General Hospital, Shizuoka, Japan, ⁵⁾Department of Applied Genetics, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan, ⁷⁾IFOM - the FIRC Institute of Molecular Oncology, Milan, Italy., ⁸⁾Institute for the advanced study of human biology, Kyoto University, Kyoto, Japan, ⁹⁾Department of Medical Systems Genomics, Graduate School of Medicine, Kyoto University, Kyoto, Japan

WS23-02-O/P

Mechanisms of impaired hematopoiesis caused by the IKZF1^{№159S} variant

◯ Jingjie Chang, Kazuki Okuyama, Junji Harada, Chengcheng Zou, Ichiro Taniuchi Integrative Medical Sciences (IMS), RIKEN, Yokohama, Japan

WS23-03-O/P

Actively transcribed regulatory regions drive the genetic risk of rheumatoid arthritis

○ Hiroaki Hatano¹⁾, Akari Suzuki²⁾, Matteo Guerrini²⁾, Michihiro Kono¹⁾, Masahiro Nakano²⁾, Akiko Oguchi³⁾, Chikashi Terao⁴⁾, Yasuhiro Murakawa³⁾, Kazuhiko Yamamoto²⁾, Kazuyoshi Ishigaki¹⁾

¹⁾Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ²⁾Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ³⁾Joint Laboratory for Cancer Genomics, RIKEN Center for Integrative Medical Sciences RIKEN-IFOM, Yokohama, Kanagawa, Japan, ⁴⁾Laboratory for Statistical and Translational Genetics. RIKEN Center for Integrative Medical Sciences . Yokohama. Kanagawa, Japan

WS23-04-O/P

Establishment of human immune system mice for evaluation of rejection of HLA-depleted cells in regenerative medicine

○ Charlotte Flahou¹⁾, Natsumi Higashi¹⁾, Huaigeng Xu¹⁾, Akitsu Hotta¹⁾, Bo Wang²⁾, Shin Kaneko²⁾, Tatsuya Morishima³⁾, Hitoshi Takizawa³⁾, Koji Eto^{1,4)}, Naoshi Sugimoto¹⁾

¹⁾Department of Clinical Application, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan, ²⁾Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan, ³⁾International Research Center for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, Japan, ⁴⁾Department of Regenerative Medicine, Chiba University Graduate School of Medicine, Chiba, Japan

WS23-08-O/P

Pathogenic analysis of the idiotypic multicentric Casthleman disease (iMCD)- Aberrant immunoregulatory disorder revealed by the iMCD model mice which was transplanted with patient's lymph mode cells -

○ Kazuyuki Yoshizaki¹⁾, Yoshikane Kikushige²⁾, Takuya Harada²⁾, Kazuko Uno³⁾, Mitunori Kaneko⁴⁾, Hiroaki Niiro⁵⁾, Kouichi Akashi⁵⁾

¹⁾SANKEN Osaka University, Osaka, Japan, ²⁾Kyushu University Hospital, Fukuoka, Japan, ³⁾Louis Pasteur Medical Research center, Kyoto, Japan, ⁴⁾Suita Tokusyukai Hospital, Osaka, Japan, ⁵⁾Kyushu University, Fukuoka, Japan

WS23-09-O/P

Fab fragments against human IgE CE2 inhibit the binding of IgE to its receptors

○ Hexing Wang¹⁾, Tomoaki Ando¹⁾, Toshiaki Maruyama²⁾, Cj Okumura²⁾, Kumi Izawa¹⁾, Ayako Kaitani¹⁾, Yasuharu Kume ¹⁾, Koji Tokushige^{1,3)}, Nobuhiro Nakano¹⁾, Keiko Maeda¹⁾, Ko Okumura ¹⁾, Jiro Kitaura^{1,3)}

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine (Tokyo, Japan), ²⁾Abwiz Bio Inc. (CA, USA), ³⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine (Tokyo, Japan)

WS23-10-O/P

Innate IgE exacerbates allergic disease via amplification of ILC2 activation

Yasutaka Motomura^{1, 2, 3)}, Yohei Maeda⁴⁾, Masaki Hayama⁴⁾, Kazuyo Moro^{1, 2, 3)}

¹⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ²⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC), ³⁾Laboratory for Innate Immune Systems, RIKEN IMS, Kanagawa, Japan, ⁴⁾Department of Otorhinolaryngology-Head and Neck surgery, Graduate School of Medicine, Osaka University, Osaka, Japan

WS23-11-O/P

Withdrawn

WS23-13-O/P

Quantitative and qualitative differences in HBc-specific CD8 T cells could impact the level of HBsAg in Hepatitis B patients

○ Shokichi Takahama¹⁾, Sachiyo Yoshio²⁾, Hirotomo Murakami^{1,3)}, Hirofumi Akita^{1,4)}, Takuto Nogimori¹⁾, Shun Kaneko⁵⁾, Masayuki Kurosaki⁵⁾, Yasuhiro Asahina⁶⁾, Ryotaro Sakamori⁷⁾, Tetsuo Takehara⁷⁾, Tatsuya Kanto²⁾, Takuya Yamamoto^{1,4,8,9)}

¹⁾Laboratory of Immunosenescence, Center for Vaccine and Adjuvant Research, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾Department of Liver Diseases, Research Center for Hepatitis and Immunology, National Center for Global Health and Medicine, Tokyo, Japan, ³⁾Department of Gastroenterological Surgery, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴⁾Laboratory of Translational Cancer Immunology and Biology, Next-generation Precision Medicine Research Center, Osaka International Cancer Institute, Osaka, Japan, ⁵⁾Department of Gastroenterology and Hepatology, Musashino Red Cross Hospital, Tokyo, Japan, ⁶⁾Department of Liver Disease Control, Tokyo Medical and Dental University, Tokyo, Japan., ⁷⁾Department of Gastroenterology and Hepatology, Osaka University Graduate School of Medicine, Osaka, Japan., ⁸⁾The Research Institute for Microbial Diseases, Osaka University, Osaka, Japan., ⁹⁾Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan.

WS24 Tolerance and Immune suppression-2

15:30 ~ 16:45 Room H

Chairpersons: Kazuko Shibuya, Daisuke Sugiura

As described in WS16 Tolerance and immune suppression-1, multiple mechanisms are involved in the establishment and the maintenance of immune tolerance. In this session, we focus on mechanisms other than the active suppression by regulatory cells, which include thymic negative selection, antigen presentation, co-receptors, and cytokines. Each speaker is allotted 5 min for presentation and 2 min for Q&A. We welcome your participation and active discussion.

WS24-01-O/P	PD-1 agonism by anti-CD80 inhibits T cell activation and alleviates autoimmunity Daisuke Sugiura ¹⁾ , Il-Mi Okazaki ¹⁾ , Takumi Maruhashi ¹⁾ , Kenji Shimizu ¹⁾ , Naozumi Ishimaru ²⁾ , Taku Okazaki ¹⁾ Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo, Tokyo, Japan, ²⁾ Department of Oral Molecular Pathology, Graduate School of Biomedical Sciences, Tokushima University, Tokushima, Japan
WS24-02-O/P	CD45 modulation augments CD8 T cell energy metabolism and function in aged mice, reverting resistance to PD-1 blockade cancer immunotherapy Sara Delghandi ¹⁾ , Kenji Chamoto ¹⁾ , Yuka Nakajima ¹⁾ , Hidetaka Kosako ²⁾ , Tasuku Honjo ¹⁾ Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, ²⁾ Division of Cell Signaling, Fujii Memorial Institute of Medical Sciences, Tokushima University
WS24-05-O/P	A novel allergen-specific anergic T cell therapy induced by the blockade of T cell co-stimulation Yui Maehara ¹⁾ , Kazuyoshi Takeda ^{1, 2, 3)} , Koichiro Uchida ³⁾ , Ko Okumura ^{1, 3, 4)} Department of Biofunctional Microbiota, Juntendo University, ² Laboratory of Cell Biology, Research Support Center, Graduate School of Medicine, Juntendo University, ³ Center for Immune Therapeutics and Diagnosis, Juntendo Advanced Research Institute for Health Science, Juntendo University, ⁴ Atopy (Allergy) Research Center, Graduate School of Medicine, Juntendo University
WS24-09-O/P	Identification and binding analysis of novel receptors for HLA-G2 Hiroshi Watanabe, Kimiko Kuroki, Katsumi Maenaka Faculty of Pharmaceutical Science, Hokkaido University, Sapporo, Japan
WS24-10-O/P	Abrogation of self-tolerance by self-antigen complexed with MHC class II molecules Hui Jin ¹ , Hisashi Arase ^{1, 2)} Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, Daboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan
WS24-11-O/P	Induction of Regulatory T Cells by Ubiquitinated MHC II Yuko Kozono, Fan Baicheng, Haruo Kozono Research Institute for Biomedical Sciences, Tokyo University of Sciences, Noda, Chiba, Japan
WS24-15-O/P	IL-18 Regulates Immune Responses Contributing Placental Development and Fetal Growth Hajime Ino ^{1, 2)} , Yumi Horii ^{1, 2)} , Yasuyuki Negishi ^{1, 2)} , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾ Department of Gynecology and Obstetrics, Nippon Medical School, Tokyo, Japan
W524-17-O/P	CCR9 inhibition alters tissue distribution of plasmacytoid dendritic cells and leads to hepatic immune suppression Yuzo Koda, Nobuhiro Nakamoto, Takanori Kanai Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine
WS24-19-O/P	AIRE leaves footprints on chromatin for immunological self-tolerance Kenta Horie, Nobuko Akiyama, Taishin Akiyama Center for Integrative Medical Sciences, Riken, Yokohama, Japan
W524-20-O/P	CXCR4 defines transit-amplifying cells of medullary thymic epithelial cells Tatsuya Ishikawa ^{1, 2)} , Taishin Akiyama ^{1, 2)} , Nobuko Akiyama ¹⁾ RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾ Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan

WS25 Cytokines and Chemokines-2

15:30 ~ 16:45 Room I

Chairpersons: Tomonori Kaifu, Minako Ito

Cytokines and chemokines are key molecules that play critical roles in a variety of biological and immunological aspects regarding the regulation of not only cell growth, differentiation and trafficking, but also various innate and adaptive immune responses. Dysregulation of their expression and signal transduction pathways often causes the development of various diseases including inflammatory, allergic and autoimmune diseases, as well as infectious and malignant neoplastic diseases. Therefore, the clarification of mechanisms to regulate their expression and signal transduction pathways leads to the elucidation of pathogenesis of these diseases and the development of therapeutic strategy against them. In this session, we will mainly focus on novel molecules and functions involved in the regulation of adaptive immune responses and development of diseases using various disease models.

WS25-03-O/P

Lactococcus lactis subsp. Cremoris C60 restores T Cell Population in Small Intestinal Lamina Propria in Aged Interleukin-18 Deficient Mice

○ Toshio Maekawa^{1, 2, 3)}, Suguru Saito^{3, 4)}, Noriko Tsuji^{1, 2, 3, 5)}

¹⁾Microbiology/Immune Homeostasis, Dept. Pathology and Microbiology, Nihon University, School of Medicine, Tokyo, Japan, ²⁾iFoodmed. Inc. Research Inst., Ibaraki, Japan, ³⁾Cellular and Molecular Engineering, Dept. Life Technology and Science, AIST, ⁴⁾Dept. Dentistry, Faculty of Medicine and Dentistry, University of Alberta. ⁵⁾Dept. Food Science, Jumonii University, Saitama, Japan

WS25-04-O/P

The source and function of soluble ST2

O Pei-Chi Lo¹⁾, Yasutaka Motomura^{1, 2, 3)}, Kazuyo Moro^{1, 2, 3, 4)}

¹⁾Graduate School of Medicine, Osaka University, ²⁾Osaka University Immunology Frontier Research Center (IFReC),, ³⁾Graduate School of Frontier Biosciences, Osaka University, ⁴⁾RIKEN Center for Integrative Medical Sciences

WS25-05-O/P

Anti-IgE Ab treatment attenuates OVA-Ag-induced neutrophilic airway inflammation and IL-17 production in the lungs

C Kazuyuki Nakagome^{1, 2)}, Mitsuru Imamura³⁾, Masaaki Kawano^{2, 4)}, Kimito Kawahata³⁾, Rie Takagi^{2, 4)}, Hiroaki Harada⁵⁾, Sho Matsushita^{2, 4)}, Makoto Nagata^{1, 2)}

¹⁾Department of Respiratory Medicine, Saitama Medical University, Saitama, Japan, ²⁾Allergy Center, Saitama Medical University, Saitama, Japan, ³⁾Division of Rheumatology and Allergology, Department of Internal Medicine, St Marianna University School of Medicine, Kanagawa., ⁴⁾Department of Allergy and Immunology, Saitama Medical University, Saitama, Japan, ⁵⁾Department of Allergy and Rheumatology, Graduate School of Medicine, University of Tokyo, Tokyo, Japan

WS25-06-O/P

Suppression of itch sensation by IL-27

O Daiji Sakata¹⁾, Yusuke Nomoto¹⁾, Masahiro Yamamoto²⁾, Chisa Nakashima³⁾, Kenji Kabashima³⁾, Hiroki Yoshida⁴⁾, Takuro Kanekura⁵⁾, Hiromitsu Hara¹⁾

¹⁾Laboratory of Immunology, Department of Infection and Immunity, Graduate School of Medical and Dental Sciences, Kagoshima University, ²⁾Department of Immunoparasitology, Division of Infectious Disease, Research Institute for Microbial Diseases, Osaka University, ³⁾Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, Kyoto University, ⁴⁾Laboratory of Immunology, Department of Biomolecular Sciences, Faculty of Medicine, Saga University, ⁵⁾Department of Dermatology, Graduate School of Medical and Dental Sciences, Kagoshima University

WS25-09-O/P

Regulation and cell fate of CCR2⁺ inflammatory monocytes in the development of T cell-dependent autoimmune arthritis

○ Hiroki Mukoyama^{1, 2)}, Yusuke Takeuchi^{1, 2)}, Daiya Ohara¹⁾, Hitomi Watanabe¹⁾, Gen Kondoh¹⁾, Akio Morinobu²⁾, Keiji Hirota¹⁾

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WS25-12-O/P

Analysis of IL-6 secretion from synovial fibroblasts related to cell-to-cell interactions

O Haruka Takahashi¹¹, Zhuohao Yang²¹, Haruka Tsuchiya¹¹, Risa Yoshihara¹¹, Yumi Tsuchida¹¹, Mai Yamagishi².³³, Yoshitaka Shirasaki²¹, Sotaro Uemura⁴¹, Takashi Funatsu²¹, Sakae Tanaka⁵¹, Tomohisa Okamura¹.⁶¹, Keishi Fujio¹¹¹Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²¹Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan, ³¹Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ⁵¹Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ⁵¹Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

WS25-13-O/P	Protective effect of Recombinant Human Thrombomodulin on Streptozotocin-induced diabetes
	Yuko Okano ¹⁾ , Chisa Inoue ¹⁾ , Valeria Fridman ²⁾ , Atsuro Takeshita ^{1,2)} , Kota Nishihama ¹⁾ , Taro Yasuma ^{1,2)} , Masaaki Toda ²⁾ , Corina Gabazza ²⁾ , Yutaka Yano ¹⁾ , Esteban Gabazza ²⁾
	¹⁾ Department of Diabetes and Endocrinology Mie University Hospital Mie Japan, ²⁾ Department of Immunology Mie University Mie Japan
WS25-15-O/P	DNAM-1 deficiency exacerbates Concanavalin A-induced acute liver injury through neutrophil infiltration
	O Soichi Matsuo ^{1, 2)} , Tsukasa Nabekura ^{3, 4)} , Akira Shibuya ^{1, 3, 4)}
	¹⁾ Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan, ²⁾ Doctoral Program in Medical Science, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, ³⁾ Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, ⁴⁾ R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan
WS25-16-O/P	Role of intrathrombotic CX3CR1-fractalkine axis during resolution on murine deep vein thrombosis model
	O Mizuho Nosaka, Yuko Ishida, Akihiko Kimura, Yumi Kuninaka, Naofumi Mukaida, Toshikazu Kondo Department of Forensic Medicine, Wakayama Medical University
WS25-17-O/P	CD122-selective IL/2/antilL-2 complex enhances the synergistic potentiation in the innate immunity and
	memory T cells resulting strong anti-tumor effect Kanako Shimizu, Masami Kawamura, Shin-Ichiro Fujii
	RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
December	9
WS26 T Cel	I activation and responses (human and Vitro) 13:00 ~ 14:15 Room B
	Chairpersons: Kiyoshi Hirahara, Hiroko Nakatsukasa
pathogenes as T cell re However, th is to discus virus infect	crucial for shaping the adaptive immune responses against harmful pathogens. However, they are also involved in the is of various immune-related inflammatory diseases. The appropriate activation of T cells via various signals such ceptor stimulation, costimulatory stimulation, and stimulation are essential for adequate immune responses in vivo. The precise molecular mechanisms through which T cells are activated remain uncertain. The aim of this workshop is the cutting-edge findings of the unique features of T cell activation and responses in various situations including ion and anti-tumor therapies. We welcome active discussion. [Each presentation is expected to finish within 6 owed by 2 minutes of discussion.]
WS26-01-O/P	Composition of the UBASH3A signalosome emphasizes its negative regulatory function in TCR signaling
	Daiki Mori ¹⁾ , Bernard Malissen ²⁾ 1)Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, Osaka
	University, ² /Centre d'Immunologie de Marseille-Luminy, Aix-Marseille University
WS26-02-O/P	Regulation of the TNFR family co-signaling by TNF-related recombinant proteins
	○ Takanori So¹¹, Ayaka Sato¹¹, Hodaka Nagai¹¹, Mitsuki Azuma¹¹, Nagito Shibui¹¹, Wakana Imai¹¹, Masashi Morita¹¹, Naoto Ishii²¹
	¹⁾ Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, ²⁾ Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine
WS26-03-O/P	CD62L expression is regulated by the states of energy metabolism
	○ Koji Kitaoka, Maiko Hajime, Yasuharu Haku, Kenji Chamoto, Tasuku Honjo
	Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School

○ Tomohide Kinoshita¹⁾, Mai Ohno¹⁾, Norihito Hayatsu²⁾, Reiko Ohnishi²⁾, Akira Nakajima¹⁾, Shohei Hori^{1,2)} ¹⁾Laboratory for Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan, ²⁾RIKEN Center for Integrative Medical Sciences, Tokyo, Japan

Robust TCR signals control epigenetic conversion of conventional T cells to regulatory T cells through

mTORC1-dependent expression of TET proteins

WS26-04-O/P

/S26-05-O/P	Dynamic B-pocket remodeling is a basis for HLA class I molec	ules to bind peptides and lipopeptides
	Minori Asa ^{1, 2)} , Daisuke Morita ^{1, 2)} , Masahiko Sugita ^{1, 2)} ¹⁾ Laboratory of Cell Regulation, Institute for Life and Medical Sciences, Kyoto Universection	sity, ²⁾ Laboratory of Cell Regulation and Molecular Network,
	Graduate School of Biostudies, Kyoto University	
26-06-O/P	Binding of the CD4/CD8 coreceptor to an MHC molecule positive	-
	Hiroaki Machiyama ¹ , Ei Wakamatsu ¹ , Arata Takeuchi ¹ , Hitoshi Nisl Maksim Mamonkin ² , Malcolm K Brenner ² , Tadashi Yokosuka ¹	hijima ¹⁾ , Masae Furuhata ¹⁾ , Hiroko Toyota ¹⁾ ,
	¹⁾ Department of Immunology, Tokyo Medical University, Tokyo, Japan, ²⁾ Center for Ce	ell and Gene Therapy, Baylor College of Medicine, Houston,
	TX, US	
26-07-O/P	SCD2-mediated cooperative activation of IRF3-IRF9 regulatory transcriptome in CD4+ T cells	circuit controls type i interferon
	○ Toshio Kanno, Yusuke Endo, Takahiro Nakajima	
	Kazusa DNA Research Institute.	
26-08-O/P	Generation of CTLs from iPSCs transduced with TCR genes: de	
	Seiji Nagano ¹⁾ , Koji Terada ²⁾ , Yasutoshi Agata ²⁾ , Hiroshi Kawamoto ¹⁾ Kyoto University, Kyoto, Japan, ²⁾ Shiga University of Medical Science, Shiga, Japan	
6 00 0 /D		
6-09-O/P	Analysis of HLA-class-I unrestricted T cell receptors obtained f breast cancer patients	rom tumor minuating lymphocytes of
	Abdul Hayee, Satoshi Yamaguchi, Hiroshi Hamana, Kiyomi Shitaok	a, Eiji Kobayashi, Tatsuhiko Ozawa,
	Ha Thi Viet My, Atsushi Muraguchi, Hiroyuki Kishi Department of Immunology, Faculty of Medicine, Academic Assembly, University of T	Fourme
	Department of immunology, Faculty of Medicine, Academic Assembly, University of I	Oyania
' Tumor	r Microenvironment, Metabolism	13:00 ~ 14:15 Room C
	•	rpersons: Mamoru Harada, Haruka Wada
to improve th	ti-cancer immunotherapy is approved as effective in treating various the therapeutic efficacy. For that reason, in this session, studies for and tumor microenvironment are presented and discussed. Active an	cusing on new anti-cancer immunotherapies,
7-10-O/P	Combination immunotherapy targeting stearoyl-CoA desaturas	se 1 (SCD1) with immunosuppressive
	Yuki Katoh ^{1, 2, 3)} , Tomonori Yaguchi ^{1, 4)} , Akiko Kubo ⁵⁾ , Takashi Iwata ^{1,}	³⁾ , Kenji Morii ^{1,4)} , Daiki Kato ¹⁾ , Shigeki Ohta ^{1,6)} ,
	Makoto Suematsu ⁵⁾ , Yutaka Kawakami ^{1,6)} ¹⁾ Division of Cellular Signaling, Institute for Advanced Medical Research, Keio Univer	
	Department of Functional Morphology, Nihon University School of Medicine, ³⁾ Depart School of Medicine, ⁴⁾ Department of Immunology and Genomic Medicine, Center for	
	Graduate School of Medicine, Kyoto University, ⁵ Department of Biochemistry, Keio U School of Medicine, International University of Health and Welfare	
-11-O/P	A novel immunotherapy using CCL19-expressing allogeneic m	esenchymal stromal cells exert anti-tumor
	effect by increasing CD103 ⁺ CD8 ⁺ T cells	
	 Yuichi Iida, Mamoru Harada Department of Immunology, Faculty of Medicine, Shimane University 	

Metabolic adaptation of cancer cells to escape from immune-editing process

¹⁾Section of Host Defences, Institute of Natural Medicine, University of Toyama, ²⁾Laboratory of Cell Biology, Graduate School of Medicine,

○ Sisca Ucche¹⁾, Soichiro Sasaki¹⁾, Kazuyoshi Takeda²⁾, Yoshihiro Hayakawa¹⁾

WS27-13-O/P

Juntendo University

WS27-14-O/P

Spermidine activates Mitochondrial trifunctional complex MTP leading to enhanced fatty acid oxidation FAO in CD8+ T cells and stronger anti-tumor immunity in combination PD-1 blockade

○ Muna Al-Habsi^{1,2,3)}, Kenji Chamoto¹⁾, Norimichi Nomura⁴⁾, Ken Matsumoto⁵⁾, Kazuhiko Sonomura^{6,7)}, Baihao Zhang⁸⁾, Yuki Sugiura⁹⁾, Toshihiko Ogura⁵⁾, Sidonia Fagarasan^{3,8)}, Tasuku Honjo¹⁾

¹⁾Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾National Genetic Center, Ministry of Health, Muscat, Oman, ³⁾Division of Integrated High-Order Regulatory Systems, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Kyoto University, Kyoto, Japan, ⁴⁾Department of Cell Biology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ⁵⁾Department of Developmental Neurobiology, Institute of Development, Aging and Cancer, Tohoku University, Miyagi, Japan, ⁶⁾Center for Genomic Medicine, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ⁷⁾Life Science Research Center, Technology Research Laboratory, Shimadzu Corporation, Kyoto, Japan, ⁸⁾Laboratory for Mucosal Immunity, Center for Integrative Medical Sciences, RIKEN Yokohama Institute, Yokohama, Japan, ⁸⁾Department of Biochemistry and Integrative Biology. Keio University. Tokyo, Japan

WS27-16-O/P

Single-cell RNA-seq analysis of human tumor infiltrating T cells across multiple tumor types to discover potential targets for combination immunotherapy

○ Yoshinobu Koguchi¹⁾, Tanisha Christie¹⁾, Venkatesh Rajamanickam¹⁾, Noah Simons¹⁾, Wesley Rosales¹⁾, Laura Seestaller Wehr²⁾, Niranjan Yanamandra²⁾, Sue Griffin²⁾, James Smothers²⁾, Johanna Kaufmann³⁾, Brady Bernard¹⁾, William Redmond¹⁾

¹⁾Earle A. Chiles Research Institute, Providence Cancer Institute, Portland, OR, USA, ²⁾Immuno-Oncology & Combinations Research Unit, GlaxoSmithKline, Collegeville, PA, USA, ³⁾Codagenix, Farmingdale, NY, USA

WS27-20-O/P

IFN- α/β -mediated neuropeptide signaling augments malignancy of colon cancer cells

Hidemitsu Kitamura¹⁾, Huihui Xiang^{1, 2)}, Yujiro Toyoshima^{1, 2)}, Naoki Okada^{1, 2)}, Shuhei Kii^{1, 2)}, Ko Sugiyama^{1, 2)}, Toshihiro Nagato³⁾, Hiroya Kobayashi³⁾, Kazuho Ikeo⁴⁾, Shinichi Hashimoto⁵⁾, Mishie Tanino⁶⁾, Akinobu Taketomi²⁾

Division of Functional Immunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan, Department of Gastroenterological Surgery I, Hokkaido University Graduate School of Medicine, Sapporo, Japan, Department of Pathology, Asahikawa Medical University, Asahikawa, Japan, Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan, Department of Surgical Pathology, Asahikawa Medical University. Asahikawa. Japan

WS27-23-O/P

Immunosuppression-elicited Galectin-7 is a crucial metastatic enhancer of squamous cell carcinoma

◯ Jianbo An¹⁾, Yushi Nagaki²⁾, Midori Hoshizaki^{1,3)}, Tomokazu Yamaguchi¹⁾, Yuta Kuze⁴⁾, Yumiko Imai³⁾, Satoru Motoyama²⁾, Yutaka Suzuki⁴⁾, Keiji Kuba¹⁾

¹⁾Department of Biochemistry and Metabolic Science, Akita University Graduate School of Medicine, Akita, Japan, ²⁾Department of Surgery, Akita University Graduate School of Medicine, Akita, Japan, ³⁾Laboratory of Regulation of Intractable Infectious Diseases, National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ⁴⁾Department of Medical Genome Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Chiba, Japan

WS27-24-O/P

A novel prognostic gene signature of amino acid metabolism pathways under lung adenocarcinoma tumor immune microenvironment

○ Huihui Xiang¹⁾, Rika Kasajima¹⁾, Tetsuro Sasada²⁾, Yohei Miyagi¹⁾

¹⁾Molecular Pathology & Genetics Division, Kanagawa Cancer Center Research Institute, Yokohama, Japan, ²⁾Division of Cancer Immunotherapy, Kanagawa Cancer Center Research Institute, Yokohama, Japan

WS28 Infection and Immunity III

13:00 ~ 14:15 Room D

Chairpersons: Hiroyuki Oshiumi, Miwa Sasai

Humoral and cellular immunity are both important to eradicate virus and prevent reinfection. Antibodies neutralize virus infectivity, whereas viruses evade host immune responses via mutations on their genome and sometimes utilize antibodies to enhance their infection. T cells support those humoral immunity or directly kill infected cells, and thus viral mutations also affect T cell-mediated immune responses. Moreover, cellular intrinsic mechanisms are also crucial for antiviral responses. Recent studies have elucidated the mechanisms underlying the host-virus conflict. This workshop is focused on antiviral humoral. cellular, and molecular immunity and viral escape from the immune system.

WS28-01-O/P Therapeutic efficacy of monoclonal antibodies and antivirals against SARS-CoV-2 Omicron variants in the hamster model Rvuta Uraki^{1,2)}. Maki Kiso¹⁾. Masaki Imai^{1,2)}. Seiva Yamavoshi^{1,2)}. Mutsumi Ito¹⁾. Michiko Uiie^{1,2)}. Yuri Furusawa^{1,2)}. Atsuhiro Yasuhara¹⁾, Kiyoko Iwatsuki-Horimoto¹⁾, Yuko Sakai-Tagawa¹⁾, Yoshihiro Kawaoka^{1, 2, 3)} ¹⁾Division of Virology, Institute of Medical Science, University of Tokyo, ²⁾The Research Center for Global Viral Diseases, National Center for Global Health and Medicine Research Institute, 3) Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison Acquisition of resistance to wild-type spike-immune sera by emerging SARS-CoV-2 variants WS28-02-O/P ○ Yafei Liu^{1,2)}, Hui Jin^{1,2)}, Wataru Nakai^{1,2)}, Masako Kohyama^{1,2)}, Hisashi Arase^{1,2)} ¹⁾Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Japan, ²⁾Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Japan WS28-03-O/P The SARS-CoV-2 Omicron BA.1 spike G446S potentiates antiviral T cell immunity Chihiro Motozono¹⁾, Mako Toyoda¹⁾, Hiroshi Hamana²⁾, Keiko Udaka³⁾, Hiroyuki Kishi²⁾, Takamasa Ueno¹⁾ ¹⁾Division of infection and immunity, Joint research center for Human Retrovirus infection, Kumamoto University, ²⁾Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, 3) Department of Immunology, Kochi University WS28-04-O/P Analysis of SARS-CoV-2 pathogenicity in COVID-19 cynomolgus macague model reflecting human **COVID-19** pathological conditions O Emiko Urano, Tomotaka Okamura, Yasuhiro Yasutomi Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition WS28-05-O/P Role of histone ubiquitination in SARS-CoV2 and influenza virus infection Yumiko Imai, Yasuha Kinugasa, Midori Hoshizaki, Mara Llamas Covarrubias National Institutes of Biomedical Innovation, Health and Nutrition, Center for Vaccine & Adjuvant Research WS28-06-O/P Characterization of airway M cell: a potential contribution to respiratory diseases Shunsuke Kimura^{1, 2)}, Shingo Kawai¹⁾, Takahiro Yamada^{1, 3)}, Yutaka Nakamura^{1, 3)}, Shinichiro Sawa⁴⁾, Hase Koji ¹⁾ ¹⁾Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, ²⁾PRESTO, Japan Science and Technology Agency, Saitama, Japan, ³⁾Department of Microbiology and Immunology, School of Pharmaceutical Sciences, Wakayama Medical University, Wakayama, Japan., ⁴Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University WS28-07-O/P Immune Profiling of HTLV-1-Specific CTLs in Peripheral Blood and Cerebrospinal Fluid of HAM/TSP Patients for Elucidation of Immunoregulatory Mechanisms and Novel Biomarker Discovery ○ Benjy Jek Yang Tan¹⁾, Kenji Sugata¹⁾, Tomoo Sato²⁾, Mitsuharu Ueda³⁾, Yoshihisa Yamano²⁾, Yorifumi Satou¹⁾ ¹⁾Division of Genomics & Transcriptomics, Joint Research Center for Human Retrovirus Infection, Kumamoto University, ²⁾Department of Rare Diseases Research, School of Medicine, St. Marianna University, Kanagawa, 30 Department of Neurology, Kumamoto University Hospital, Kumamoto WS28-08-O/P Investigation of the role of follicular CD8 T cells for reducing viral reservoirs under cART treatment

Takuya Yamamoto^{1, 4, 5)} ¹⁾Laboratory of Immunosenescence, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾Tsukuba primate research center. National Institutes of Biomedical Innovation. Health and Nutrition, Ibaraki, Japan. 3) Division of Genomics and Transcriptomics, Joint

Ayaka Washizaki¹
 Shokichi Takahama¹
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 Takuto Nogimori¹
 Yuji Masuta¹
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Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, Japan, 4) Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, 5) Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan

WS29 Dendritic cells and macrophages-3: Regulation of cytokine production, pathogenesis

13:00 ~ 14:15 Room E

Chairpersons: Chiharu Nishiyama, Kensuke Miyake

Macrophages, dendritic cells, and neutrophils sense various innate stimuli and produce inflammatory cytokines to quickly respond to pathogen intrusion. However, aberrant activation of these innate immune cells is rather harmful to the host, which is associated with pathogenesis of various inflammatory diseases. Therefore, the production of inflammatory cytokines from theses myeloid cells needs to be tightly regulated by a variety of mechanisms, including epigenetic regulation and receptor-mediated intracellular events. In this session, we will first discuss the regulatory mechanisms of inflammatory cytokine production from macrophages and dendritic cells. Secondly, we will aim to understand how macrophages, dendritic cells and neutrophils are associated with inflammatory diseases, including autoinflammatory disease and glomerulonephritis.

WS29-01-O/P	Regulatory Mechanism in Innate Immune Response by a CCCH-type Zinc Finger Protein, ENZ-1 Norisuke Kano, Daisuke Ori, Takumi Kawasaki, Taro Kawai Division of Science and Technology, Laboratory of Molecular Immunobiology, Nara Institute of Science and Technology, Nara, Japan
WS29-02-O/P	Regulation of II6 Expression by a Single CpG methylation in the II6 locus Takumi Kawasaki, Benedict Shi Xiang Lian, Daisuke Ori, Taro Kawai Nara Institute of Science and Technology (NAIST), Laboratory of Molecular Immunobiology
WS29-05-O/P	O ⁶ -alkylguanine DNA alkyltransferase (MGMT) Regulates Beta-Glucan-induced Trained Immunity in Macrophages Tanapat Palaga ^{1, 2, 3)} , Salisa Benjaskulluecha ^{1, 2)} , Atsadang Boonmee ³⁾ , Thitiporn Pattarakankul ^{3, 4)} , Benjawan Wongprom ³⁾ Center of Excellence in Immunology and Immune-Mediated Diseases, Chulalongkorn University, Bangkok, Thailand, Interdisciplinary Graduate Program in Medical Microbiology, Graduate School, Chulalongkorn University, Bangkok, Thailand, Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, Center of Excellence in Advanced Materials and Biointerfaces, Chulalongkorn University, Bangkok, Thailand
WS29-06-O/P	Novel function of clathrin heavy chain regulating NLRP3 inflammasome formation via endocytosis in macrophages — Hiep Hung Huynh ¹⁾ , Eri Koike ¹⁾ , Masumi Shimizu ¹⁾ , Rimpei Morita ¹⁾ , Akihiko Yoshimura ²⁾ ¹⁾ Nippon Medical School, Tokyo, Japan, ²⁾ Keio University School of Medicine, Tokyo, Japan
WS29-10-O/P	Dendritic and T cell abnormalities in an autoinflammatory disease with interstitial lung disease and type I interferonopathy caused by a disability of retrograde protein trafficking Takashi Kato ¹⁾ , Izumi Sasaki ¹⁾ , Hiroaki Hemmi ^{1,2)} , Yoshitaka Honda ^{3,4,5)} , Kazushi Izawa ⁵⁾ , Ryuta Nishikomori ⁶⁾ , Tsuneyasu Kaisho ¹⁾ Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan, ² Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, Imabari, Japan, ³ Institute for the Advanced Study of Human Biology (ASHBI), Kyoto University, Kyoto, Japan, ⁴ Department of Immunology, Kyoto University Graduate School of Medicine, Kyoto Japan, ⁵ Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto Japan, ⁵ Department of Pediatrics, Kyoto University Graduate School of Medicine, Kurume, Japan
WS29-11-O/P	The role of RNase T2 in macrophage homeostasis. Ryota Sato ¹⁾ , Kaiwen Liu ¹⁾ , Takuma Shibata ¹⁾ , Ryutaro Fukui ¹⁾ , Katsuaki Hoshino ²⁾ , Tsuneyasu Kaisho ³⁾ , Kensuke Miyake ¹⁾ Division of Innate Immunity, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan., Department of Immunology, Faculty of Medicine, Kagawa University, Kagawa, Japan., Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan.
WS29-14-O/P	FROUNT inhibitor disulfiram ameliorates crescentic glomerulonephritis through the inhibition of

Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

○ Etsuko Toda^{1, 2)}, Anri Sawada¹⁾, Kazuhiro Takeuchi¹⁾, Mika Terasaki¹⁾, Shinobu Kunugi¹⁾, Yasuhiro Terasaki¹⁾,

¹⁾Department of Analytic Human Pathology, Nippon Medical School, Tokyo, Japan, ²⁾Division of Molecular Regulation of Inflammatory and

monocytes/macrophage migration and activation

Kouji Matsushima²⁾, Yuya Terashima²⁾, Akira Shimizu¹⁾

WS29-15-O/P

The leukotriene B₄-BLT1 axis in neutrophils exacerbates crescentic glomerulonephritis

○ Masatsugu Oh-Hora^{1, 2)}, Ryotaro Shioda^{1, 3)}, Airi Jo-Watanabe^{1, 4)}, Toshiaki Okuno¹⁾, Kazuko Saeki^{1, 2)}, Maiko Nakayama³⁾, Yusuke Suzuki³⁾, Takehiko Yokomizo¹⁾

¹⁾Department of Biochemistry, Juntendo University Graduate School of Medicine, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, ³⁾Department of Nephrology, Juntendo University Faculty of Medicine, ⁴⁾AMED-PRIME, Japan Agency for Medical Research and Development

WS30 Innate immunity (2) Innate recognition and signaling

13:00 ~ 14:15 Room F

Chairpersons: Sho Yamasaki, Minako Ito

Studies of innate immunity has revealed that a variety of pattern recognition receptors(PRRs) sense pathogen associated molecular patterns (PAMPs) such as LPS or viral RNA followed by induction of innate immune response against bacterial and virus infection. Also, danger-associated molecular patterns (DAMPs) such as HMGB-1 or MRP-14 induce sterile inflammation in addition to PAMPs as well. Such inflammation by exogenous and endogenous ligands should be properly controlled for homeostasis. In this workshop, we will discuss innate immune response focusing on the point of innate recognition and their signaling. We welcome active discussion and communication by all participants.

WS30-03-O/P

Activation of MyD88- and TRIF-mediated Signaling Pathways by *Alcaligenes* Lipid A for Efficient Antigen Presentation and T Cell Differentiation by Dendritic Cells

○ Xiao Sun^{1, 2)}, Koji Hosomi¹⁾, Atsushi Shimoyama²⁾, Ken Yoshii^{1, 2)}, Zilai Liu^{1, 2)}, Haruki Yamaura²⁾, Davie Kenneth²⁾, Azusa Saika¹⁾, Takahiro Nagatake^{1, 3)}, Hiroshi Kiyono^{4, 5, 6)}, Koichi Fukase²⁾, Jun Kunisawa^{1, 2, 4, 7, 8)}

¹⁾National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾Osaka University, Osaka, Japan, ³⁾Meiji University, Tokyo, Japan, ⁴⁾The University of Tokyo, Tokyo, Japan, ⁵⁾University of California San Diego (UCSD), San Diego, CA, United States, ⁶⁾Chiba University, Chiba, Japan, ⁷⁾Kobe University, Kobe, Japan, ⁸⁾Waseda University, Tokyo, Japan

WS30-05-O/P

Withdrawn

WS30-07-O/P

NOP16, a novel epigenetic modifier, suppresses the excessive innate inflammatory response by regulating cellular stress

○ Ken Takashima, Yohana Mtali, Hiroyuki Oshiumi

Department of Immunology, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

WS30-08-O/P

A lethal cross-talk between innate immune and adrenergic receptor signaling

O Shuto Tanaka, Masataka Kawakita, Kazuhiko Takahara

Laboratory of Immunobiology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan.

WS30-13-O/P

Glucagon-like Peptide-1 Receptor Agonist ameliorates inflammatory myopathies via suppressing muscle fiber necroptosis

O Mari Kamiya, Marina Tsuchida, Hirokazu Sasaki, Natsuka Umezawa, Shinsuke Yasuda

Department of Rheumatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU)

WS30-16-O/P

Kinetics of signaling via common Fc receptor γ (FcR γ) chain determine dendritic cell responses by altering chromatin status

○ Miyuki Watanabe^{1, 2, 3)}, Sho Yamasaki^{1, 2, 4)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²⁾Laboratory of Molecular Immunology, Immunology, Frontier Research Center, Osaka University, Osaka, Japan, ³⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ⁴⁾Center for Infectious Disease Education and Research (CiDER), Osaka University, Osaka, Japan

WS30-19-O/P

The Ragulator complex regulates NLRP3 inflammasome activation through interaction with HDAC6

O Kohei Tsujimoto, Tatsunori Jo, Hyota Takamatsu, Atsushi Kumanogoh

Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University

WS31 Autoimmunity

13:00 ~ 14:15 Room G

Chairpersons: Hiroaki Niiro, Keiji Hirota

Both effector innate and adaptive immune cells are involved in the development of autoimmunity. In addition, chemokines and cytokines play an important role in the aberrant recruitment and dysfunction of these immune cells. On the other hand, autoimmunity can be counteracted by suppressive immune cells such as regulatory T cells (Tregs), which have potential therapeutic applications. MHC is a well-known molecule associated with susceptibility to autoimmune diseases. Notably, ectopic expression of MHC on non-immune cells leads to autoimmunity through a unique mechanism. Autoantibodies are often useful for subclassifying disease phenotypes and exert effector functions in the formation of immune complexes. In view of the above, we have selected 8 outstanding abstracts for this session and look forward to active participation and discussion.

WS31-01-O/P	Moesin deficiency leads to the local CXCL13 expression and inflammation in the kidney Satoko Ichioka, Hiroki Satooka, Takako Hirata Department of Fundamental Biosciences, Shiga University of Medical Science
WS31-02-O/P	Neutrophils exacerbate the pathogenesis of pulmonary fibrosis by cleaving IL-33 Yuki Hara ¹⁾ , Yasutaka Motomura ^{1, 2)} , Kazuyo Moro ^{1, 2)} 1)Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ²⁾ Laboratory for Innate Immune Systems, RIKEN IMS, Kanagawa, Japan
WS31-03-O/P	Tissue-specific deficiency of clonally expanded regulatory T cells underlies tissue-restricted inflammation in Foxp3A384T mutant mice Yoshimichi Hoshiya Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan
WS31-04-O/P	Treatment for autoimmune diseases with engineered exosome Shota Imai ¹⁾ , Tomoyoshi Yamano ^{2,3)} , Xiabing Lyu ²⁾ , Rikinari Hanayama ^{2,3)} Department of immunology, School of Frontier Science initiative division of Nano life science, Kanazawa University, Kanazawa, Japan, Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan, Nerologia, WPI Nano Life Science Institute (NanoLSI), Kanazawa University, Kanazawa, Japan
WS31-05-O/P	A new transcriptional mechanism of ectopic MHC class II expression induced by IFN-γ Wataru Nakai ^{1, 2)} , Yuta Shimizu ^{1, 2)} , Masako Kohyama ^{1, 2)} , Hisashi Arase ^{1, 2)} Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, ²⁾ Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University
WS31-06-O/P	Autoantibodies to the Survival of Motor Neuron (SMN) complex as a novel marker for pulmonary arterial hypertension in patients with mixed connective tissue disease (MCTD) Yasuyuki Todoroki ¹⁾ , Minoru Satoh ^{2, 3)} , Satoshi Kubo ¹⁾ , Shumpei Kosaka ¹⁾ , Shin Tanaka ²⁾ , Shingo Nakayamada ¹⁾ , Yoshiya Tanaka ¹⁾ Tirist Department of Internal Medicine, University of Occupational and Environmental Health, Japan, Department of Human, Information and Life Sciences, University of Occupational and Environmental Health, Japan, Kitakyushu Yahata Higashi Hospital
WS31-07-O/P	RNase-induced Fc gamma receptor stimulation of Ro60/SSA- and La/SSB- immune complexes. Ryota Naito ^{1, 2, 3)} , Koichiro Ohmura ¹⁾ , Shuhei Higuchi ^{2, 3)} , Wataru Nakai ^{2, 3)} , Masako Kohyama ^{2, 3)} , Akio Morinobu ¹⁾ , Hisashi Arase ^{2, 3)} Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, World Premier International Immunology Frontier Research Center, Osaka University, Suita, Japan, Research Institute for Microbial Diseases, Osaka University, Suita, Japan
W531-08-O/P	HLA analysis of the Nivolumab-induced ACTH deficiency (Neiko Udaka¹¹), Mitsuru Nishiyama²¹, Shogo Funakoshi²¹, Takashi Shiina³³, Takeyuki Shimizu¹¹, Toshihiro Komatsu¹¹, Hiroshi Hamana⁴¹ Hiroyuki Kishi⁴¹ Kousuke Onoue⁵¹ Yuki Tanaka⁵¹ Tetsu Aihara⁵¹ Youki Nakagawa⁵¹

Kochi University, Nankoku, Japan

¹⁾Department of Immunology, School of Medicine, Kochi University, Nankoku, Japan, ²⁾Department of Endocrinology, Metabolism and Nephrology, School of Medicine, Kochi University, Nankoku, Japan, ³⁾Division of Basic Medical Science and Molecular Medicine, Department of Molecular Life Science, Tokai University, Isehara, Japan, ⁴⁾Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, Japan, ⁵⁾Al Drug Development Division, NEC Corporation, Tokyo, Japan, ⁶⁾Advanced Science Course, School of Medicine,

Poster

○ : Presenter

December 7

WS01	T cell development (thymus and homeostasis)
WS01-0	Notch signaling triggers T-lineage program via Tcf7-dependent and -independent mechanisms Ken-Ichi Hirano, Katsuto Hozumi, Hiroyuki Hosokawa Department of Immunology, Tokai University School of Medicine, Kanagawa, Japan
WS01-0	Phosphorylation of Runx proteins controls thymocyte fate Chihiro Ogawa, Kazuki Okuyama, Satoshi Kojo, Sawako Muroi, Ichiro Taniuchi Riken, Center for Integrative Medical Sciences, Laboratory for Transcriptional Regulation, Yokohama, Japan
WS01-0	THEMIS acts in the cytoplasm and nucleus to regulate T cell differentiation Kiyokazu Kakugawa, Hilde Cheroutre Laboratry for ImmuneCrosstalk, RIKEN Center for Integrative Medical Science
WS01-0	Induction of central tolerance by arginine methylation Ryunosuke Muro, Takeshi Nitta, Hiroshi Takayanagi Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo
WS01-0	Isolation of thymic self-reactive T cells with differentiation preference for regulatory T cells Ryoji Kawakami ^{1, 2)} , Shimon Sakaguchi ^{1, 2)} 1)Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan, 2)Immunology Frontier Research Center, Osaka University, Osaka, Japan
WS01-0	Excess proliferation and activation of self-reactive memory-phenotype CD4 ⁺ T lymphocytes are tonically inhibited by regulatory T cells in steady state Jing Li, Ziying Yang, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Yuko Okuyama, Naoto Ishii, Takeshi Kawabe Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan
WS01-0	Long-term caloric restriction ameliorates T cell immunosenescence in mice Sachi Tanaka, Katsunori Endo Shinshu University, Nagano, Japan
WS01-	Reinforcement learning in the process of gene expression Tomoyuki Yamaguchi Research Institute, Nozaki Tokushukai Hospital
WS01-	Investigation of regulatory machinery of Cd8a expression in cytotoxic T cells via the CRISPR/Cas9 screen system Jiawen Zheng, Ichiro Taniuchi Laboratory for Transcriptional Regulation, IMS, RIKEN Yokohama, Japan
WS01-	Cohesin-mediated chromatin regulation in the regulatory T cells is required for the immune homeostasis Kentaro Fujiwara, Kazuko Miyazaki, Hiroshi Kawamoto, Masaki Miyazaki Kyoto University, Institute for Life and Medical Sciences, Kyoto, Japan
WS01-	Synergistic action between E2A and Notch signal determines the cell fate of T cell versus innate lymphoid cell in the thymus Kazuko Miyazaki, Hiroshi Kawamoto, Masaki Miyazaki Institute for Life and Medical Sciences, Kyoto University
WS01-	Notch-dependent functional conversion of Runx1 at the initiation of T-lineage program Yuichi Kama, Katsuto Hozumi, Hiroyuki Hosokawa Department of Immunology, Tokai University School of Medicine
WS01-	Role of CD69 on thymic regulatory T cell development Yukihiro Endo, Tastuya Ueno, Ichita Hasegawa, Yangsong Wang, Ryo Nasu, Motoko Kimura Penertment of Experimental Immunology Craduate School of Medicine, Chiba University

Department of Experimental Immunology, Graduate School of Medicine, Chiba University

WS01-14-P	Lck interactomes using two BioID methods in mice
	 Junji Harada^{1, 2)}, Ichiro Taniuchi¹⁾ ¹⁾Laboratory for Transcriptional Regulation, IMS, RIKEN, Kanagawa, Japan, ²⁾Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan
WS01-15-P	Self-reactive memory-phenotype CD4 ⁺ T lymphocytes can induce mild and systemic inflammation by differentiating into effector and regulatory T cells
	Akihisa Kawajiri ^{1, 2)} , Jing Li ¹⁾ , Ziying Yang ¹⁾ , Keita Koinuma ¹⁾ , Kosuke Sato ¹⁾ , Shunichi Tayama ¹⁾ , Yuko Okuyama ¹⁾ , Hideo Harigae ²⁾ , Naoto Ishii ¹⁾ , Jinfang Zhu ³⁾ , Kwang Soon Kim ⁴⁾ , Takeshi Kawabe ^{1, 3)} Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan., Department of Hematology, Tohoku University Graduate School of Medicine, Sendai, Japan., Molecular and Cellular Immunoregulation Section, Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA., Department of Life Sciences, Pohang University of Science and Technology, Pohang, Republic of Korea
WS01-16-P	Role of central tolerance in tumor progression
	Yangsong Wang, Ryo Nasu, Ichita Hasegawa, Yukihiro Endo, Shunka Kanou, Motoko Y Kimura Department of Experimental Immunology, Graduate School of Medicine, Chiba University
WS01-17-P	Role of HIF-1 α in T cell behavior
	 Hidefumi Kojima Division of Host Defense, Research Center for Advanced Medical Science Dokkyo Medical Univ. Sch. of Med.
WS01-18-P	The critical role of Rap1GAPs in T cell recirculation and egress from lymph node Shunsuke Horitani ¹ , Yoshihiro Ueda ² , Yuji Kamioka ² , Naoyuki Kondo ² , Yoshiki Ikeda ² , Takataro Fukuhara ¹ , Makoto Naganuma ¹ , Tatsuo Kinashi ² Division of Gastroenterology and Hepatology, the third Department of Internal Medicine, Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University
WS01-19-P	The immunosuppressive effects of gallate-type procyanidin through modulating cell metabolism in CD4 ⁺ T cells
	Catsunori Endo, Sachi Tanaka Shinshu University, Nagano, Japan
WS01-20-P	cDC1-dependent generation of memory CD4 T cells
	 Kana Matsuo, Kokoro Ohki, Koji Tokoyoda Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan
WS01-21-P	Regulatory T cell-dependent maintenance of memory T helper cells in vivo
	 Sano Nagano, Uki Kimura, Mei Sakagami, Koji Tokoyoda Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan
December	7
WS02 Anti-	tumor Effectors, Ag presentation
WS02-01-P	T cell receptor repertoire analysis revealed tissue tropism of tumor-reactive T-cell clones in cell cycle reporter mice
	Mikiya Tsunoda ¹⁾ , Hiroyasu Aoki ^{1, 2)} , Haruka Shimizu ¹⁾ , Munetomo Takahashi ³⁾ , Haru Ogiwara ¹⁾ , Shigeyuki Shichino ¹ Kouji Matsushima ¹⁾ , Satoshi Ueha ¹⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan, ²⁾ Department of Hygiene, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³⁾ Faculty of Medicine, The University of Tokyo
WS02-02-O/P	T-Cell Rejuvenation: a novel approach to partially reprogram T cells to improve their immunotherapeutic properties
	Raul Vizcardo, Yasuhiro Yamazaki, Takuya Maeda, Yin Huang, Naritaka Tamaoki, Burak Kutlu, Jessica Fioravanti, Shobha Potluri, Nicholas P. Restifo

Lyell Immunopharma Inc, South San Francisco, CA, USA

WS02-03-O/P	scRNAseq analysis revealed that activation of progenitor-like $T_{\rm ex}$ population in tumor elicited a strong effector function in the later population in <i>Socs3</i> cKO mice
	 Setsuko Mise-Omata, Akihiko Yoshimura Keio University School of Medicine, Department of Microbiology and Immunology, Tokyo, JAPAN
WS02-04-O/P	CD69 regulates anti-tumor CD8T cell responses
	 Ryo Nasu, Yangsong Wang, Yukihiro Endo, Ichita Hasegawa, Tatsuya Ueno, Yukiyoshi Mita, Shinichiro Motohashi, Toshinori Nakayama, Motoko Y. Kimura Graduate school of Medicine, Chiba University
WS02-05-P	Liver mononuclear cells-derived NK cells for treatment of hepatocellular carcinoma
	 Xin Hu, Masayuki Fujino, Xiao-Kang Li Division of Transplantation Immunology, National Research Institute for Child Health and Development
WS02-06-O/P	Antitumor effect of anti-HLA-F antibody on colon cancer in patient-derived xenografts (PDX) model
	 Noriko Ouji-Sageshima, Masahiro Kitabatake, Ryutaro Furukawa, Toshihiro Ito Department of Immunology, Nara Medical University, Nara, Japan
WS02-07-O/P	Consensus molecular subtypes specific roles of $\gamma\delta$ T cells in colorectal cancer
	○ Toshiyasu Suzuki ^{1, 2)} , Anna Kilbey ^{1, 2)} , Rachel Ridgway ¹⁾ , Hannah Hayman ²⁾ , Ryan Bryne ³⁾ , Michael Verzi ⁴⁾ , Simon Leedham ⁵⁾ , Philip Dunne ³⁾ , Joanne Edwards ²⁾ , Adrian Hayday ⁶⁾ , Owen Sansom ^{1, 2)} , Seth Coffelt ^{1, 2)} ¹¹Cancer Research UK Beatson Institute, Glasgow, UK, ²¹Institute of Cancer Sciences, University of Glasgow, Glasgow, UK, ³¹School of Medicine, Dentistry and Biomedical Sciences, Queen's University, Belfast, UK, ⁴¹Department of Genetics, Human Genetics Institute of New Jersey, Rutgers Cancer Institute of New Jersey, Rutgers University, New Brunswick, New Jersey, USA, ⁵¹Nuffield Department of Medicine, Oxford University, Oxford, UK, ⁵¹The Francis Crick Institute, London, UK
WS02-08-O/P	Alpha-galactosylceramide-loaded antigen-presenting cells induce direct cytotoxicity and adjuvant effects
	of induced pluripotent stem cell-derived natural killer T cells
	☐ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Momoko Okoshi ¹⁾ , Midori Kobayashi ¹⁾ , Munechik Yamaguchi ¹⁾ , Hiroko Okura ¹⁾ , Masami Kawamura ³⁾ , Tomonori Iyoda ³⁾ , Kanako Shimizu ³⁾ , Shin-Ichiro Fujii ³⁾ , Shinichiro Motohashi ²⁾ , Haruhiko Koseki ¹⁾ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Momoko Okoshi ¹⁾ , Midori Kobayashi ¹⁾ , Munechik Yamaguchi ¹⁾ , Hiroko Okura ¹⁾ , Hiroko Okura ¹⁾ , Masami Kawamura ³⁾ , Tomonori Iyoda ³⁾ , Kanako Shimizu ³⁾ , Shin-Ichiro Fujii ³⁾ , Shinichiro Motohashi ²⁾ , Haruhiko Koseki ¹⁾ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Miroko Okoshi ¹⁾ , Midori Kobayashi ¹⁾ , Munechik Yamaguchi ¹⁾ , Hiroko Okura ¹⁾ , Misami Kawamura ³⁾ , Tomonori Iyoda ³⁾ , Kanako Shimizu ³⁾ , Shin-Ichiro Fujii ³⁾ , Shinichiro Motohashi ²⁾ , Haruhiko Koseki ¹⁾ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Miroko Okoshi ¹⁾ , Midori Kobayashi ¹⁾ , Munechik Yamaguchi ¹⁾ , Hiroko Okura ¹⁾ , Hiroko Okura ¹⁾ , Misami Kawamura ³⁾ , Tomonori Iyoda ³⁾ , Kanako Shimizu ³⁾ , Shin-Ichiro Fujii ³⁾ , Shinichiro Motohashi ²⁾ , Haruhiko Koseki ¹⁾ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Misami Kawamura ³⁾ , Shin-Ichiro Fujii ³⁾ , Shinichiro Motohashi ²⁾ , Haruhiko Koseki ¹⁾ Takahiro Aoki ^{1, 2)} , Genta Kitahara ¹⁾ , Misami Kitahara ¹⁾ , Misam
WS02-09-P	Anti-NKT cell antibody treatment enhances anti-tumor activity of NKT cells toward CD1d (-) tumors in a
	CD32 dependent manner
	Mariko Takami, Shinichiro Motohashi Graduate School of Medicine, Chiba University, Chiba, Japan
WS02-10-P	Blockade of aryl hydrocarbon receptor (AhR) signaling enhances anti-tumor efficacy of iNKT cell-based immunotherapy
	Ayana Ishii, Mariko Takami, Shinichiro Motohashi Department of Medical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan
WS02-11-P	Bioinformatic analysis of glioblastoma patient samples revealed a novel immunoregulatory pathway
	initiated by MAIT cells
	○ Masaki Terabe, Taijun Hana Neuro-Oncology Branch, NCI, USA
WS02-12-P	B16 melanoma cells that survive cytotoxic agents are recognized by host immunity but evade
	immunological elimination — Yukie Ando, Sara Hatazawa, Akihiro Nakamura, Yutaka Horiuchi, Takashi Murakami
	Dept. Microbiol., Fac. Med., Saitama Med. Univ.
WS02-13-P	NLRC5 confers to immune response upon cancer ICI therapy and serves as a prediction biomarker
	Xin Sun ¹⁾ , Toshiyuki Watanabe ²⁾ , Ning An ¹⁾ , Hideo Yagita ³⁾ , Koichi Kobayashi ¹⁾ Department of Immunology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²⁾ Hokkaido Medical Center for Rheumatic Diseases, Sapporo, Japan, ³⁾ Department of Immunology, Juntendo University School of Medicine, Tokyo, Japan

WS02-14-P	Activation of MHC class I by controlling NLRC5 nucleocytoplasmic trafficking Baohui Zhu, Ryota Ouda, Koichi Kobayashi
	Department of Immunology, Hokkaido University Graduate School of Medicine, Sapporo, Japan
WS02-15-P	Identification of Zinc Finger protein as a novel regulator of MHC class I
	Ryota Ouda ¹⁾ , Noyuri Zama ¹⁾ , Masashi Watanabe ²⁾ , Xin Sun ¹⁾ , Shigetsugu Hatakeyama ²⁾ , Koichi Kobayashi ¹⁾ Department of Immunology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Department of Biochemistry, Faculty of Medicine and Graduate School of Medicine, Hokkaido University
WS02-16-P	Rapid and efficient detection of neoantigens that elicit immune response and mediate tumor rejection
	Serina Tokita ¹⁾ , Takayuki Kanaseki ¹⁾ , Satoru Matsumoto ^{1,2)} , Toshihiko Torigoe ¹⁾ ¹⁾ Department of Pathology, Sapporo Medical University, Sapporo, Japan, ²⁾ Department of Surgery, IMS Sapporo Digestive Disease Center General Hospital, Sapporo, Japan
WS02-17-P	Proteogenomic approach to obtain a comprehensive picture of HLA-I immunopeptidome for Head and
	Neck Squamous Cell Carcinoma
	Noriko Iwamoto ¹⁾ , Takashi Shimada ¹⁾ , Tarsem L. Moudgil ²⁾ , Ryan Meng ²⁾ , Alexa K. Dowell ²⁾ , Rom S Leidner ²⁾ , William L Redmond ²⁾ , Eric Tran ²⁾ , Brian D Peining ²⁾ , Yoshinobu Koguchi ²⁾ , Bernard A. Fox ^{2, 3)} 1) Technology Research Laboratory, Shimadzu Corporation, Japan, ²⁾ Earle A. Chiles Research Institute, Providence Portland Cancer Institute,
	Portland, OR, USA, 3 UbiVac, Portland. OR, USA
WS02-18-P	Direct identification of an HLA class II neoantigen that induces patient CD4+ T cell responses from colorectal cancer tissue
	Satoru Matsumoto ^{1, 2)} , Takayuki Kanaseki ¹⁾ , Serina Tokita ¹⁾ , Toshihiko Torigoe ¹⁾
	¹⁾ Department of Pathology, Sapporo Medical University School of Medicine, Hokkaido, Japan, ²⁾ IMS Sapporo Digestive Disease Center General Hospital, Hokkaido, Japan
WS02-19-P	Infiltration of tumor-specific regulatory T cells is mediated by MHC class II molecules on endothelial cells
	○ Toshihiro Komatsu¹¹, Takeyuki Shimizu¹¹, Yoshiaki Kubota²¹, Keiko Udaka¹¹
	¹⁾ Department of Immunology, School of Medicine, Kochi University, Kochi, Japan, ²⁾ Departtment of Anatomy, School of Medicine, Keio University, Tokyo, Japan
WS02-20-O/P	Serine threonine kinase 24 (STK24) mediates immune evasion signals in tumors by inducing multiple
	immunosuppressive molecules
	Aya Misawa ^{1,2)} , Shigeki Ohta ^{1,2)} , Ryotaro Imagawa ²⁾ , Yuki Katoh ^{2,3)} , Hidetoshi Sumimoto ²⁾ ,
	Naomi Goto-Matsumoto ⁴⁾ , Kenta Nakamura ⁵⁾ , Ryuhei Okuyama ⁵⁾ , Yutaka Kawakami ^{1, 2)} Department of Immunology, School of Medicine, International University of Health and Welfare, Chiba, Japan, ²⁾ Division of Cellular Signaling,
	Institute for Advanced Medical Research, Keio University School of Medicine, Tokyo, Japan, ³ Division of Anatomical Science, Department of Functional Morphology, Nihon University School of Medicine, Tokyo, Japan, ⁴ Center for Basic Medical Research, School of Medicine, International University of Health and Welfare, Chiba, Japan, ⁵ Department of Dermatology, Shinshu University School of Medicine
WS02-21-P	Single-cell transcriptome reveals comprehensive immune profiles of T follicular helper cell lymphoma
	Sakurako Suma ^{1, 2)} , Manabu Fujisawa ³⁾ , Yoshiaki Abe ¹⁾ , Yasuhito Suehara ^{2, 3)} , Shigeru Chiba ^{2, 3)} , Mamiko Sakata-Yanagimoto ^{2, 3, 4)}
	¹⁾ Department of Hematology, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Tsukuba, Japan., ²⁾ Department of Hematology, University of Tsukuba Hospital, Tsukuba, Japan., ³⁾ Department of Hematology, Faculty of Medicine, University of Tsukuba, Tsukuba, Tsukuba, Japan., ⁴⁾ Division of Advanced Hemato-Oncology, Transborder Medical Research Center, University of Tsukuba, Tsukuba, Japan
WS02-22-P	Spred2 downregulates cancer stemness in HCC cells,targeting on miR-506-3p and its downstream KLF4
	 Tong Gao, Sachio Ito, Masahiro Fujisawa, Toshiaki Ohara, Teizo Yoshimura, Tianyi Wang, Akihiro Matsukawa Graduate School of Medicine, Dentistry and Pharmaceutical Science, Okayama University, Okayama, Japan
WS02-23-P	Basal extrusion of single-oncogenic mutant cells induces dome-like structures with macrophage accumulation
	Miho Sekai ^{1, 2)} , Takanobu Shirai ¹⁾ , Yasuyuki Fujita ¹⁾
	¹⁾ Department of Molecular Oncology, Graduate School of Medicine, Kyoto University, ²⁾ Eisai Co., Ltd.
WS02-24-P	AltR on epithelial cells recognizes MHC-I to eliminate precancerous cells
	Shiyu Ayukawa ¹⁾ , Nagisa Kamoshita ²⁾ , Takeshi Maruyama ²⁾ 1)Adv. Sci. Eng., Waseda University., ²⁾ WIAS, Waseda University

WS02-25-P	Loss of Phospholipase Cy1 suppresses hepatocellular carcinogenesis through blockade of STAT3-
	mediated cancer development in the tumor microenvironment Sang-Kyu Ye, Eun-Bi Seo, Yong-Jin Kwon, Seul-Ki Kim, Songhee Lee, Hyunseung Lee, Chae Myung Kang,
	Su Min Park, Kumhee Noh, Ae Jin Jeong
	Department of Pharmacology and Biomedical Sciences, Seoul National University College of Medicine, Seoul, Republic of Korea
WS02-26-P	Selective expansion of tumor-antigen specific CD8 T cells with engineered exosome
	○ Xiabing Lyu ¹⁾ , Tomoyoshi Yamano ^{1,2)} , Shota Imai ¹⁾ , Rikinari Hanayama ^{1,2)}
	¹⁾ Department of Immunology, Graduate school of medicine, Kanazawa University, Kanazawa, Japan, ²⁾ WPI Nano Life Science Institute, Kanazawa University, Kanazawa, Japan
WS02-27-O/P	Innate immune components critical to the effect of oncolytic virus therapy with HSV-1
	Shumpei Uchida ¹⁾ , Tsukasa Seya ²⁾ , Shizuo Akira ³⁾ , Ryutaro Fukui ⁴⁾ , Kensuke Miyake ⁴⁾ , Tomoki Todo ⁵⁾ , Norimitsu Kadowaki ¹⁾
	¹⁾ Division of Hematology, Faculty of Medicine, Kagawa Univ., Kagawa, Japan, ²⁾ Nebuta Research Institute for Life Sciences, Aomori Univ.,
	Aomori, Japan, ³ Immunology Frontier Research Center, Osaka Univ., Osaka, Japan, ⁴ Division of Infectious Genetics, Institute of Medical Science, Univ. Tokyo, Tokyo, Japan, ⁵ Division of Innovative Cancer Therapy, Institute of Medical Science, Univ. Tokyo, Tokyo, Japan
WS02-28-P	Enzyme-driven de-glycosylation improves antigens recognition
	○ Chih-Yu Lin, Shih-Yu Chen
	Institute of Biomedical Science, Academia Sinica, Taipei, Taiwan
December	r 7
WS03 Infec	etion and Immunity I
WS03-01-O/P	Porphyromnas gingivalis infection triggers enhancement of severity for EAE following inflammasome
	activation in macrophages
	○ Tokuju Okano, Toshihiko Suzuki
	Graduate School of Medical and Dental Sciences Tokyo Medical and Dental University (TMDU)
WS03-02-O/P	The effects of malaria on bone marrow hematopoietic stem cell niches
	O Michelle Sue Jann Lee ^{1, 2)} , Julia Matsuo-Dapaah ¹⁾ , Camila Del Rosario Zorrilla ¹⁾ , Ken J. Ishii ^{2, 3)} , Cevayir Coban ^{1, 2)}
	1)Division of Malaria Immunology, Institute of Medical Science, The University of Tokyo, Japan, 2)International Vaccine Design Center (VDesC),
	The Institute of Medical Science, The University of Tokyo, Japan, ³⁾ Division of Vaccine Science, Institute of Medical Science, The University of Tokyo, Japan
WS03-03-O/P	IFN-γ induced GTPases • GBPchr5 play an important role for anti-Toxoplasma host defense
	Ayumi Kuratani ¹⁾ , Masahiro Yamamoto ^{1,2,3)} 1)Department of Immunoparasitology, RIMD, Osaka University, ²⁾ Laboratory of Immunoparasitology, IFReC, Osaka University, ³⁾ CIDER, Osaka
	Department of infinitiopalastiology, nilvid, osaka offiversity, "Laboratory of infinitiopalastiology, freed, osaka offiversity," Giden, osaka University
WS03-04-O/P	LILRB3 and LILRA6 recognize bacteria in an allele-specific manner
	Gen Hasegawa ¹⁾ , Kouyuki Hirayasu ^{1, 2, 3)} , Yifan Li ³⁾ , Hisashi Arase ^{4, 5)} , Masaya Yamaguchi ⁶⁾ , Shigetada Kawabata ⁷⁾ ,
	Rikinari Hanayama ^{1,2,3,8)}
	¹⁾ Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, Ishikawa, Japan, ²⁾ Advanced Preventive Medical Sciences Research Center, Kanazawa University, Ishikawa, Japan, ³⁾ Department of Immunology, Graduate School of Advanced Preventive
	Medical Sciences, Kanazawa University, Ishikawa, Japan, ⁴⁾ Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka
	University, Osaka, Japan, ⁵⁾ Laboratory of Immunochemistry, Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁵⁾ Bioinformatics Unit, Graduate School of Dentistry, Osaka University, Osaka, Japan, ⁷⁾ Department of Oral and Molecular Microbiology, Graduat
	School of Dentistry, Osaka University, Osaka, Japan, ⁸⁾ WPI Nano Life Science Institute (NanoLSI), Kanazawa University, Ishikawa, Japan
WS03-05-O/P	A novel role of GRIM-19 in cytokine production in macrophages upon mycobacterial infection
	○ Giichi Takaesu ^{1, 2, 3)} , Tomomi Kurane ²⁾ , Masayuki Umemura ^{1, 2, 3)} , Goro Matsuzaki ^{1, 2, 3)}
	¹⁾ Tropical Biosphere Research Center, University of the Ryukyus, ²⁾ Department of Host Defense, Graduate School of Medicine, University of the
	Ryukyus, ³⁾ Advanced Medical Research Center, Faculty of Medicine, University of the Ryukyus

WS03-06-O/P

The intracellular pathogen *Francisella tularensis* escapes from adaptive immunity by metabolic adaptation

○ Kensuke Shibata^{1, 2, 3)}, Takashi Shimizu⁴⁾, Emi Ito²⁾, Francois Legoux⁵⁾, Sho Yamasaki^{2, 6, 7, 8)}, Olivier Lantz⁵⁾, Masahisa Watarai⁴⁾

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WS03-07-O/P

Immunological mechanism for reactivated cryptococcosis in persistently infected mice after treatment with FTY720

○ Michiko Yoshida¹⁾, Nana Nakahata²⁾, Takeshi Shinomiya²⁾, Hayato Sato³⁾, Ko Sato^{2, 4)}, Jun Kasamatsu⁴⁾, Hiromasa Tanno⁵⁾. Emi Kanno⁵⁾. Keiko Ishii²⁾. Kazuvoshi Kawakami²⁾

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WS03-08-O/P

Immune activating receptors specific for variant surface antigens of *Plasmodium falciparum*

Akihito Sakoguchi¹⁾, Samuel Chamberlain²⁾, Matthew Higgins²⁾, Shiroh Iwanaga¹⁾, Hisashi Arase^{3, 4, 5)}

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WS03-09-O/P

Dermanyssus gallinae suppressively modulate host immune responses during infestation

O Sotaro Fujisawa^{1, 2)}, Shiro Murata^{2, 3)}, Masayoshi Isezaki²⁾, Takumi Sato⁴⁾, Eiji Oishi⁴⁾, Akira Taneno⁴⁾, Naoya Maekawa³⁾, Tomohiro Okagawa³⁾, Satoru Konnai^{2, 3)}, Kazuhiko Ohashi^{2, 3, 5)}

¹⁾Department of Molecular Genetics, Graduate School of Medical Science, Kanazawa University, ²⁾Department of Disease Control, Faculty of Veterinary Medicine, Hokkaido University, ³⁾Department of Advanced Pharmaceutics, Faculty of Veterinary Medicine, Hokkaido University, ⁴⁾Vaxxinova Japan K.K., ⁵⁾International Affairs Office, Faculty of Veterinary Medicine, Hokkaido University

WS03-10-P

Prophylactic Effect of Ivermectin on SARS-CoV-2 Induced Disease in a Syrian Hamster Model

Takayuki Uematsu¹⁾, Tomomi Takano²⁾, Anna Kitajima¹⁾, Hidehito Matsui³⁾, Noritada Kobayashi¹⁾, Hideaki Hanaki³⁾
TBiomedical Laboratory, Division of Biomedical Research, Kitasato University Medical Center, Saitama, Japan., ²⁾Laboratory of Veterinary Infectious Disease, Department of Veterinary Medicine, Kitasato University, Towada, Japan., ³⁾Infection Control Research Center, Ömura Satoshi Memorial Institute, Kitasato University, Tokyo, Japan

WS03-11-P

A single immunization with cellular vaccine provides the dual protection against SARS-CoV-2 and cancer

○ Shogo Ueda, Shin-Ichiro Fujii, Kanako Shimizu RIKEN, IMS

WS03-12-P

Molecular mechanism of enhanced infectivity by SARS-CoV-2 Omicron

Shuhei Higuchi^{1,2)}, Liu Yafei^{1,2)}, Wataru Nakai^{1,2)}, Masako Kohyama^{1,2)}, Hisashi Arase^{1,2)}

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WS03-13-P

Zika virus induces pathogenic T cell-attracting chemokines in the central nervous system and exacerbates experimental autoimmune encephalomyelitis

O Naganori Kamiyama, Thanyakorn Chalalai, Sotaro Ozaka, Shimpei Ariki, Yomei Kagoshima, Nozomi Sachi, Takashi Kobayashi

Department of Infectious Disease Control, Faculty of Medicine, Oita University, Oita, Japan

WS03-14-P	Analysis of immune responses in a murine oral candidiasis model Kenji Toyonaga ¹ , Emi Kaji ¹ , Jun-Ichi Nagao ^{1, 2} , Sonoko Tasaki ¹ , Sari Kishikawa ¹ , Kanae Negoro-Yasumatsu ¹ , Yoshihiko Tanaka ^{1, 2} Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, Fukuoka, Japan, Oral Medicine Research Center, Fukuoka Dental College, Fukuoka, Japan
WS03-15-P	The effect of LPS preconditioning on the <i>Plasmodium berghei</i> ANKA blood stage infection
	Takeshi Ono ¹⁾ , Yoko Yamaguchi ¹⁾ , Manabu Kinoshita ²⁾ Department of Global Infectious Diseases and Tropical Medicine, National Defense Medical College, Saitama, Japan, Department of Immunology and Microbiology, National Defense Medical College, Tokorozawa, Japan
WS03-16-P	Investigation of Th17-cell mediated immune response against the pathogenic fungus <i>Candida albicans</i>
	Emi Kaji ^{1, 2)} , Kenji Toyonaga ¹⁾ , Sonoko Tasaki ¹⁾ , Jun-Ichi Nagao ^{1, 3)} , Sari Kishikawa ¹⁾ , Mizuko Ikeda ²⁾ , Yosihiko Tanaka ^{1, 3)} ¹⁾ Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, Fukuoka, Japan, ²⁾ Department of Anaesthesia Management, Fukuoka Dental College, Fukuoka, Japan, ³⁾ Oral Medicine Research Center., Fukuoka Dental College, Fukuoka, Japan
WS03-17-P	Role of thymic stromal lymphopoietin in the protection against <i>Strongyloides venezuelensis</i> infection
	○ Koubun Yasuda¹¹, Atsuhide Koida²¹, Takumi Adachi¹¹, Kazufumi Matsushita¹¹, Etsushi Kuroda¹¹
	¹¹ Department of Immunology, Hyogo Medical University, Hyogo, Japan, ²¹ Department of Otolaryngology–Head and Neck Surgery, Kyoto Prefectural University of Medicine, Kyoto, Japan
WS03-18-P	The alteration of intestinal microbiota, short chain fatty acids receptors and type 2 immune responses
	against gastrointestinal nematode parasite in aged mice
	O Motoko Morimoto ¹⁾ , Wakako Ikeda-Ohtsubo ²⁾ 1)School of Food Industrial Sciences, Miyagi University, ²⁾ Graduate School of Agricultural Sciences, Tohoku University
WS03-19-P	Antibiotics enhance the bacterial evasion from host immunity
	Uki Kimura ¹⁾ , Saiki Karen ¹⁾ , Nobuhiro Matsuyama ¹⁾ , Akiko Takaya ²⁾ , Koji Tokoyoda ¹⁾ Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan., ²⁾ Department of Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan.
WS03-20-P	The evaluation of a novel tuberculosis vaccine with cynomolgus monkeys
	○ Natsuko Yamakawa, Yasuhiro Yasutomi
	Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), Ibaraki, Japan
WS03-21-P	Withdrawn
WS03-22-P	Cervical lymph node-derived CXCR3 ⁺ regulatory T cells alleviate anxiety-like behavior via attenuation of sepsis-associated encephalopathy in the septic mouse model
	Masafumi Saito ¹⁾ , Yuko Ono ¹⁾ , Kyosuke Agawa ²⁾ , Kimihiro Yamashita ²⁾ , Joji Kotani ¹⁾ Division of Disaster and Emergency and Critical Care Medicine, Kobe University Graduate School of Medicine, ²⁾ Division of Gastrointestinal Surgery, Department of Surgery, Kobe University Graduate School of Medicine
WS03-23-P	Development of periodontitis mediated by T-cell immune response against periodontal bacteria
	○ Jun-Ichi Nagao ^{1, 2)} , Sari Kishikawa ¹⁾ , Kenji Toyonaga ¹⁾ , Emi Kaji ¹⁾ , Kanae Negoro-Yasumatsu ¹⁾ , Sonoko Tasaki ¹⁾ , Yoshihiko Tanaka ^{1, 2)}
	¹⁾ Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental Collage, ²⁾ Oral Medicine Research Center, Fukuoka Dental

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College

Distinct roles of IL-27 produced by innate cells in shaping the immune response against Plasmodium WS03-24-P parasite Ganchimeg Bayarsaikhan¹⁾, Shin-Ichi Inoue¹⁾, Kazumi Kimura¹⁾, Hiroki Yoshida²⁾, Masahiro Yamamoto³⁾, Katsuvuki Yui^{1,4)} ¹⁾Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, ²⁾Division of Molecular and Cellular Immunoscience, Department of Biomolecular Science, Faculty of Medicine, Saga University, Saga, Japan, 3 Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁴⁾Institute of Tropical Medicine, Nagasaki University, Nagasaki Japan Improvement of post-exercise immune compromise by consumption of probiotic mix of 30 strains of WS03-25-P bacteria O Rintaro Fujikawa, Tatsunori Mori, Keita Suzuki AuB Ltd. Tokyo, Japan WS03-26-P Interleukin-17A released from intestinal voT cells induces cytokine storm in mice with severe dengue ○ Takeshi Kurosu¹¹). Daisuke Okuzaki²¹. Masaaki Murakami³¹ ¹⁾National Institute of Infectious Diseases, ²⁾WPI Immunology Research Center, Osaka University, ³⁾Institute for Genetic Medicine and Graduate School of Medicine, Hokkaido University **December 7**

WS04 Dendritic cells and macrophages-1: Immune regulation and disease perspectives	
WS04-01-O/P	Dendritic cells regulate peripheral T cell survival through the CD47-SIRPα signaling Yasuyuki Saito¹¹, Satomi Komori¹.²², Hiroki Yoshida¹¹, Risa Sugihara¹¹, Tomoko Takai¹.²², Takenori Kotani¹¹, Yoji Murata¹¹, Takashi Matozaki¹.²² ¹¹Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ²¹Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan
WS04-02-P	Identification of E3 ligase for CIITA Yusuke Kasuga ¹⁾ , Masashi Watanabe ²⁾ , Ryota Ouda ¹⁾ , Shigetsugu Hatakeyama ²⁾ , Koich Kobayashi ¹⁾ Department of Immunology, Hokkaido University Graduate School of Medicine, Sapporo, Hokkaido, Japan, ²⁾ Department of Medical Chemistry, Hokkaido University Graduate School of Medicine, Sapporo, Hokkaido, Japan
WS04-03-O/P	Characterization of tissue macrophages involved in the pathogenesis of type I interferonopathy Taku Sato ¹⁾ , Toshiaki Ohteki ¹⁾ , Takeshi Namiki ²⁾ Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, Department of Dermatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan
WS04-04-O/P	Palladium-induced association of inter-MHC class I is involved in development of metal allergy Koyu Ito ¹⁾ , Masato Kosuge ¹⁾ , Yuri Takeda ²⁾ , Kouetsu Ogasawara ¹⁾ Department of Immunobiology, Institute of Development, Aging, and Cancer, Tohoku University, ²⁾ Division of Oral and Maxillofacial Surgery, Department of Disease Management Dentistry, Tohoku University Graduate School of Dentistry
WS04-05-P	DC have dual function of T cell stimulation and suppression for presented each antigen Yoshihiro Oya ^{1,2} , Tadamichi Kasuya ^{1,3} , Ryutato Matsumura ¹ , Hiroshi Nakajima ³ , Ethan Shevach ²

) Yoshihiro Uya''²⁷, Tadamichi Kasuya''⁹, Ryutato Matsumura'', Hiroshi Nakajima⁹, Ethan Shevach

¹⁾National Hospital Organization Chibahigashi National Hospital, Chiba, Japan, ²⁾National Institute of Allergy and Infectious Diseases, National Institutes of Health, MD, U.S.A, 3)Graduate School of Medicine, Chiba University, Chiba, Japan

Endosomal abnormalities in dendritic cells cause autoimmune liver diseases WS04-06-O/P

○ Shin-Ichiroh Saitoh¹⁾, Kenichi Harada²⁾, Yoshiko Mori-Saitoh¹⁾, Ge-Hong Sun-Wada³⁾, Tamami Denda⁴⁾, Yasunori Ota⁴⁾, Hiroshi Sagara⁵⁾, Yuji Watanabe⁵⁾, Yoh Wada⁶⁾, Kensuke Miyake^{1,7)}

¹⁾Division of Infectious Genetics, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Japan, ²⁾Department of Human Pathology, Kanazawa University School of Medicine, Kanazawa, Japan., ³⁾Department of Biochemistry, Faculty of Pharmaceutical Sciences, Doshisha Women's College, Kohdo, Kyotanabe, Kyoto, Japan., ⁴⁾Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan., 5) Medical Proteomics Laboratory, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan., 6 Division of Biological Science, Institute of Scientific and Industrial Research, Osaka University, Ibaraki, Osaka, Japan.. 7)Laboratory of Innate Immunity, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan

WS04-07-P The out microbial metabolite 10-oxo-cis-6. trans-11-octadecadienoic acid ameliorates colitis in mice with activating the NRF2 pathway in dendritic cells ○ Miki Ando¹¹, Kazuki Nagata¹¹, Naoki Kodama¹¹, Takuya Yashiro¹¹, Naoto Ito¹¹, Gaku Ichihara²¹, Masayuki Yamamoto³¹, Shigenobu Kishino⁴⁾, Jun Ogawa⁴⁾, Chiharu Nishiyama¹⁾ ¹⁾Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan, ²⁾Department of Occupational and Environmental Health, Tokyo University of Science, Tokyo, Japan, 3 Department of Medical Biochemistry, Tohoku University Graduate School of Medicine, Miyagi, Japan. 4)Division of Applied Life Sciences, Graduate School of Agriculture, Kyoto University, Kyoto, Japan WS04-08-O/P Exposure to Multi-Wall Carbon Nanotubes Promotes Fibrous Proliferation by Production of Matrix Metalloproteiase-12 via NF-kB Activation in Chronic Peritonitis Takaaki Tsunematsu, Rieko Arakaki, Mami Sato, Kunihiro Otsuka, Naozumi Ishimaru Department of Oral Molecular Pathology, Tokushima University Graduate School of Biomedical Sciences WS04-09-P Dendritic cell-mediated selective induction of memory CD8+ T cell subsets ○ Momo Kamei¹⁾. Kazuhiko Matsuo¹⁾. Shiki Takamura²⁾. Takashi Nakayama¹⁾ ¹⁾Division of Chemotherapy, Kindai University Faculty of Pharmacy, ²⁾Department of Immunology, Kindai University Faculty of Medicine A new approach to analysis of phagocytosis using CellProfiler WS04-10-P Akito Hattori¹⁾, Kana Onodera²⁾, Riko Hidai¹⁾, Manami Shizu²⁾, Miho Shimizu²⁾, Yuki Nishigai²⁾, Mizuki Hirahara²⁾, Saori Fukuda²⁾, Kazuya Iwabuchi¹⁾, Hideyuki Okano³⁾, Etsuro Ohta^{2, 3, 4, 5)} ¹⁾Program in Cellular Immunology, Graduate School of Medical Science, Kitasato University, Kangawa, Japan, ²⁾Department of Immunology II, Kitasato University School of Allied Health Sciences, Kanagawa, Japan, 3Department of Physiology, Keio University School Medicine, Tokyo, Japan, ⁴R&D center for Cell Design, Institute for Regenerative Medicine and Cell Design, Kitasato University, Kanagawa, Japan, ⁵Division of Clinical Immunology, Graduate School of Medical Sciences, Kitasato University, Kanagawa, Japan A study of the effect of high-fat diet intake on microglia functional activity in APP^{NL-G-F,NL-G-F} Alzheimer's WS04-11-O/P disease model mice O Shuhan Yang, Hirofumi Miyazaki, Yuji Owada Department of Organ Anatomy, Graduate School of Medicine, Tohoku University, Sendai, Japan WS04-12-P Endocytosis of amyloid G42 (AB) in differentiated microglia like cells can be interrupted by IKK inhibitor O Duo Wang, Yasuhiro Yoshida University of Occupational and Environmental Health, Japan WS04-13-O/P Progesterone prevents murine miscarriage by suppressing the immunostimulatory activity of macrophage Yasuyuki Negishi^{1, 2)}, Hajime Ino^{1, 2)}, Yumi Horii^{1, 2)}, Eri Koike¹⁾, Yoshio Shima³⁾, Shunji Suzuki²⁾, Rimpei Morita¹⁾ ¹⁾Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾Department of Obstetrics and Gynecology, Nippon Medical School, Tokyo, Japan, 3 Department of Pediatrics, Nippon Medical School Musashikosugi Hospital, Kanagawa, Japan Multifaceted role of an atypical cyclin protein in regulating inflammation WS04-14-P Yee Kien Chong¹⁾, Sarang Tartey²⁾, Osamu Takeuchi¹⁾

¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, Kyoto, Japan., ²⁾IBM Biosciences Inc, Mountain View, California, US

wso4-15-P Mass spectrometric identification of tryptophan nitration sites on proteins in M1-polarized macrophages

○ Eri Shimura¹⁾, Ayako Shigenaga²⁾, Aiki Murayama¹⁾, Tomoya Nakagawa¹⁾, Ryo Ishihara¹⁾, Takeshi Baba¹⁾, Fumiyuki Yamakura³⁾

¹⁾Faculty of Medicine, Juntendo University, ²⁾Institute of Health and Sports Science & Medicine, Juntendo University, ³⁾Faculty of Health Science, Juntendo University

Intranasal administration of ceramide liposomes inhibits ragweed pollen-induced allergic rhinitis by targeting CD300f

WS04-16-O/P

○ Ayako Kaitani¹¹, Takuma Ide¹.²², Kumi Izawa¹¹, Tomoaki Ando¹¹, Akie Maehara¹, Lisa Yamamoto¹.³³, Yasuharu Kume¹.⁴¹, Hexing Wang¹.⁵¹. Koii Tokushige¹.⁵¹, Nobuhiro Nakano¹¹, Ko Okumura¹¹, Jiro Kitaura¹¹

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WS04-17-P

Polycomb Repressive Complex 2 Epigenetically Regulates Pro-inflammatory Responses in Lipopolysaccharide-tolerant macrophages

○ Atsadang Boonmee^{1, 2)}, Salisa Benjaskulluecha^{2, 3)}, Patipark Kueanjinda^{2, 4)}, Benjawan Wongprom^{1, 2)}, Thitiporn Pattarakankul^{1, 2)}, Junichiro Takano⁵⁾, Haruhiko Koseki⁵⁾, Tanapat Palaga^{1, 2, 3)}

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WS04-18-P

Analysis of physiological function of mutant LRRK2-expressing microglia

○ Riko Hidai¹⁾, Akito Hattori¹⁾, Kana Onodera²⁾, Manami Shizu²⁾, Miho Shimizu²⁾, Yuki Nishigai²⁾, Mizuki Hirahara²⁾, Saori Fukuda²⁾, Masashi Sato¹⁾, Kazuya Iwabuchi¹⁾, Etsuro Ohta^{2,3,4)}

¹⁾Program in Cellular Immunology, Graduate School of Medical Science, Kitasato University, ²⁾Department of Immunology II, Kitasato University School of Allied Health Sciences, ³⁾R&D center for Cell Design, Institute for Regenerative Medicine and Cell Design, Kitasato University, ⁴⁾Division of Clinical Immunology, Graduate School of Medical Sciences, Kitasato University

WS04-19-P

Lipopolysaccharide pre-conditioning upregulates renal macrophage function and ameliorates acute kidney injury associated with *Staphylococcus aureus* bacteremia

○ Keiko Tanoue¹, Hiroyuki Nakashima², Seigo Ito¹,³, Hiroyasu Goto¹, Kazuma Mori², Kazuki Koiwai², Azusa Kato², Masahiro Nakashima², Naoki Oshima¹, Manabu Kinoshita²

¹⁾Department of Nephrology and Endocrinology, National Defense Medical College, Saitama, Japan, ²⁾Department of Immunology and Microbiology, National Defense Medical College, Saitama, Japan, ³⁾Department of Internal Medicine, Self-Defence Force Iruma Hospital, Saitama, Japan

WS04-20-P

Unique cell harvesting technology without trypsinization -Evaluation of surface protein quantity and cytokine production level in mouse macrophage collected by temperature-response cultureware UpCell®-

○ Eriko Ikeda, Asumi Yoshihara, Yuzo Kasuya Cultureware Development Department, CellSeed inc., Tokyo, Japan

WS04-21-P

Elucidation of the pathogenesis of NASH by intravital imaging technology

Junichi Kikuta, Sayaka Ishida, Masaru Ishii

Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University, Osaka, Japan

December 7

WS05 Innate lymphocytes

WS05-01-O/P

Self-antigen for mucosal-associated invariant T (MAIT) cells

○ Emi Ito^{1, 2)}, Ami Takeyama^{1, 2)}, Shotaro Mori^{1, 2)}, Kensuke Shibata³⁾, Eri Ishikawa^{1, 2)}, Masamichi Nagae^{1, 2)}, Sho Yamasaki^{1, 2)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ²⁾Immunology Frontier Research Center, Osaka University, Suita, Japan, ³⁾Department of Microbiology and Immunology, Graduate School of Medicine, Yamaguchi University, Ube, Japan

WS05-02-P

MR1 deficiency enhances IL-17 immune responses in allergic contact dermatitis

Masashi Satoh, Chizuru Oowa, Kazuya Iwabuchi

Department of Immunology, Kitasato University School of Medicine, Sagamihara, Japan

WS05-03-O/P

Elucidation of the role of C1orfX in natural killer cells

○ Elfira Amalia Deborah^{1, 2)}. Tsukasa Nabekura^{1, 3, 4)}. Akira Shibuya^{1, 3, 4)}

¹⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan, ²⁾Doctoral Program in Medical Science, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, ³⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, ⁴⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan

WS05-04-P

Role of homeostatic MHC class I recognition in regulating the function of mature tissue-resident NK cells

○ Ka He¹⁾, Yui Yamamae¹⁾, So-Ichiro Sasaki¹⁾, Hideaki Tahara^{2,3)}, Yoshihiro Hayakawa¹⁾

¹⁾Section of Host Defences, Institute of Natural Medicine, University of Toyama, Toyama, Japan, ²⁾Project Division of Cancer Biomolecular Therapy, Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ³⁾Department of Cancer Drug Discovery and Development, Osaka International Cancer Center, Osaka, Japan

WS05-05-O/P	Caloric restriction induces cellular quiescence in hepatic ILC1s
	O Megumi Tatematsu ¹⁾ , Akane Fuchimukai ¹⁾ , Shunsuke Takasuga ¹⁾ , Tsukasa Nabekura ²⁾ , Akira Shibuya ²⁾ , Takashi Ebihara ¹⁾
	¹⁾ Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾ Department of Immunology, Faculty of Medicine, and Center for TARA, University of Tsukuba
WS05-06-O/P	Anatomic and functional compartmentalization of ILC2s in the small intestine
	Satoshi Koga ¹⁾ , Victor S Cortez ¹⁾ , Claire E O'Leary ¹⁾ , Hong-Erh Liang ¹⁾ , Richard M Locksley ^{1, 2, 3)} Department of Medicine, University of California San Francisco, San Francisco, California, U.S.A., ²⁾ Department of Microbiology & Immunology, University of California San Francisco, San Francisco, California, U.S.A., ³⁾ Howard Hughes Medical Institute, University of California San Francisco, San Francisco, California, U.S.A.
WS05-07-O/P	ILC2-derived IL-13 contributes to endometriosis exacerbation
	○ Kentaro Kubota ^{1, 2)} , Tsuyoshi Kiniwa ¹⁾ , Kazuyo Moro ^{1, 2, 3, 4)}
	¹⁾ Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), Kanagawa, Japan, ²⁾ Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Osaka University Graduate School of Medicine, Osaka, Japan, ³⁾ Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center, Osaka, Japan, ⁴⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School of Frontier Biosciences, Osaka, Japan
WS05-08-P	Low-dose LPS exposure suppresses ILC2-mediated airway inflammation via interstitial macrophages
	○ Naoto Fujioka ^{1, 2)} , Tetsuro Kobayashi ²⁾ , Kazuyo Moro ^{1, 2, 3, 4)}
	¹⁾ Laboratory For Innate Immune Systems, Department Of Immunology And Microbiology, Osaka University Graduate School Of Medicine, Osaka, Japan, ²⁾ Laboratory For Innate Immune Systems, RIKEN Center For Integrative Medical Sciences (IMS), Yokohama, Japan, ³⁾ Laboratory For Innate Immune Systems, Osaka University Immunology Frontier Research Center, Osaka, Japan, ⁴⁾ Laboratory For Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School Of Frontier Biosciences, Osaka, Japan
WS05-09-P	Enrichment of type I interferon signalling in the colonic ILC2 during experimental colitis
	○ Emi Irie, Junya Tsunoda, Kentaro Iwata, Yoshiaki Takada, Yohei Mikami, Takanori Kanai Keio University School of Medicine, Tokyo, Japan
WS05-10-P	IL-33 attenuate renal fibrosis via group2 innate lymphoid cells
	Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, ²⁾ Division of Nephrology, Department of Medicine, Showa University School of Medicine
WS05-11-O/P	Interleukin-27 supports metabolic adaptation of Natural killer T cells and effector responses
	Yasuhiro Kamii ^{1,2)} , Koji Hayashizaki ^{1,3)} , Toshio Kanno ⁴⁾ , Yoshimasa Takahashi ³⁾ , Toshiaki Ohteki ⁵⁾ , Yusuke Endo ⁴⁾ , Yuki Kinjo ^{1,3)}
	¹⁾ Department of Bacteriology, The Jikei University School of Medicine, Tokyo, Japan, ²⁾ Division of Respiratory Diseases, Department of Internal Medicine, The Jikei University School of Medicine, Tokyo, Japan, ³⁾ Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Tokyo, Japan, ⁹⁾ Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, Chiba, Japan, ⁵⁾ Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan
WS05-12-P	The regulatory mechanism of NKT cell and macrophage in ConA-induced hepatitis
	Chizuru Oowa, Masashi Satoh, Kazuya IwabuchiDepartment of Immunology, Kitasato University School of Medicine, Sagamihara, Japan
WS05-13-P	Polycomb group gene Eed is required for invariant NKT development and maturation
	Yun Guo, Masamoto Kanno, Tomoharu Yasuda Department of Immunology, Graduate School of Biomedical & Health Sciences, Hiroshima University, Hiroshima, Japan
WS05-14-O/P	CD96 blockade ameliorates imiquimod-induced psoriasis-like dermatitis via suppression of IL-17A
	production by dermal gdT cells
	○ Kyoko Oh-Oka ¹⁾ , Fumie Abe ²⁾ , Akira Shibuya ^{1, 3, 4)} , Kazuko Shibuya ^{1, 3)}
	¹⁾ Department of Immunology, Faculty of Medicine, University of Tsukuba, ²⁾ TNAX Biopharma Corporation, ³⁾ R&D Center for Innovative Drug Discovery, University of Tsukuba, ⁴⁾ Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba

WS05-15-P Role of IL-21 receptor in IL-17-producing vot cells in the onset of experimental autoimmune encephalomyelitis Junichi Ishikawa, Akira Suto, Takahiro Kageyama, Kazuyuki Meguro, Shigeru Tanaka, Taro Iwamoto, Arifumi Iwata, Shunsuke Furuta, Kei Ikeda, Kotaro Suzuki, Hiroshi Nakaiima Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan Regulatory mechanism of RORvt expression in ILC3 WS05-16-O/P ○ Takuma Fukui¹⁾, Satoshi Kojo²⁾, Eriko Sumiya¹⁾, Shinichi Koizumi¹⁾, Shinichiro Sawa¹⁾ ¹⁾Division of Mucosal Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²⁾Division of Immunology and Stem cell biology, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, Japan WS05-17-O/P Aging alters landscape of pulmonary innate lymphoid cells Masato Asaoka^{1,2)}. Tetsuro Kobavashi¹⁾. Tommy Walter Terooatea³⁾. Jen-Chien Chang³⁾. Akiko Minoda³⁾. Hiroki Kabata²⁾, Kazuyo Moro^{1, 4, 5)} ¹⁾Laboratory for Innate Immune systems. Center for Integrative Medical Sciences. RIKEN. ²⁾Division of Pulmonary Medicine. Department of Medicine, Keio University School of Medicine, 31 Laboratory for Cellular Epigenomics, Center for Integrative Medical Sciences, RIKEN. ⁴⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, 5)Immunology Frontier Research Center, Osaka University A Japanese traditional medicine, Daikenchuto, alleviates colitis by reshaping microbial profiles and WS05-18-O/P enhancing group 3 innate lymphoid cells Naoko Satoh-Takayama^{1,2)}, Zhengzheng Shi^{1,3)}, Tadashi Takeuchi¹⁾, Ritsu Nagata^{1,2)}, Hiroshi Ohno^{1,2,3)} ¹⁾Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ²⁾Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Kanagawa, Japan, 3 Laboratory for Immune Regulation, Graduate School of Medical and Pharmaceutical Sciences, Chiba University, Chiba, Chiba, Japan WS05-19-P Differences of cytokine secretion capacity and gene expression of ILC2s in asthma patients and healthy volunteers ○ Hiroki Kabata¹⁾, Rie Baba¹⁾, Yoshitaka Shirasaki²⁾, Takashi Kamatani^{1,2,3,4)}, Mai Yamagishi⁵⁾, Misato Irie¹⁾, Masako Matsusaka¹⁾, Katsunori Masaki¹⁾, Jun Miyata¹⁾, Kazuyo Moro^{6, 7)}, Sotaro Uemura²⁾, Koichi Fukunaga¹⁾ ¹⁾Division of Pulmonary Medicine. Keio University School of Medicine. ²⁾The University of Tokyo, ³⁾Tokyo Medical and Dental University. ⁴⁾Tokyo Medical and Dental University Hospital, ⁵⁾Live Cell Diagnosis, ⁶⁾RIKEN Center for IMS, ⁷⁾Osaka University WS05-20-P Analysis for induction mechanisms of peritonitis regulated by adipose tissue ○ Ritsu Nagata^{1,2)}. Naoko Satoh-Takayama^{1,2)}. Tommy Terooatea²⁾. Yuichi Akama³⁾. Akiko Minoda²⁾.

Motomu Shimaoka3, Hiroshi Ohno1,2,4)

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WS05-21-P Protein phosphatase 2A regulates NK cell effector function through mTOR pathway

O Yui Yamamae, Yoshihiro Hayakawa

Section of Host Defences, Institute of Natural Medicine, University of Toyama, Toyama, Japan

WS05-22-P

Ablation of the intracellular immune checkpoint molecule CIS potentiates antitumor effects against glioblastoma by unleashing the functions of NK cells derived from human peripheral blood

Tsutomu Nakazawa^{1,2,3)}Ryosuke Maeoka¹⁾Takayuki Morimoto¹⁾Ryosuke Matsuda¹⁾Fumihiko Nishimura¹⁾ Mitsutoshi Nakamura^{1,3)}, Shuichi Yamada¹⁾, Ichiro Nakagawa¹⁾, Young-Soo Park¹⁾, Takahiro Tsujimura^{2,3)}, Hirovuki Nakase¹⁾

¹⁾Department Neurosurgery, Nara Medical University, ²⁾Grandsoul Research Institute for Immunology, ³⁾Clinic Grandsoul Nara

December 7

WS06 Autoimmune diseases -Tissue specific-	
WS06-01-	Autoantigen-specific B cell-targeted single-cell RNA-seq indicates multiple roles of B cells in pemphigus Jun Yamagami ^{1,2)} , Shohei Egami ^{1,3)} , Takashi Watanabe ⁴⁾ , Ayano Fukushima-Nomura ¹⁾ , Hisashi Nomura ¹⁾ , Hayato Takahashi ¹⁾ , Osamu Ohara ⁴⁾ , Masayuki Amagai ^{1,3)} Department of Dermatology, Keio University School of Medicine, ²⁾ Department of Dermatology, Tokyo Women's Medical University, ³⁾ Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, ⁴⁾ Laboratory for integrative genomics, RIKEN Center for Integrative Medical Sciences
WS06-02-	-O/P Analysis of naïve B cell in neuromyelitis optica spectrum disorders
	Shuhei Sano ¹⁾ , Soichiro Yoshikawa ¹⁾ , Daisuke Noto ¹⁾ , Yasunobu Hoshino ^{1, 2)} , Yuji Tomizawa ²⁾ , Kazumasa Yokoyama ²⁾ , Nobutaka Hattori ²⁾ , Sachiko Miyake ¹⁾ ¹⁾ Department of Immunology, Juntendo university, Tokyo, Japan, ²⁾ Department of neurology, Juntendo university, Tokyo, Japan
WS06-03-	-O/P Roles of anti-glycolipid antibodies in different animal models of multiple sclerosis with distinct clinical courses
	Fumitaka Sato ¹⁾ , Yumina Nakamura ¹⁾ , Kota Moriguchi ^{1,2)} , Ah-Mee Park ¹⁾ , Motoi Kuwahara ³⁾ , Seiichi Omura ¹⁾ , Sundar Khadka ¹⁾ , Ijaz Ahmad ¹⁾ , Susumu Kusunoki ⁴⁾ , Ikuo Tsunoda ¹⁾ ¹⁾ Department of Microbiology, Kindai University Faculty of Medicine, Osaka, Japan, ²⁾ Department of Internal Medicine, Japan Self Defense Forces Hanshin Hospital, Hyogo, Japan, ³⁾ Department of Neurology, Kindai University Faculty of Medicine, Osaka, Japan, ⁴⁾ Japan Community
	Health care Organization (JCHO) Headquarters, Tokyo, Japan
WS06-04-	Progressive multiple sclerosis patient-derived gut bacterial strain accelerates neuronal inflammation via intestinal Th17 cells
	O Daiki Takewaki ¹⁾ , Wakiro Sato ¹⁾ , Hiroaki Masuoka ²⁾ , Masahira Hattori ²⁾ , Wataru Suda ²⁾ , Takashi Yamamura ¹⁾ 1)National Center of Neurology and Psychiatry, Kodaira, Japan, ²⁾ RIKEN, Yokohama, Japan
WS06-05-	γδΤ17 cells in Peyer's patches acquire the encephalitogenic phenotype through the activation by commensals and exacerbates autoimmune encephalomyelitis Seiga Komiyama ¹ , Daisuke Takahashi ² , Tsuneyasu Kaisho ³ , Koji Hase ²
	¹⁾ Division of Biochemistry, Graduate School of Pharmacy, Keio University, Tokyo, Japan, ²⁾ Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, ³⁾ Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan
WS06-06-	-O/P Gut microbiota regulated miRNA disturbs BBB integrity in EAE
	Manu Mallahalli ¹⁾ , Manu Mallahalli ¹⁾ , Hirohiko Hohjoh ²⁾ , Wakiro Sato ¹⁾ , Shinji Oki ¹⁾ , Takashi Yamamura ¹⁾ ¹⁾ Department of Immunology, National Institute of Neuroscience, NCNP, Tokyo, Japan., ²⁾ Department of Molecular Pharmacology, National Institute of Neuroscience, NCNP, Tokyo, Japan.
WS06-07-	to to the contract of the
	Ming-Han ChenDivision of Allergy- Immunology- Rheumatology, Department of Medicine, Taipei Veterans General Hospital, Taipei, Taiwan

WS06-08-O/P Roles of Histone Deacetylases in Orbital Fibroblasts from Graves' Ophthalmopathy Patients

○ Supanuch Ekronarongchai¹⁾, Pimchanok Phankeaw¹⁾, Chirayus Khawsang²⁾, Tanapat Palaga²⁾, Preamjit Saonanon³⁾, Vannakorn Pruksakorn³⁾, Nattiya Hirankarn⁴⁾, P. Martin van Hagen^{4,5,6)}, Willem A. Dik⁵⁾, Sita Virakul²⁾

¹⁾Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand., ²⁾Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand., ³⁾Department of Ophthalmology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand., ⁴Department of Microbiology, Faculty of Medicine, Center of Excellence in Immunology and Immune Mediated Diseases, Chulalongkorn University, Bangkok, Thailand., ⁵Laboratory Medical Immunology, Department of Immunology, Erasmus MC, University Medical Center, Rotterdam, the Netherlands., ⁵Division of Clinical Immunology, Department of Internal Medicine, Erasmus MC, University Medical Center, Rotterdam, the Netherlands

WS06-09-P

Low *MICA* transcription levels are associated with the risk of Graves' disease: Mendelian randomization study

○ Yoichi Sutoh¹⁾, Shohei Komaki¹⁾, Taiki Yamaji²⁾, Shiori Nakano²⁾, Ryoko Katagiri²⁾, Norie Sawada³⁾, Hideki Ohmomo^{1,4)}, Tsuyoshi Hachiya¹⁾, Yayoi Otsuka-Yamasaki¹⁾, So Umekage¹⁾, Motoki Iwasaki^{2,3)}, Atsushi Shimizu^{1,4)}

¹⁾Division of Biomedical Information Analysis, Iwate Tohoku Medical Megabank Organization, Disaster Reconstruction Center, Iwate Medical University, ²⁾Division of Epidemiology, National Cancer Center Institute for Cancer Control, ³⁾Division of Cohort research, National Cancer Center Institute for Cancer Control, ⁴⁾Biomedical Laboratory Sciences, Institute of Biomedical Sciences, Iwate Medical University

WS06-10-P

Roles of Histone Methyltransferases in Orbital Fibroblast in the pathogenesis of Graves' Ophthalmopathy

○ Sita Virakul¹⁾, Sopita Visamol²⁾, Tanapat Palaga¹⁾, Preamjit Saonanon³⁾, Vannakorn Pruksakorn³⁾, Nattiya Hirankarn⁴⁾, P. Martin Van Hagen^{5, 6)}, Willem A. Dik⁵⁾

¹⁾Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, ²⁾Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand, ³⁾Department of Ophthalmology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁴⁾Center of Excellence in Immunology and Immune mediated Disease, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁵⁾Department of Immunology, Laboratory Medical Immunology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands, ⁶⁾Department of Internal Medicine, Division of Clinical Immunology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands

WS06-11-P

Elastin as novel biomarkers of orbital fibroblasts from Graves' Ophthalmopathy (GO)

○ Rajit Chompoowong¹⁾, Jutamas Wongphoom²⁾, Nakarin Kitkumtorn³⁾, Tanapat Palaga⁴⁾, Preamjit Saonanon⁵⁾, Vannakorn Pruksakorn⁵⁾, Nattiya Hirankarn⁶⁾, P. Martin Van Hagen^{6,7,8)}, Willem A. Dik^{7,8)}, Sita Virakul⁴⁾

¹⁾Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand, ²⁾Department of Pathology, King Chulalongkorn Memorial Hospital, Bangkok, Thailand, ³⁾Department of Oral Biology, Faculty of Dentistry, Mahidol University, Bangkok, Thailand, ⁴⁾Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, ⁵⁾Department of Ophthalmology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁶⁾Center of Excellence in Immunology and Immune Mediated Disease, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁷⁾Department of Immunology, Laboratory Medical Immunology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands, ⁸⁾Department of Internal Medicine, Division of Clinical Immunology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands

WS06-12-P

The role of Clec1A in the development of experimental autoimmune encephalomyelitis

🔾 Xiao-Qi Ye, Yulia Makusheva, Soo-Hyun Chung, Ce Tang, Yoichiro Iwakura

Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science

WS06-13-P

Interferon-y signaling in Treg cells is required for suppression of EAE

○ Masaaki Okamoto¹⁾, Masahiro Yamamoto^{1, 2, 3)}

¹⁾Department of Immunoparasitology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, Osaka University, ³⁾Department of Immunoparasitology, Center for Infectious Disease Education and Research, Osaka University

WS06-14-P

AQP4 peptide immunization induces neurological disease with clinical features of neuromyelitis optica spectrum disorder in mice

O Shota Miyake, Kenichi Serizawa, Yoshichika Katsura, Keigo Yorozu, Mitsue Kurasawa, Haruna Tomizawa-Shinohara, Hidevuki Yasuno, Yoshihiro Matsumoto

Product Research Department, Chugai Pharmaceutical Co., Ltd, Kanagawa, Japan

WS06-15-P

Autoreactive lymphocytes are generated in draining lymph nodes

O Wataru Okada, Sano Nagano, Kana Matsuo, Miya Yoshino, Koji Tokoyoda

Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan

WS06-16-P

Withdrawn

Graduate School of Medicine

WS06-17-P

Regulatory mechanism of up-regulation of IL-10 by the Ca²⁺-activated K⁺ channelinhibition in mice regulatory T cells

O Miki Matsui, Kyoko Endo, Susumu Ohya

Department of Pharmacology, Graduate School of Medical Sciences, Nagoya City University, Nagoya, Japan

WS06-18-P

The protective effect of Limonite on streptozotocin-induced type 1 diabetes

Tomoko Ano¹⁾, Taro Yasuma^{1, 2)}, Corina N. D'Alessandro-Gabazza¹⁾, Valeria Fridman D'Alessandro ¹⁾, Chisa Inoue^{1, 2)}, Yuko Okano^{1, 2)}, Atsuro Takeshita^{1, 2)}, Masaaki Toda¹⁾, Kota Nishihama²⁾, Yutaka Yano²⁾, Esteban C Gabazza¹⁾
¹⁾Department of Immunology, Mie University Graduate School of Medicine, ²⁾Department of Diabetes and Endocrinology, Mie University

WS06-19-P	Single cell-RNA sequencing of T cells in Akita mouse developing experimental autoimmune uveitis
	Yoshiaki Nishio ¹⁾ , Kozo Harimoto ¹⁾ , Tomohito Sato ¹⁾ , Masataka Ito ²⁾ , Masaru Takeuchi ¹⁾ Department of Ophthalmology, National Defense Medical Collage, Saitama, Japan, Department of Developmental Anatomy, National Defense
	Medical Collage, Saitama, Japan
WS06-20-P	Relevance of the TRAb-IgM induced by Epstein-Barr virus reactivation to Graves' disease
	○ Keiko Nagata ¹⁾ , Kazuhiko Hayashi ²⁾ , Takeshi Imamura ¹⁾
	¹⁾ Division of Pharmacology, Faculty of Medicine, Tottori University, ²⁾ Department of Pathology, Faculty of Medicine, Tottori University
WS06-21-P	Expression analysis of follicular helper T cells in multiple sclerosis relapses
	○ Ayako Koguchi¹¹, Reiko Kawasaki¹¹, Daisuke Motooka²¹, Kaori Sakuishi³³, Tatsushi Toda¹¹
	¹⁾ Department of Neurology, the University of Tokyo, Tokyo, Japan, ²⁾ NGS core facility, Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ³⁾ Department of Neurology, Teikyo University, Chiba Medical Center, Chiba, Japan
Decembe	er 7
WS07 Mu	cosal-Skin Immunity
WS07-01-O/P	Lactococcus lactis subsp. Cremoris C60 establishes anti-inflammatory intestinal environment by increasing interleukin-10 producing CD4 ⁺ T cells
	○ Noriko Tsuji ^{1, 2, 3)} , Suguru Saito ^{2, 4)} , Toshio Maekawa ^{1, 2)}
	¹⁾ Microbiology/ Immune Homeostasis, Dept. Pathology and Microbiology, Nihon University School of Medicine, ²⁾ Cellular and Molecular Engineering, Dept. Life Technology and Science, AIST, ³⁾ Dept. Food Science, Jumonji University, ⁴⁾ Dept. Dentistry, Faculty of Medicine and
	Dentistry, University of Alberta
WS07-02-P	Gut dysbiosis abrogates the establishment of oral tolerance through the dysregulation of the crosstalk between CD103 ⁺ conventional dendritic cells and innate lymphoid cells in mesenteric lymph nodes
	 Tomohiro Fukaya, Tomofumi Uto, Moe Tominaga, Katsuaki Sato Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki
WS07-03-O/P	Withdrawn
WS07-04-O/P	Decoding Interactions between Environmental Small Molecules and Host Receptors in the Gut
	○ Motohiko Kadoki ^{1,2)} , Daniel Graham ¹⁾ , Ramnik Xavier ^{1,2)}
	¹⁾ Broad Institute, Massachusetts, USA, ²⁾ Center for Computational and Integrative Biology, Massachusetts General Hospital, Massachusetts, USA
WS07-05-O/P	CARS2-dependent sulfur metabolism controls intestinal inflammation by suppressing CD4 ⁺ T cell proliferation
	Shunichi Tayama, Takeshi Kawabe, Kyoga Hiraide, Jing Li, Ziying Yang, Kosuke Sato, Akihisa Kawajiri,
	Yuko Okuyama, Naoto Ishii Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Miyagi, Japan
WS07-06-O/P	Deep profiling identifies a unique tissue resident CD4+ T-cell subset enriched in Crohn's disease
W307-00-O/F	Takehito Yokoi, Mari Murakami, Kiyoshi Takeda
	Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan
WS07-07-O/P	Gut-resident innate lymphoid cells regulate lipid metabolism in response to malnutrition
	○ Takuma Misawa, Shigeo Koyasu
	Yokohama City, Kanagawa, Japan, RIKEN IMS Laboratory for Immune Cell Systems
WS07-08-P	An II23a-Venus reporter strain reveals the spatio-temporal regulation of IL-23-producing cDC2 subset in
	gut-associated lymphoid tissues
	Opiya Ohara, Hitomi Watanahe, Vusuke Takeuchi, Voonha Lee, Mukoyama Hiroki, Gen Kondoh, Kejii Hirota

Institute for life and medical science, kyoto university, kyoto, japan

WS07-09-P	Secretory leukocyte protease inhibitor ameliorates murine experimental colitis by protecting the intestinal epithelial barrier
	○ Sotaro Ozaka ^{1, 2)} , Shimpei Ariki ^{1, 2)} , Yomei Kagoshima ^{1, 2)} , Naganori Kamiyama ¹⁾ , Nozomi Sachi ¹⁾ ,
	Thanyakorn Chalalai ¹⁾ , Astri Dewayani ¹⁾ , Takashi Kobayashi ¹⁾ Department of Infectious Disease Control, Faculty of Medicine, Oita University, Oita, Japan, ²⁾ Department of Gastroenterology, Faculty of Medicine, Oita University, Oita, Japan
WS07-10-P	Roles of IL5 on maintenance of intestinal homeostasis in Ncx KO mice
	○ Yoshio Katsumata ^{1, 2)} ¹¹Department of Pediatric Surgery, Graduate School of Medicine, Chiba University, Chiba, Japan, ²¹Department of Biomedical Science, Graduate School of Medicine, Chiba University, Chiba, Japan
WS07-11-P	Deubiquitinase OTUD3 prevents colitis by regulating microbiota-dependent STING activation in stromal cell
	Bo Li ¹⁾ , \bigcirc Haruka Tani ^{1,2)} , Taiki Sakaguchi ¹⁾ , Hisako Kayama ^{1,2,3)} , Kiyoshi Takeda ^{1,2,4)}
	¹⁾ Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Suita, Osaka Japan, ²⁾ WPI Immunology Frontier Research Center, Osaka University, Suita, Osaka, Japan., ³⁾ Institute for Advanced Co-Creation Studies, Osaka University, Suita, Osaka, Japan., ⁴⁾ Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Suita, Japan.
WS07-12-P	Plasmodium infection causes the dysfunction of gastrointestinal system
	Mariko Kamioka ^{1, 2)} , Julia Matsuo-Dapaah ^{1, 3)} , Michelle Sue Jann Lee ^{1, 4)} , Cevayir Coban ^{1, 3, 4)} ¹⁾ Division of Malaria Immunology, Department of Microbiology and Immunology, Institute of Medical Science, University of Tokyo (IMSUT), 2) JSPS Research Fellowship for Young Scientists, Japan Society for the Promotion of Science, 3)Graduate School of Medicine, University of Tokyo, 4)International Vaccine Design Center, Institute of Medical Science, University of Tokyo (IMSUT)
WS07-13-P	Prip2 is required for the formation of gut-associated lymphoid tissue
	O Naoko Kiya ¹⁾ , Shinichiro Sawa ¹⁾ , Miho Matuda ²⁾
	¹⁾ Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University., ²⁾ Laboratory of Molecular and Cellular Biochemistry, Division of Oral Biological Sciences, Kyushu University
WS07-14-P	Analysis of fibroblasts that initiate iBALT formation during influenza virus infection
	Shini-Ichi Koizumi ¹ , Eriko Sumiya ¹ , Satoshi Kojo ² , Natoto Noguchi ¹ , Shinichiro Sawa ¹ ¹ Division of mucosal immunology, Medical Institute of Bioregulation, Kyushu university, ² Division of immunology and stem cell biology, Pharmaceutical and Health Sciences, Kanazawa university
WS07-15-O/P	Mode of action analysis of IL-33 as a mucosal adjuvant
	O Amane Mukai ¹⁾ , Koubun Yasuda ¹⁾ , Shiori Egashira ¹⁾ , Takumi Adachi ¹⁾ , Kazufumi Matsushita ¹⁾ , Tomoaki Hoshino ²⁾ , Etsushi Kuroda ¹⁾
	¹⁾ Department of Immunology, Hyogo Medical University, School of Medicine, ²⁾ Division of Respirology, Neurology, and Rheumatology, Department of Medicine, Kurume University School of Medicine
WS07-16-O/P	Skin-resident ILC1 promote barrier response against mechanical stress
	Tetsuro Kobayashi ¹⁾ , Aki Minoda ²⁾ , Kazuyo Moro ^{1,3,4)} Thinate Immune Systems, IMS, RIKEN, Yokohama, Japan, Cellular Epigenomics, IMS, RIKEN, Yokohama, Japan, Innate Immune Systems, Osaka University Graduate School of Medicine, Osaka, Japan, Innate Immune Systems, Osaka University Immunology Frontier Research Center, Osaka, Japan
WS07-17-O/P	M2 macrophages generated in the termination phase of skin allergic inflammation display high
	efferocytic capacity and promote resolution of inflammation
	Ckensuke Miyake ¹⁾ , Junya Ito ¹⁾ , Kazufusa Takahashi ¹⁾ , Jun Nakabayashi ²⁾ , Shigeyuki Shichino ³⁾ , Hajime Karasuyama ¹⁾ Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, ²⁾ Institute of Education, Tokyo Medical and Dental University (TMDU), ³⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases Research Institute of Biomedical Sciences, Tokyo University of Science, Noda, Japan
WS07-18-P	Dermatitis and other inflammatory diseases induced by GATA3 mutations in T cells
	 Shoichiro Miyatake Department of Immunology, Graduate School of Environmental Health Sciences, Azabu University, Kanagawa, Japan

WS07-19-P	Role for skin sensory nerves in controlling inflammation in the mouse model of atopic dermatitis
	○ Sonoko Takahashi, Takaharu Okada
	RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan
WS07-20-P	Lymphotoxin β receptor signaling mediates the formation of high endothelial venule-like vessels in atopic dermatitis-like skin lesions in mice
	Shuto Kanameishi ¹⁾ , Sachiko Ono ¹⁾ , Yuki Honda Keith ^{1, 2)} , Ryota Asahina ¹⁾ , Tetsuya Honda ³⁾ , Kenji Kabashima ^{1, 4)} ¹⁾ Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾ Immunology Division, Garvan Institute of Medical Research, Sydney, NSW, Australia, ³⁾ Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Japan, ⁴⁾ Singapore Immunology Network (SIgN) and Skin Research Institute of Singapore, Agency for Science, Technology and Research, Biopolis, Singapore
WS07-21-P	Different mucosal adjuvanticity of polymyxin B for influenza virus and SARS-CoV-2
	O Naoto Yoshino, Takashi Odagiri, Masahiro Kimura, Yasushi Muraki Division of Infectious Diseases and Immunology, Department of Microbiology, School of Medicine, Iwate Medical University, Iwate, Japan
WS07-22-P	Senescence of alveolar epithelial cells impacts initiation and chronic phases of murine fibrosing
	interstitial lung disease
December	7
WS08 Anti S	ARS-CoV-2 immune responses and Antibody producers
————	
WS08-01-O/P	Role of germinal center response in the antibody responses against SARS-CoV-2 spike protein
	Jumana Khalil ¹ , Kosuke Miyauchi ² , Yuichiro Yamamoto ³ , Kouji Noguchi ³ , Rina Hashimoto ⁴ , Kazuo Takayama ⁴ , Masato Kubo ^{1,2}) ¹⁾ Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Noda, Japan, ²⁾ Laboratory for Cytokine Regulation, Center for Integrative Medical Sciences, RIKEN, Yokohama, Japan, ³⁾ Department of Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, Tokyo University of Science, Noda, Japan, ⁴⁾ Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan
WS08-02-P	Development of neutralizing antibodies for SARS-CoV-2 by analyzing B cell receptors in FFPE lung lobe
	○ Sadahiro Iwabuchi ¹⁾ , Tomohide Tsukahara ²⁾ , Toshitugu Okayama ³⁾ , Tadashi Imafuku ¹⁾ , Kazuho Ikeo ³⁾ , Toshikazu Kondo ⁴⁾ , Toshihiko Torigoe ²⁾ , Hiroki Yamaue ⁵⁾ , Shinichi Hashimoto ¹⁾
	¹⁾ Department of Molecular Pathophysiology, Wakayama Medical University, Wakayama, Japan, ²⁾ Department of Pathology, Sapporo Medical University School of Medicine, Hokkaido, Japan, ³⁾ Laboratory of DNA Data Analysis, National Institute of Genetics, Shizuoka, Japan, ⁴⁾ Department of Forensic Medicine, Wakayama Medical University, Wakayama, Japan, ⁵⁾ Department of Cancer Immunology, Wakayama Medical University, Wakayama, Japan
WS08-03-P	Early CD4 ⁺ T cell responses elicited by COVID-19 mRNA vaccine predicts long term immunological memory
	Jie Bai¹¹, Asako Chiba¹¹, Goh Murayama²¹, Taiga Kuga¹, ²², Yoshiyuki Yahagi¹, ²², Naoto Tamura²¹, Sachiko Miyake¹¹ ¹¹Juntendo University Graduate School of Medicine, Department of Immunology, ²¹Juntendo University School of Medicine, Department of Internal Medicine and Rheumatologyc
WS08-04-P	Prediction of the structure of IRF4 transcription factor complex and control of IRF4 complex formation
	 Katsuya Sato, Hitoshi Nagaoka Department of Molecular Pathobiochemistry, Gifu University School of Medicine, Gifu, Japan
WS08-05-P	Distinctive high expression of antiretroviral APOBEC3 protein in germinal center B cells
	 Shota Tsukimoto^{1, 2)}, Sachiyo Tsuji-Kawahara²⁾, Takuji Enya²⁾, Yoshiyuki Hakata²⁾, Tetsuo Tsukamoto³⁾, Masaaki Miyazawa^{2, 4)} ¹⁾Department of Anesthesiology, Faculty of Medicine, Kindai University, Osaka, Japan, ²⁾Department of Immunology, Faculty of Medicine, Kindai University, Osaka, Japan, ³⁾Department of Health Informatics, Niigata University of Health and Welfare, Niigata, Japan, ⁴⁾Anti-Aging Center,
	Kindai University, Osaka, Japan

WS08-06-P	STAP-1 regulates germinal center formation through CD40 signals in B cells
	Shoya Kawahara ¹⁾ , Jun-Ichi Kashiwakura ²⁾ , Kenji Oritani ³⁾ , Tadashi Matuda ¹⁾ 1)Department of Immunology, Graduate School of Pharmaceutical Sciences, Hokkaido University, Hokkaido, Japan, ²⁾ Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, Hokkaido, Japan, ³⁾ Department of Hematology, International University of Health and Welfare, Tochigi, Japan
WS08-07-O/P	STIM-mediated store-operated calcium entry regulates maintenance and selection of germinal center B cells
	○ Yutaro Yada¹¹, Masanori Matsumoto²¹, Takeshi Inoue³¹, Daisuke Kitamura⁴¹, Tomohiro Kurosaki³,⁵, Yoshihiro Baba¹¹ ¹¹Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²¹Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, Ann Arbor, MI, USA., ³¹Laboratory for Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Suita, Osaka, Japan., ⁴¹Division of Molecular Biology, Research Institute for Biomedical Sciences, Tokyo University of Science, Noda, Chiba, Japan, ⁵¹Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Kanagawa, Japan
WS08-08-P	The dynamics of essential trace element metabolism in B cell immune response
	Akihiko Muto
	Department of Biochemistry, Tohoku University Graduate School of Medicine
WS08-09-O/P	The effect of iron metabolism on antibody production of B cell
	O Mayuko Shimoda ¹⁾ , Mayumi Niimura ¹⁾ , Yuki Takeshima ¹⁾ , Chanida Thinyakul ¹⁾ , Narumi Harada ¹⁾ , Saisai Liu ¹⁾ , Toshiro Moroishi ^{1, 2)}
	¹⁾ Department of Cell Signaling and Metabolic Medicine, Faculty of Life Sciences, Kumamoto University, ²⁾ Center for Metabolic Regulation of Healthy Aging, Faculty of Life Sciences, Kumamoto University
WS08-10-O/P	HNRNPU Promotes Antibody Class Switch Recombination through NHEJ and R-loop Regulation at the IgH locus
	Ahmed M. Refaat ^{1, 2)} , Nasim A. Begum ¹⁾ , Afzal Husain ³⁾ , Mikiyo Nakata ¹⁾ , Hidetaka Kosako ⁴⁾ , Tasuku Honjo ¹⁾ Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunothology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾ Zoology Department, Faculty of Science, Minia University, El-Minia, Egypt, ³⁾ Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh, Uttar Pradesh, India, ⁴⁾ Division of Cell Signaling, Institute of Advanced Medical Sciences, The University of Tokushima, Tokushima, Japan
WS08-11-O/P	NOP16, a novel regulator of histone modification, regulates B-cell class switch recombination
	Yohana Mtali, Ken Takashima, Atsushi Irie, Hiroyuki Oshiumi Department of Immunology, Graduate school of medical science, Kumamoto University, Kumamoto, Japan
WS08-12-P	PP2A family molecule is involved in the regulation of IgE class switch recombination and the
	differentiation in human peripheral blood B cells Kano Tanabe, Yukinori Kozuma
	Faculty of Health Science, Kumamoto Health Science Uniersity, Japan
WS08-13-O/P	Novel strategy for treatment of allergic diseases by regulation of IgA class switching
	Naoki Morita ¹⁾ , Reiko Shinkura ¹⁾ , Hirotatsu Kojima ²⁾
	¹⁾ Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²⁾ Drug Discovery Initiative, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS08-14-O/P	Identification of IgA autoantibodies against glomerular mesangial cells and the target autoantigen using
	an IgA nephropathy mouse model
	O Yoshihito Nihei ^{1, 2)} , Kei Haniuda ²⁾ , Mizuki Higashiyama ²⁾ , Hiroyuki Iwasaki ¹⁾ , Shohei Asami ²⁾ , Yusuke Suzuki ¹⁾ , Daisuke Kitamura ²⁾
	¹⁾ Department of Nephrology, Juntendo University Faculty of Medicine, Tokyo, Japan., ²⁾ Division of Cancer Cell Biology, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science, Noda, Japan
WS08-15-P	A mechanism for anti-mesangium IgA production in an IgA nephropathy mouse model
	○ Mizuki Higashiyama ¹⁾ , Kei Haniuda ^{1,2)} , Yoshihito Nihei ³⁾ , Riku Hisato ¹⁾ , Daisuke Kitamura ¹⁾
	¹⁾ Division of Molecular Biology, Research Institute for Biomedical Sciences(RIBS), Tokyo University of Science, Chiba, Japan, ²⁾ Department of Immunology, University of Toronto, Toronto, Canada, ³⁾ Department of Nephrology, Juntendo University Faculty of Medicine, Tokyo, Japan

WS08-16-O/P	Immunoglobulin A deficiency breaks immunological and neurological homeostasis
	○ Takahiro Adachi
	Medical Research Institute, Tokyo Medical and Dental University, Japan
WS08-17-P	Deduced function of DOCK11 in B cells in secondary immune responses with protein antigens
	○ Yuma Sugiyama ¹⁾ , Mitsuhiro Fujiwra ²⁾ , Akihiko Sakamoto ¹⁾ , Akihiko Nishikimi ²⁾ , Mitsuo Maruyama ^{1,3)}
	¹⁾ Department of Inflammation and Immunosenescence, Geroscience Research Center, Research Institute, National Center for Geriatrics and Gerontology, Obu, Aichi, Japan, ²⁾ Biosafety Division, Research Institute, National Center for Geriatrics and Gerontology, Obu, Aichi, Japan, ³⁾ Department of Aging Research, Nagoya University Graduate School of Medicine, Nagoya, Japan
WS08-18-P	Histone variant H3.3 expression controls the plasma cell differentiation
	○ Yuichi Saito¹¹, Yoshihiro Baba¹¹, Yasuyuki Ohkawa²¹, Akihito Harada²¹
	¹⁾ Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²⁾ Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS08-19-O/P	The regulation of B cell chromatin by a non-histone chromatin protein PC4 and its interacting transcription factors
	○ Kyoko Ochiai, Kazuhiko Igarashi
	Tohoku University Graduate School of Medicine
WS08-20-O/P	Genetic tracing of plasma cells reveals cellular dynamism during entry to long-lived compartment
	○ Takuya Koike ^{1,2)} , Kentaro Fujii ^{2,3)} , Kohei Kometani ^{2,4)} , Shinya Yari ^{2,3)} , Junichi Kikuta ^{2,3)} , Masaru Ishii ^{2,3)} , Tomohiro Kurosaki ²⁾ , Wataru Ise ^{1,2)}
	¹⁾ Center for Infectious Disease Education and Research, Osaka University, Osaka, Japan, ²⁾ WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, ³⁾ Graduate School of Medicine and Frontier Biosciences, Osaka University, Osaka, Japan, ⁴⁾ Center for iPS Cell Research and Application, Kyoto University, Kyoto, Japan
WS08-21-O/P	In vivo predominant immunoglobulin secretion in the bone marrow IgG-secreting plasma cells
	○ Shogo Tsuda, Harumi Sasaki, Akihiko Murata, Koji Tokoyoda
	Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan
WS08-22-O/P	Lymphocyte infiltration into liver was enhanced in high-fat diet-loaded LDL receptor and MD-1 double- deficient mice
	 Sachiko Akashi-Takamura, Mrityunjoy Biswas, Susumu Tomono, Tatsuya Yamazaki, Masanori Inui, Sajid Iftekhar Chowdhury
	Department of Microbiology and Immunology, Aichi Medical University, School of Medicine, Nagakute, Japan
December	7
WS09 Molec	ular and cellular diversity of allergic disease
WS09-01-O/P	Spontaneous dermatitis associated with elevated sebaceous lipid production in <i>Tmem79</i> -deficient mice
	¹⁾ Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ²⁾ Laboratory for Skin Homeostasis, RIKEN Center for Integrative

¹⁾Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, ²⁾Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ³⁾Advanced Data Science Project (ADSP), RIKEN Information R&D and Strategy Headquarters, Yokohama, Japan, ⁴⁾Artificial Intelligence Medicine, Graduate School of Medicine, Chiba University, Chiba, Japan, ⁵⁾Division of Physiological Chemistry and Metabolism, Faculty of Pharmacy, Keio University, Tokyo, Japan, ⁶⁾Laboratory for Metabolomics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁷⁾Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁸⁾Laboratory for Evolutionary Cell Biology of the Skin, School of Bioscience and Biotechnology, Tokyo University of Technology, Hachioji, Japan

WS09-02-O/P Elucidation of the pathogenesis of spontaneous dermatitis in Foxp3 Bcl6 cDKO mice

○ Yuki Tai¹⁾, Shuhei Ogawa²⁾, Yohsuke Harada¹⁾

¹⁾Laboratory of Pharmaceutical Immunology, Faculty of Pharmaceutical Sciences, Tokyo University of Science, Chiba, Japan, ²⁾Division of Integrated Research, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

WS09-03-O/P	T cell-specific deletion of Pgam1, a glycolytic enzyme, ameliorates the symptoms of allergic contact dermatitis in mice Miyuki Omori-Miyake ¹⁾ , Masakatsu Yamashita ^{1,2)} Dept. of Infections and Host Defenses, Ehime University Graduate School of Medicine, Dept. of Immunology, Ehime University Graduate School of Medicine
W509-04-O/P	Decomposition of Atopic dermatitis skin RNA-seq data reveals diverse immune pathways in its pathogenesis Ayano Fukushima-Nomura ¹⁾ , Hiroshi Kawasaki ^{1, 2)} , Keiji Tanese ¹⁾ , Eiryo Kawakami ³⁾ , Masayuki Amagai ¹⁾ Department of Dermatology, Keio University School of Medicine, ²⁾ RIKEN Center for Integrative Medical Sciences, ³⁾ RIKEN Advanced Data
WS09-05-O/P	Inflammatory and pruritogenic actions of Oncostatin-M (OSM) in the pathogenesis of atopic dermatitis Tomohiro Miyai ^{1,2,3)} , Hiroshi Kawasaki ^{1,2,3)} , Sonoko Takahashi ⁴⁾ , Sotaro Ochiai ⁴⁾ , Takaharu Okada ⁴⁾ , Masayuki Amagai ^{2,5)} , Haruhiko Koseki ^{1,6)} Laboratory for Developmental Genetics, RIKEN IMS, Yokohama, Japan, Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, Development Theme for Atopic Dermatitis Therapeutics, RIKEN DMP, Yokohama, Japan, Laboratory for Tissue Dynamics, RIKEN IMS, Yokohama, Japan, Laboratory for Skin Homeostasis, RIKEN IMS, Yokohama, Japan, Department of Cellular and Molecular Medicine, Chiba University School of Medicine, Chiba, Japan
W509-06-O/P	Skin treatment with detergent induces dermatitis with H1 antihistamine-refractory itch and upregulates IL-4 and Th17/Th22 cytokine gene expression in C57BL/6 mice Seiji Kamijo¹¹, Yurie Masutani¹.²², Toru Kimitsu¹.²², Tomoko Yoshimura¹.²², Saori Ichikawa³¹, Takasuke Ogawa²¹, Mitsutoshi Tominaga⁴¹, Hajime Suto¹¹, Kenji Takamori⁴¹, Shigaku Ikeda¹.²², Ko Okumura¹¹, Toshiro Takai¹¹ ¹¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²¹Department of Allergology and Dermatology, Juntendo University Graduate School of Medicine, ³¹Department of Materials and Biological Sciences, Japan Women's University, ⁴¹Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine
WS09-07-O/P	Mead acid (5,8,11-eicosatrienoic acid) inhibits retinol-induced irritant contact dermatitis through PPARα-mediated pathway Azusa Saika¹¹, Prabha Tiwari¹.²², Takahiro Nagatake¹.³³, Koji Hosomi¹¹, Eri Node¹¹, Tetsuya Honda⁴¹, Kenji Kabashima⁵¹, Jun Kunisawa¹¹ ¹¹Laboratory of Vaccine Materials, Center for Vaccine and Adjuvant Research, and Laboratory of Gut Environmental System, Collaborative Research Center for Health and Medicine, National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), Ibaraki, Osaka, ²¹Laboratory for Transcriptome Technology, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, ³¹Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, Kawasaki, Kanagawa, ⁴¹Department of Dermatology, Hamamatsu University School of Medicine, Hamamatsu, Shizuoka, ⁵¹Department of Dermatology, Graduate School of Medicine, Kyoto University, Kyoto, Kyoto
WS09-08-O/P	DOCK2 is essential for MRGPRX2/B2-mediated mast cell degranulation and drug-induced anaphylaxis Kazufumi Kunimura, Yoshinori Fukui Division of Immunogenetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS09-09-O/P

Pollen shells promote allergic conjunctivitis through inducible goblet cell-associated antigen passage

O Meiko Kimura^{1,2,3)}, Tomoaki Ando¹⁾, Yasuharu Kume^{1,2,3)}, Saaya Fukase^{1,2,3)}, Moe Matsuzawa^{1,2,3)}, Kumi Izawa¹⁾, Ayako Kaitani¹⁾, Nobuhiro Nakano¹⁾, Ko Okumura¹⁾, Akira Murakami³⁾, Nobuyuki Ebihara^{2,3)}, Jiro Kitaura^{1,4)}

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine (Tokyo, Japan), ²⁾Department of Ophthalmology, Juntendo University Urayasu Hospital (Chiba, Japan), ³⁾Department of Ophthalmology, Juntendo University Graduate School of Medicine (Tokyo, Japan), ⁴⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine (Tokyo, Japan)

WS09-10-P

Analysis of lymphocyte differentiation and proliferation in NC/Nga mice

○ Hikaru Tsuzuki¹¹, Miyoko Matsushima¹¹, Ayumi Tajima¹¹, Moeko Ohara¹¹, Nodoka Shimasaki¹¹, Hinata Taniguchi¹¹, Hina Kawashima²¹, Sayaka Takagi²¹, Fuzuki Hayashi²¹, Nanami Yoshida²¹, Tsutomu Kawabe¹¹

¹⁾Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Aichi, Japan, ²⁾Department of Medical Technology, Nagoya University School of Health Sciences, Aichi, Japan

WS09-11-P	Chronic psychological stress exacerbates IgE-dependent chronic allergic inflammation by suppressing M2-macrophage-mediated efferocytosis
	○ Hitoshi Urakami¹¹, Yuki Fujita¹¹, Kei Nagao¹¹, Kensuke Miyake²¹, Hajime Karasuyama²¹, Sachiko Miyake³¹, Soichiro Yoshikawa¹¹.³¹
	¹⁾ Department of Cellular Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan, ²⁾ Inflammation, infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, ³⁾ Department of Immunology, Juntendo University School of Medicine, Tokyo, Japan
WS09-12-P	Treg transfer cures atopic skin disorders caused by a loss-of-function genetic CARD11 mutation
	○ Yuki Oyamada ¹⁾ , Yusuke Nomoto ^{1,2)} , Shinsuke Yasukawa ³⁾ , Daiji Sakata ¹⁾ , Ei'lchi lizasa ¹⁾ , Shohei Hori ⁴⁾ , Takuro Kanekura ²⁾ , Hiromitsu Hara ¹⁾
	¹⁾ Department of Immunology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, ²⁾ Department of Dermatology, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan, ³⁾ Department of Dermatology, Graduate School of Medical Sciences, Kyushu University, Fukuoka, Japan, ⁴⁾ Laboratory for Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan
WS09-13-P	Effects of Josamycin on Scratching Behavior in NC/Nga Mice with Atopic Dermatitis-Like Skin Lesion
	○ Katsuhiko Matsui Department of Clinical Immunology, Meiji Pharmaceutical University, Tokyo, Japan
WS09-14-P	Withdrawn
WS09-15-P	Modulation of proinflammatory responses by diazinon in mast cells
	○ Moeko Ohara ¹⁾ , Miyoko Matsushima ¹⁾ , Hina Kawashima ²⁾ , Hikaru Tsuzuki ¹⁾ , Nodoka Shimasaki ¹⁾ , Ayumi Tajima ¹⁾ , Hinata Taniguchi ¹⁾ , Sayaka Takagi ²⁾ , Fuzuki Hayashi ²⁾ , Nanami Yoshida ²⁾ , Tsutomu Kawabe ¹⁾
	¹⁾ Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Aichi, Japan, ²⁾ Department of Medical Technology, Nagoya University School of Health Sciences, Aichi, Japan
WS09-16-P	Salicylaldehyde ameliorates mouse anaphylaxis via suppression of IgE-mediated mast cell activation
	 Tsubasa Ashikari, Kazuki Nagata, Yuki Iizuka, Masakazu Hachisu, Chiharu Nishiyama Department of Biological Science an Technology, Tokyo University of Science, Tokyo, Japan
WS09-17-P	In vitro generation of IL-9-producing mucosal mast cells from bone marrow cells
	Nobuhiro Nakano, Jiro Kitaura, Hideoki Ogawa, Ko Okumura Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine
WS09-18-P	$\alpha\text{-glucosidase inhibitor acarbose suppresses mast cell degranulation and systemic anaphylaxis through}$
	the gut microbiota
	Kyosuke Yakabe ^{1, 2)} , Koji Hase ²⁾ , Yun-Gi Kim ¹⁾ **Research Center for Drug Discovery, Faculty of Pharmacy, Keio University, Tokyo, Japan, ²⁾ Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan

ADAR1 in bronchial epithelial cells is involved in the airway mucosal immune system in a mouse model of asthma

○ Ayae Tanaka¹⁾, Nobuhide Tsuruoka²⁾, Toshibumi Taniguchi³⁾, Masahiko Hatano⁴⁾, Takayoshi Owada⁵⁾, Hirokuni Hirata⁵⁾, Kazuhiro Kurasawa¹⁾, Masafumi Arima¹⁾

WS09-19-P

¹⁾ Department of Rheumatology, Dokkyo Medical University, School of Medicine, Tochigi, Japan, ²⁾Department of Reproductive Medicine, Graduate School of Medicine, Chiba University, Chiba, Japan, ³⁾Department of Infectious Diseases, Chiba University Hospital, Chiba, Japan, ⁴⁾Department of Biomedical Science (M14), Graduate School of Medicine, Chiba University, Chiba, Japan, ⁵⁾Department of Respiratory Medicine and Clinical Immunology, Dokkyo Medical University Saitama Medical Center, Saitama, Japan

WS09-20-P

The emerging role of periostin in NF- κ B-mediated inflammation with type 2 inflammation and itching in alleroic skin inflammation

○ Satoshi Nunomura¹⁾, Daisuke Uta²⁾, Isao Kitajima³⁾, Yasuhiro Nanri¹⁾, Kosuke Matsuda²⁾, Midori Kitajima³⁾, Naoko Ejiri³⁾, Yuko Honda¹⁾, Hironobu Takedomi¹⁾, Tsugunobu Andoh⁴⁾, Simon J Conway⁵⁾

¹⁾Division of Medical Biochemistry, Department of Biomolecular Sciences, Saga Medical School, ²⁾Department of Applied Pharmacology, Faculty of Pharmaceutical Sciences, University of Toyama, ³⁾Department of Clinical Laboratory and Molecular Pathology, Graduate School of Medical and Pharmaceutical Science, University of Toyama, ⁴⁾Department of Pharmacology and Pathophysiology, College of Pharmacy, Kinjo Gakuin University, ⁵⁾Herman B. Wells Center for Pediatric Research, Indiana University School of Medicine, Indianapolis

December 7

WS10 T cell function and diseases-1 (Disease models and SARS-CoV-2)

WS10-01-O/P

CD4* skin-resident memory T cells persist in CD68* cellular niches

Akihiko Murata, Momoka Wakazuki, Koji Tokoyoda

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WS10-02-O/P

A gain-of-function mutation of immunoreceptor DNAM-1 exacerbates CD4+ T cell-mediated autoimmune inflammation

○ Rikito Murata^{1,2)}, Shota Kinoshita^{1,2)}, Kenshiro Matsuda^{1,3)}, Atsushi Kawaguchi⁴⁾, Akira Shibuya^{1,3,5)}, Kazuko Shibuya^{1,5)}

¹⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, ²⁾Ph.D. Program in Human Biology, University of Tsukuba, ³⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, ⁴⁾Infection Biology, Faculty of Medicine, University of Tsukuba, ⁵R&D Center for Innovative Drug Discovery, University of Tsukuba

WS10-03-O/P

NRP1 marks a pathogenic self-reactive Th subset in autoimmune disease

○ Ben Raveney¹⁾, Shohei Hori²⁾, Wakiro Sato¹⁾, Takashi Yamamura¹⁾, Shinji Oki¹⁾

¹⁾Department of Immunology, National Institute of Neuroscience, NCNP, Kodaira, Tokyo, Japan, ²⁾Laboratory for Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, University of Tokyo, Japan

WS10-04-O/P

Role of $\gamma\delta$ T cells in antigen specific CD4 $^{+}$ T cell response to Plasmodium chabaudi infection

○ Yarob Ibraheem¹¹, Ganchimeg Bayarsaikhan¹¹, Maria Lourdes Macalinao²¹, Kazumi Kimura¹¹, Katsuyuki Yui¹¹,²,³, Shin-Ichi Inoue¹¹

¹⁾Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University, ²⁾School of Tropical Medicine and Global Health, Nagasaki University, ³⁾Institute of Tropical Medicine, Nagasaki University

WS10-05-O/P

Cytotoxic CD8* T cells simultaneously expressing GZMA, GZMB and Perforin regulate COVID-19 severity

○ Takuto Nogimori^{1,2)}, Koichiro Suzuki³⁾, Yuji Masuta¹⁾, Ayaka Washizaki^{1,2)}, Hidenori Kanda⁴⁾, Minoru Takada⁵⁾, Shohei Minami⁶⁾, Takeshi Kobayashi⁶⁾, Shokichi Takahama^{1,2)}, Yasuo Yoshioka^{3,7,8)}, Takuya Yamamoto^{1,2,6,9,10)}

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WS10-06-O/P

T cell responses induced by SARS-Cov-2 mRNA vaccination are associated with clonal replacement

○ Hiroyasu Aoki^{1,2)}, Masahiro Kitabatake³⁾, Shigeyuki Shichino¹⁾, Atsushi Hara³⁾, Noriko Ouji-Sageshima³⁾, Toshihiro Ito³⁾, Kouji Matsushima¹⁾, Satoshi Ueha¹⁾

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WS10-07-O/P

In vivo generation of designer APCs with mRNA regulates T cell immune responses

○ Tomoyoshi Yamano^{1,2)}, Shota Imai¹⁾, Toan Le¹⁾, Xiabing Lyu¹⁾, Rikinari Hanayama^{1,2)}

¹⁾Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, ²⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University

WS10-08-P	A novel authentic SARS-CoV-2-based assay for unveiling antiviral functions of vaccine-induced T cell immunity
	Mako Toyoda ^{1, 2)} , Chihiro Motozono ¹⁾ , Takamasa Ueno ^{1, 2)} ¹¹Division of Infection and Immunity, Joint Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, Japan, ²¹Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan
WS10-09-P	Analysis of immune responses to COVID-19 vaccine in liver transplant recipients
	Yuta Nagatsuka ^{1, 2)} , Takuto Nogimori ¹⁾ , Hirotomo Murakami ^{1, 2)} , Shogo Kobayashi ²⁾ , Yoshifumi Iwagami ²⁾ , Daisaku Yamada ²⁾ , Yoshito Tomimaru ²⁾ , Takehiro Noda ²⁾ , Hidenori Takahashi ²⁾ , Yuichiro Doki ²⁾ , Hidetoshi Eguchi ²⁾ , Takuya Yamamoto ^{1, 3, 4, 5, 6)} ¹⁾ Laboratory of Immunosenescence, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾ Department of Surgery, Osaka Rosai Hospital, Osaka, Japan, ³⁾ Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁴⁾ Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, ⁵⁾ Department of Virology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan
WS10-10-P	Structural basis of antigen recognition by distinct public TCRs recognizing an identical epitope conserved across SARS-CoV-2 variants
	Masamichi Nagae ^{1, 2)} , Shotaro Mori ^{1, 2)} , Taiki Ito ^{1, 2)} , Xiuyuan Lu ^{1, 2)} , Sho Yamasaki ^{1, 2)} Research Institute for Microbial Diseases, Osaka University, ²⁾ Immunology Frontier Research Center (IFReC), Osaka University
WS10-11-P	Vitamin C treatment promotes the persistence and immune responses of CD8 ⁺ T cells
	 Kenta Kondo, Tatsuya Hasegawa, Koji Terada, Yasutoshi Agata Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, Shiga, Japan
WS10-12-P	Induction of immunogical memory in mice administrated with OML-based vaccine
	○ Emi Onohara, Naoya Kojima Department of Applied Biochemistry, Tokai Uiversity
WS10-13-P	Revealing the mechanism of immune surveillance of T cells in the skin
	 Mami Ishibashi, Gyohei Egawa, Satoshi Nakamizo, Kenji Kabashima Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan
WS10-14-P	Development of a novel contact hypersensitivity model using humanized NOG-hIL-4 Tg mice Yusuke Ohno Central Institute for Experimental Animals
WS10-15-P	Activation of IL-1 signaling pathways induce a unique T cell subset, GM-CSF producing CD4+ T cells
	 Sho Ishigaki, Keiko Yoshimoto, Mitsuhiro Akiyama, Kotaro Matsumoto, Katsuya Suzuki, Yuko Kaneko Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan
WS10-16-P	Loss-of-function mutation in human PDLIM1 causes immunodeficiency by T cell exhaustion
	○ Takashi Tanaka ¹⁾ , Christoph Geier ^{2, 3, 4)} ¹⁾ Laboratory for Inflammatory Regulation, REKEN Center for Integrative Medical Sciences Yokohama, JAPAN, ²⁾ Immunology Outpatient Clinic, Vienna, Austria, ³⁾ Department of Rheumatology and Clinical Immunology, University Medical Center Freiburg, Freiburg, Germany, ⁴⁾ Center for Chronic Immunodeficiency (CCI), University Medical Center Freiburg, Freiburg, Germany
WS10-17-P	Themis in peripheral CD8 T cells regulates hapten-induced allergic skin inflammation
	 Masayuki Kitajima, Harumi Suzuki, Takayuki Okada Research Institute National Center for Global Health and Medicine, Dept. of Immunology and Pathology, Chiba, Japan
WS10-18-P	IL-7 regulates the expression of CD69 and CD103 on TRM cells in skin
	 Marii Ise, Taku Kuwabara, Yuriko Tanaka, Taku Naito, Motonari Kondo Department of Molecular Immunology, Faculty of Medicine, Toho University, Tokyo, Japan
WS10-19-P	Elevated expression of a novel immune checkpoint molecule, ILDR2 in inflammatory brain
	Ochenyang Zhang, Farzana Sultana, Shigenori Nagai, Miyuki Azuma Department of Molecular Immunology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU)

WS10-20-P	A selective PPAR α modulator-mediated metabolic manipulation ameliorates autoimmunity by limiting glutaminolysis in Th17 cells
	Satoshi Masuyama ¹⁾ , Masayuki Mizui ¹⁾ , Masashi Morita ²⁾ , Tatsusada Okuno ³⁾ , Yoshitaka Isaka ¹⁾ Department of Nephrology, Osaka University Graduate School of Medicine, Osaka, Japan, ²⁾ Department of Nephrology, National Hospital Organization Osaka Minami Medical Center, Osaka, Japan, ³⁾ Department of Neurology, Osaka University Graduate School of Medicine, Osaka, Japan
WS10-21-P	Mitochondrial cysteinyl-tRNA synthetase (CARS2)-dependent sulfur metabolism exacerbates experimental autoimmune encephalomyelitis in mice
	Kyoga Hiraide, Yuya Kitamura, Shunichi Tayama, Yuko Okuyama, Kosuke Sato, Hibiki Suzuki, Keita Koinuma, Takeshi Kawabe, Naoto Ishii Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Japan
WS10-22-P	In vitro generation of brain regulatory T cells by co-culturing with astrocytes
	Shinichi Yamamoto ^{1, 2)} , Akihiko Yoshimura ²⁾ , Minako Ito ³⁾ ¹⁾ Center for Immune Therapeutics and Diagnosis, Advanced Research Institute for Health Science, Juntendo University, ²⁾ Department of Microbiology and Immunology, Keio University School of Medicine, ³⁾ Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University
WS10-23-P	Clonally expanded CD8+ T cells in early phase of β-amyloid pathology in Alzheimer's disease model mouse
	Masaki Ohyagi ¹⁾ , Minako Ito ²⁾ , Akihiko Yoshimura ¹⁾ ¹⁾ Keio University School of Medicine, Tokyo, Japan, ²⁾ Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS10-24-P	Induction of Eomes-expressing Th cells via upregulation of type I interferon
	○ Tzu Wen Yeh¹¹, Chenyang Zhang¹¹, Ben Raveney¹¹, Fumio Takahashi¹¹, Marco Prinz²¹, Takashi Yamamura¹¹, Shinji Oki¹¹
	¹⁾ Department of Immunology, National Center of Neurology and Psychiatry, Tokyo, JP, ²⁾ Institute of Neuropathology, University of Freiburg, Freiburg, Germany
WS10-25-P	Analysis of Brain Immune Cells in Autism Spectrum Disorder Natsumi Awata, Ako Matsui, Yutaro Kobayashi, Minako Ito
Decembe	Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan 8
WS11 Tumo	or Immunotherapy
WS11-01-P	In vivo visualization of the immune responses of CAR-T cells against B cell lymphoma using an intravital
	imaging technique
	© Erika Yamashita ¹⁾ , Kaho Fujii ²⁾ , Raizo Yamamoto ²⁾ , Masaru Ishii ^{1, 2)} ¹⁾ Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University, ²⁾ Department of Immunology and Cell Biology, Graduate School of Frontier Bioscience, Osaka University
WS11-02-P	CD62L expression levels in the peripheral blood T cells predict the generation of antitumor T cell grafts with long-lived potential
	 Hitomi Kasuya, Yuki Kagoya Division of Immune Response, Aichi Cancer Center Research Institute, Nagoya, Japan
WS11-03-P	Antitumor efficacy of NR4a knock out HER2 CAR T-cell therapy for solid tumors
	 Kensuke Nakagawara¹, Makoto Ando², Tanakorn Srirat², Setsuko Mise-Omata², Mari Ikeda², Shunsuke Chikuma², Koichi Fukunaga¹, Akihiko Yoshimura² Division of Pulmonary Medicine, Department of Medicine, Keio University School of Medicine, Tokyo, Japan., Department of Microbiology
	and Immunology, Keio University School of Medicine, Shinjuku-ku, Tokyo, Japan
WS11-04-O/P	Exhaustion-resistant CAR-T cells by overexpressing dominant negative form of NR4A factors for the treatment of solid tumors
	○ Makoto Ando, Akihiko Yoshimura

 $\label{thm:constraint} \mbox{Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan}$

WS11-05-O/P	Development of CART cell therapy against T cell malignancies
	 Keisuke Watanabe¹, Carl June², Hiroyoshi Nishikawa¹ ¹National Cancer Research Center Research Institute Division of Cancer Immunology, Tokyo Japan, ²Center for Cellular Immunotherapies, Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA
W511-06-O/P	A novel chimeric cytokine receptor-engineered CAR-T cells achieve both potent cytotoxicity and reduced cytokine release syndrome Toshiaki Yoshikawa, Yuki Kagoya Aichi Cancer center, Aichi, Japan
WS11-07-O/P	Targeting poor prognosis acute myeloid leukemia with CD25-targeted chemokine receptor expressing CAR T cell therapy Ari Itoh-Nakadai ^{1, 2)} , Mariko Murasawa-Tomizawa ¹⁾ , Masashi Matsuda ³⁾ , Haruhiko Koseki ³⁾ , Fumihiko Ishikawa ¹⁾ Laboratory for Human Disease Models, IMS, Riken, Yokohama, Japan, ²⁾ Hygiene & public Health, Nippon Medical School, Tokyo, Japan, ³⁾ Developmental Genetics, IMS,RIKEN, Yokohama, Japan
WS11-08-P	Targeting patient-specific anti-apoptotic molecules combined with CXCR4 expressing CAR T-cells overcomes poor prognosis ALL Ryo Nakagawa ^{1, 2)} , Yoriko Saito ¹⁾ , Ari Itoh-Nakadai ¹⁾ , Shinsuke Takagi ³⁾ , Sadaaki Takata ⁴⁾ , Hanae Amitani ⁴⁾ , Mikiko Endo ⁴⁾ , Naoyuki Uchida ³⁾ , Yukihide Momozawa ⁴⁾ , Shuichi Taniguchi ³⁾ , Hideo Harigae ²⁾ , Fumihiko Ishikawa ¹⁾ ¹⁾ Laboratory for Human Disease Models, RIKEN IMS, Yokohama, Kanagawa, Japan., ²⁾ Department Hematology and Rheumatology, Tohoku Univ., Sendai, Miyagi, Japan., ³⁾ Department of Hematology, Toranomon Hospital, Tokyo, Japan., ⁴⁾ Laboratory for Genotyping Development, RIKEN IMS, Yokohama, Kanagawa, Japan
WS11-09-O/P	Engineering immune cell network with advanced split CAR system Atsushi Okuma ^{1, 2, 3)} Department of Biomedical Engineering, Boston University, ²⁾ Biological Design Center, Boston University, ³⁾ Current affiliation; Center for Exploratory Research, Hitachi, Ltd
WS11-10-O/P	Generation of genetically engineered TCR-T cells from self-renewing multipotent progenitor cells Tsukasa Shigehiro, Tomokatsu Ikawa Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan
WS11-11-O/P	Harnessing arginine metabolism to overcome hyperthermia-induced metabolic dysfunction of CAR T-cells Taisuke Kondo, Justyn Dusold, Naomi Taylor National Cancer Institute, National Institutes of Health, Maryland, USA
WS11-12-P	Tracing the fate of Nivolumab–PD-1 complex via proximity biotinylation enzyme AirlD Haruka Higashiyama, Tatsuya Sawasaki Proteo-Science Center (PROS), Ehime University, Ehime, Japan
WS11-13-P	Loss of tapasin confers the sensitivity to PD-1 blockade on lung cancer cells Keigo Moniwa ^{1,2)} , Serina Tokita ¹⁾ , Takayuki Kanaseki ¹⁾ , Toshihiko Torigoe ¹⁾ Department of Pathology, Sapporo Medical University, Sapporo, Japan, ²⁾ Department of Respiratory Medicine, Sapporo Medical University, Sapporo, Japan
W511-14-O/P	Aging-associated and CD4 T cell-dependent ectopic CXCL13 activation predisposes to anti-PD-1 therapy-induced adverse events Hirotake Tsukamoto ¹⁾ , Yoshihiro Komohara ²⁾ , Yusuke Tomita ³⁾ , Yuji Miura ²⁾ , Takanobu Motoshima ⁴⁾ , Kosuke Imamura ³⁾ , Toshiki Kimura ³⁾ , Yukio Fujiwara ²⁾ , Hiromu Yano ²⁾ , Tomomi Kamba ⁴⁾ , Takuro Sakagami ³⁾ , Hiroyuki Oshiumi ⁵⁾ Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicale, Kyoto University, Department of Cell Pathology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, Department of Urology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University, Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Sciences, Kumamoto University

WS11-15-P	Elucidation of immune response in murine models of pancreatic cancer receiving combination therapy of proton beam irradiation and anti-PD-L1 antibody
	Alessandro Nasti ¹⁾ , Yoshio Sakai ²⁾ , Tuyen Thuy Bich Ho ¹⁾ , Akihiro Seki ²⁾ , Shingo Inagaki ³⁾ , Norihiko Ogawa ³⁾ , Kyo Kume ⁴⁾ , Munetoshi Maeda ⁴⁾ , Hiroyasu Tamamura ⁵⁾ , Kazutaka Yamamoto ⁵⁾ , Makoto Sasaki ⁵⁾ , Shuichi Kaneko ^{1, 2)} ¹⁾ Information-Based Medicine Development, Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan., ²⁾ Department of Gastroenterology, Kanazawa University Hospital, Kanazawa, Japan., ³⁾ System biology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, Kanazawa, Japan., ⁴⁾ Proton Medical Research Division, Research & Development Department, The Wakasa Wan Energy Research Center, Tsuruga, Japan, ⁵⁾ Proton Therapy Center, Fukui Prefectural Hospital, Fukui, Japan
WS11-16-P	Exploration of predictive markers for the efficacy of immune checkpoint inhibitors in metastatic renal cell
	carcinoma
	 Ryuta Sobu, Soki Kashima, Mizuki Kobayashi, Ryohei Yamamoto, Taketoshi Nara, Kazuyuki Numakura, Mitsuru Saito, Shintaro Narita, Tomonori Habuchi Akita University Graduate School of Medicine, Department of Urology, Akita, Japan
WS11-17-P	Effects of immune checkpoint blockade in Immune Aging and its molecular mechanisms
	 ☐ Taeko Hayakawa, Akihiko Yoshimura Department of Microbiology and Immunology, Keio University School of Medicine
WS11-18-P	Chromatin remodeling complex curtails the efficacy of PD-1 blockade in anti-cancer drug-resistant tumor
	Masahiro Okada, Kanako Shimizu, Shin-Ichiro Fujii Laboratory for Immunotherapy, RIKEN Center for Integrative Medical Sciences
WS11-19-P	Immunological contribution in the development of lung cancer with pulmonary fibrosis
	Tatsuki Nishioka ¹⁾ , Masahiro Kitabatake ¹⁾ , Noriko Ouji-Sageshima ¹⁾ , Takehiro Sakabe ¹⁾ , Shigetp Hontsu ²⁾ , Shigeo Muro ²⁾ , Toshihiro Ito ¹⁾ Department of Immunology, Nara Medical University, Department of Respirology, Nara Medical University
WS11-20-O/P	A TGF-β milieu molecule on Tregs orchestrates cancer progression in the lung
W311-20-0/F	Qiao Gou, Hiroyuki Takaba, Hiroshi Takayanagi Department of Immunology, The University of Tokyo, Japan
WS11-21-P	Extrinsic and intrinsic inhibition of T cell response by co-inhibitory receptors, TIGIT and CD96
	 Ann Hattori, Ei Wakamatsu, Hiroaki Machiyama, Ryuji Hashimoto, Hiroko Toyota, Masae Furuhata, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka Tokyo Medical University
WS11-22-P	Immune response of B cells in tumor-draining lymph node
	Yasuhiro Kanda, Nanjun Li, Madoka Ozawa, Tomoya Katakai Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan
WS11-23-O/P	Clonal expanded IgG-producing plasma cells triggered by Tfh cells are associated with better survival in endometrial cancer
	Mayu Fujioka ¹⁾ , Shusei Fujioka ¹⁾ , Hiroyuki Yoshitomi ¹⁾ , Masayo Ukita ²⁾ , Haruka Suzuki ²⁾ , Junzo Hamanishi ²⁾ , Yasuhide Takeuchi ³⁾ , Sachiko Minamiguchi ³⁾ , Hiroaki Ito ³⁾ , Masaki Mandai ²⁾ , Hideki Ueno ¹⁾ Department of Immunology, Kyoto University, Kyoto, Japan, ²⁾ Department of Gynecology and Obstetrics, Kyoto University, Kyoto, Japan, ³⁾ Department of Diagnostic Pathology, Kyoto University, Kyoto, Japan
WS11-24-P	Essential conditions for tumor-specific cell death by anti-pan-HLA class II mAb, mAb 4713
	Takeshi Hirano ^{1, 2)} , Shuji Matsuoka ^{1, 3)} , Hideo Yagita ¹⁾ Department of Immunological Diagnosis, Graduate School of Medicine, Juntendo University, ²⁾ Department of Lactic Acid Bacteria Biological Function Reseach, Graduate School of Medicine, Juntendo University, ³⁾ Division of Cancer Immunotherapy, Exploratory Oncology Research and Clinical Trial Center, National Cancer Center
WS11-25-P	Lymphocytosis correlates with hyperleukocytosis and favorable survival in childhood acute myeloblastic leukemia: A complex pathogenetic role of lymphocytes
	Bambang Ardianto, Christine Christine, Inggar Armytasari, Rina Triasih, Sri Mulatsih, Eddy Supriyadi, Pudjo Hagung Widjajanto, Alexandra Widita Swipratami Pangarso, Ignatius Purwanto, Sutaryo Sutaryo Department of Child Health, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada/Dr. Sardjito General Hospital, Yogyakarta, Indonesia

WS11-26-P

Chimeric antigen receptor binding affinity required for targeting the intracellular oncoprotein PRAME

O Hiroyuki Hiratsuka, Yasushi Akahori, Hiroshi Shiku, Yoshihiro Miyahara, Hiroshi Fujiwara Department of Personalized Cancer Immunotherapy. Mie University graduate School of medicine

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WS12 Infection and Immunity II

WS12-01-P

SEPIVAC SWE™: an emulsion based adjuvant for prophylactic vaccines

○ Ko Sugahara, Célia Hérou, Hocine Nouari, Juliette Ben Arous SEPPIC SA, Paris La Défense, La Garenne Colombes France

WS12-02-P

Heterologous booster immunization with SARS-CoV-2 spike protein after mRNA vaccine elicits durable and broad antibody responses

○ Tomohiro Takano, Ryutaro Kotaki, Saya Moriyama, Yu Adachi, Taishi Onodera, Kazutaka Terahara, Masanori Isogawa, Takayuki Matsumura, Yoshimasa Takahashi

Research Center for Drug and Vaccine Development, National Institutes of Infectious Diseases

WS12-03-P

Profiling antibody and autoantibody signatures after SARS-CoV-2 infection or COVID-19 vaccination with high-density peptide microarrays

Kirsten Heiss¹⁾, Yuvaraj Mahendran¹⁾, Fiordiligie Casilag¹⁾, Renate Sekul¹⁾, Volker Stadler²⁾
¹⁾Research and Development, PEPperPRINT GmbH, Heidelberg, Germany, ²⁾Management, PEPperPRINT GmbH, Heidelberg, Germany

WS12-04-O/P

Delayed antigen-specific CD4+ T-cell induction correlates with lower antibody responses and fewer adverse effects to SARS-CoV-2 mRNA vaccination in older adults

O Norihide Jo^{1, 2)}, Yoko Hamazaki^{1, 3)}

¹⁾Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University, ²⁾Alliance Laboratory for Advanced Medical Research, Graduate school of Medicine, Kyoto University, ³⁾Laboratory of Immunobiology, Graduate school of Medicine, Kyoto University

WS12-05-P

Memory B-cell dynamics associated with evolution of SARS-CoV-2 neutralizing antibody

¹⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Japan, ²⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, Osaka University; Osaka, Japan

WS12-06-O/P

The underlying mechanism of the deterioration in obese patients with COVID-19

○ Tadashi Hosoya^{1, 2)}, Seiya Oba^{1, 2)}, Yoji Komiya^{1, 2)}, Daisuke Kawata¹⁾, Mari Kamiya¹⁾, Hideyuki Iwai^{1, 2)}, Sho Miyamoto²⁾, Takayuki Kanno²⁾, Akira Ainai²⁾, Tadaki Suzuki²⁾, Hideki Hasegawa³⁾, Shinsuke Yasuda¹⁾

¹⁾Department of Rheumatology, Tokyo Medical and Dental University, ²⁾Department of Pathology, National Institute of Infectious Diseases, ³⁾Center for Influenza and Respiratory Virus Research, National Institute of Infectious Diseases

WS12-07-O/P

Elevated Myl9 reflects the Myl9-containing microthrombi in SARS-CoV-2-induced lung exudative vasculitis and predicts COVID-19 severity

Chiaki Iwamura, Kiyoshi Hirahara, Masahiro Nemoto, Kaori Tsuji, Miki Onoue, Akane Kurosugi, Atsuhi Sasaki, Toshinori Nakayama

Chiba Univeristy

WS12-08-P

Analysis of $Fc\gamma$ receptor-mediated target-effector cells binding via influenza vaccine-induced antibodies in a non-human primate model

Yuji Masuta¹, Shokichi Takahama¹, Takuto Nogimori¹, Saya Moriyama², Yoshimasa Takahashi², Takuya Yamamoto^{1, 3, 4}

¹⁾Laboratory of Immunosenescence, Center for Vaccine and Adjuvant Research, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Tokyo, Japan, ³⁾Laboratory of Aging and Immune regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, ⁴⁾Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan

WS12-09-P	An inactivated whole particle H5N1 vaccine confers protective antibody responses for 5 years in cynomolgus monkeys
	 Misako Nakayama, Naoko Kitagawa, Hirohito Ishigaki, Thanh Cong Nguyen, Saori Suzuki, Hideaki Ishida, Kazumasa Ogasawara, Yasushi Itoh Department of Pathology, Shiga University of Medical Science - Otsu (Japan)
WS12-10-P	Characterization of mRNA contained lipid nanoparticle based liver-stage malaria vaccine
	Sayuri Nakamae ¹⁾ , Satoshi Miyagawa ^{1, 2)} , Koki Ogawa ³⁾ , Jiun-Yu Jian ¹⁾ , Mayumi Taniguchi ¹⁾ , Takeshi Annoura ⁴⁾ , Katsuyuki Yui ⁵⁾ , Kenji Hirayama ⁶⁾ , Shigeru Kawakami ³⁾ , Shusaku Mizukami ^{1, 6)} ¹⁾ Department of Immune Regulation, Shionogi Global Infectious Diseases Division, Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ²⁾ Laboratory for Drug Discovery and Disease Research, SHIONOGI & CO., LTD., Osaka, Japan, ³⁾ Department of Pharmaceutical Informatics, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, ⁴⁾ Department of Parasitology, National Institute of Infectious Diseases, Tokyo, Japan, ⁵⁾ Shionogi Global Infectious Diseases Division, Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ⁶⁾ School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan
WS12-11-P	What determines the survival fate upon lethal viral infection? -properties and dynamics of circulating
	immune cells-
	Riho Saito ¹⁾ , Tomohiko Okazaki ²⁾ Laboratory of Molecular Biology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ²⁾ Laboratory of Molecular Cell Biology, Institute for Genetic Medicine, Hokkaido University
WS12-12-O/P	The Vi capsular polysaccharide of <i>Salmonella</i> Typhi promotes macrophage phagocytosis by binding the human C-type lectin DC-SIGN
	Hirotaka Hiyoshi ^{1, 2)} , Lillian F. Zhang ²⁾ , Andreas J. Bäumler ²⁾ Institute of Tropical Medicine, Nagasaki University, ²⁾ University of California at Davis
WS12-13-P	Translocation of prohibitin 2 in macrophages is inhibited by mycobacterial protein PE_PGRS30 resulting
	in mitochondrial dysfunction and apoptosis
	 Kazunori Matsumura, Satoshi Takaki Department of Immune Regulation, The Research Center for Hepatitis and Immunology, Research Institute, National Center for Global Health and Medicine, Ichikawa, Chiba, Japan
WS12-14-P	Effect of Zmp1-deficient BCG vaccination in protective immunity to pulmonary tuberculosis
	O Masayuki Umemura ^{1,2,3)} , Masayori Yoshisato ^{1,2)} , Ryusei Shimotada ^{1,2)} , Julia Toguchi ^{1,2)} , Giichi Takaesu ^{1,2,3)} , Goro Matsuzaki ^{1,2,3)}
	¹⁾ Tropical Biosphere Research Center, University of the Ryukyus, Okinawa, Japan, ²⁾ Department of Host Defense, Graduate School of Medicine, University of the Ryukyus, Okinawa, Japan, ³⁾ Advanced Medical Research Center, Faculty of Medicine, University of the Ryukyus, Okinawa, Japan
WS12-15-P	Immunological analysis of periodontal disease-induced cognitive disorders in mice
	Sari Kishikawa ¹ , Jun-Ichi Nagao ^{1,2} , Kenji Toyonaga ¹ , Emi Kaji ¹ , Kanae Negoro-Yasumatsu ¹ , Sonoko Tasaki ¹ , Yoshihiko Tanaka ^{1,2}
	¹⁾ Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, Fukuoka, Japan, ²⁾ Oral Medicine Research Center, Fukuoka Dental College, Fukuoka, Japan
WS12-16-O/P	The C-type lectin receptor Dcir1 counterbalances the antifungal response against Aspergillus fumigatus infection
	○ Fabio Yoshikawa, Shinobu SaijoMedical Mycology Research Center, Chiba University, Chiba, Japan
WS12-17-P	Modulation of host immune response by extracellular vesicles from parasitic nematode, <i>Trichinella</i> spiralis
	Sukhonthip Khueangchiangkhwang, Zhiliang Wu, Yoichi Maekawa Department of Parasitology and Infectious Diseases, Gifu University Graduate School of Medicine
WS12-18-O/P	Transcriptomic analysis of the olfactory bulb during experimental cerebral malaria (ECM)
	Julia Matsuo-Dapaah ^{1, 2)} , Michelle Sue Jann Lee ^{1, 3)} , Cevayir Coban ^{1, 2, 3)} ¹⁾ Division of Malaria Immunology, Institute of Medical Science (IMSUT), University of Tokyo, ²⁾ Graduate School of Medicine, University of Tokyo, ³⁾ International Vaccine Design Center, Institute of Medical Science (IMSUT), University of Tokyo

WS12-19-P	Induction of Anisakis-specific IgE dependent on commensal bacteria in stomach during gastric Anisakis infection
	Chikako Shimokawa ¹⁾ , Tadashi Takeuchi ²⁾ , Tamotsu Kato ²⁾ , Hiromu Sugiyama ¹⁾ , Hiroshi Ohno ²⁾ , Hajime Hisaeda ¹⁾ 1)Department of Parasitology, National Institute of Infectious Diseases, ²⁾ Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences
WS12-20-O/P	Identification of leukocyte immunoglobulin-like receptor A1 (LILRA1) as a specific receptor for Aspergillus fumigatus conidia
	 Yasunobu Miyake, Hiroki Yoshida Division of Molecular and Cellular Immunoscience, Department of Biomolecular Sciences, Faculty of Medicine, Saga University
WS12-21-P	Theilovirus 3C protease cleaves innate immune sensor MDA5 to inhibit double-stranded RNA recognition Akihiko Komuro ¹⁾ , Masahiko Miyamoto ¹⁾ , Toshiki Himeda ²⁾ , Takako Okuwa ²⁾ , Masaaki Nameta ³⁾ , Yutaka Yoshida ³⁾ , Benyapa Chunhaphinyokul ¹⁾ , Nobuyuki Tanaka ⁴⁾ , Masaya Higuchi ²⁾ Faculty of Pharmaceutical Sciences, Niigata University of Pharmacy and Applied Life Sciences, Niigata/Japan, ²⁾ Kanazawa Medical University School of Medicine, Ishikawa, Japan, ³⁾ Niigata University, ⁴⁾ Division of Tumor Immunology, Miyagi Cancer Center Research Institute, Miyagi/Japan
WS12-22-P	Riplet-mediated polyubiquitination of LGP2 modulate RIG-I activities to avoid excessive cytokine expression during viral infection Takahisa Kouwaki, Hiroyuki Oshiumi Department of immunology, Graduate school of Medical Sciences, Kumamoto University
WS12-23-O/P	Antiviral innate immune responses are regulated by a lipid metabolism via expression of unusual type I IFN subtypes Transfer Michigana Telephica (Comparis Microsoft) Alicentals (Comparis Michigana)
	 Tasuku Nishimura, Takahisa Kouwaki, Hiroyuki Oshiumi Department of Immunology, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan
WS12-24-P	Seeking an immunotherapy target for treating antimicrobial-resistant <i>Staphylococcus aureus</i> Infection Kei Sakamoto ¹⁾ , Yuko Tanishita ²⁾ , Akito Ariyoshi ¹⁾ , Daisuke Sasaki ¹⁾ , Katsunori Yanagihara ¹⁾ , Gabriel Nuñez ³⁾ , Hideki Hara ^{2, 4)} Department of Laboratory Medicine, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan, Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan, Department of Pathology and Rogal Cancer Center, University of Michigan Medical School, MI, USA, Department of Microbiology and Immunochemistry, Asahikawa Medical University, Asahikawa, Japan
WS12-25-P	Physiological relevance of TRAF6 signaling in dendritic cells in controlling <i>C. rodentium</i> infection Thanyakorn Chalalai ¹⁾ , Naganori Kamiyama ¹⁾ , Shimpei Ariki ¹⁾ , Sotaro Ozaka ¹⁾ , Nozomi Sachi ¹⁾ , Yomei Kagoshima ¹⁾ ,
	Ryu Okumura ²⁾ , Kiyoshi Takeda ²⁾ , Takashi Kobayashi ¹⁾ ¹⁾ Department of Infectious Disease Control, Faculty of Medicine, Oita University, Oita, Japan, ²⁾ Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Suita, Osaka, Japan
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WS13 B cell	Development and Activation
WS13-01-O/P	Transcriptional signature of anergy in naturally occurring self-reactive B cells Ryosuke Hiwa ^{1, 2)} , John P. Huizar ²⁾ , James L. Mueller ²⁾ , Julie Zikherman ²⁾ Department of Rheumatology and Clinical Immunology, Kyoto University Hospital, Kyoto, Japan, Division of Rheumatology, Rosalind Russell and Ephraim P. Engleman Arthritis Research Center, Department of Medicine, UCSF, San Francisco, CA, USA
WS13-02-P	Augmentation of auto-antibody production in Parm1-deficient NZB mice Sayaka Fukushima ¹⁾ , Mizuki Ishikawa ¹⁾ , Kagefumi Todo ²⁾ , Haruka Honda ¹⁾ , Masaki Hikida ¹⁾ Graduate School of Engineering Science, Akita University, Department of Health and Nutrition, Tokiwa University
WS13-03-O/P	Immunological functions of Castor1 in B cells Takeshi Kusuda ¹⁾ , Toshihiko Komai ¹⁾ , Tomohisa Okamura ^{1,2)} , Keishi Fujio ¹⁾ Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ²⁾ Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo

WS13-04-O/P	The COMMD3/8 complex is a potential therapeutic target for autoimmune diseases
	Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)} Taiichiro Shirai ¹⁾ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai ^{1, 2, 3} Taiichiro Shirai ¹ , Akiko Nakai
WS13-05-O/P	IL-15-producing splenic B cells play pathogenic roles in the development of autoimmune hepatitis Sota Fujimori ^{1, 2)} , Nobuhiro Nakamoto ¹⁾ , Takanori Kanai ¹⁾ Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, ²⁾ Research Unit Immunology & Inflammation, Innovative Research Division, Mitsubishi Tanabe Pharma Corporation
WS13-06-O/P	Essential function for EMC1(ER membrane complex subunit1) in Ca ²⁺ influx and B cell development
	C Kazuhiko Kawata ¹⁾ , Chie Kikutake ²⁾ , Mikita Suyama ²⁾ , Yoshihiro Baba ¹⁾ Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, Division of Bioinformatics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS13-07-O/P	miR-195 accomplishes B cell development without EBF1 by regulating transcription factors
	○ Yuji Miyatake¹¹, Tomokatsu Ikawa²¹, Ken-Ichi Hirano³¹, Katsuto Hozumi³¹, Kiyoshi Ando⁴¹, Hiroshi Kawamoto⁵¹, Ai Kotani¹¹
	¹⁾ Department of Advanced Medical Science, Tokai University School of Medicine, Isehara, Japan, ²⁾ RIKEN Research Center for Allergy and Immunology, Yokohama, Japan, ³⁾ Department of Immunology, Tokai University School of Medicine, Isehara, Japan, ⁴⁾ Department of Hematology, Tokai University School of Medicine, Isehara, Japan, ⁵⁾ Department of Immunology, Institute for Frontier Life and Medical Science, Kyoto University, Kyoto, Japan
WS13-08-P	bHLH transcription factor E2A and Ets-related gene Erg synergistically orchestrates B cell signature gene expression through the regulation of enhancer activity
	 Reiko Hidaka, Kazuko Miyazaki, Hiroshi Kawamoto, Masaki Miyazaki Kyoto University, Institute for Life and Medical Sciences, Department of Immunology
WS13-09-P	A novel subpopulation of B1 B cells whose secretion of natural antibodies is suppressed by complexin 2
	Emi Tsuru ¹⁾ , Hiroki Mogawa ²⁾ , Masaaki Mizobuchi ²⁾ , Masayuki Tsuda ¹⁾ ¹⁾ Institute for Laboratory Animal Research, Science Research Center, Kochi University, Kochi, Japan, ²⁾ Equipment Support Planning Office, Kochi University, Kochi, Japan
WS13-10-O/P	The mechanism for T cell-independent B cell activation by the bacterial polysaccharide dexstran
	Yuming Huang ^{1, 2)} , Kana Matsumura ¹⁾ , Nazim Medzhidov ¹⁾ , Toshitaro Takata ¹⁾ , Miao Tang ¹⁾ , Takeshi Tsubata ²⁾ ¹⁾ Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University., ²⁾ Department of Pathology, Nihon University School of Dentistry
WS13-11-O/P	The importance of IL-1 - IL-1 receptor signaling to T-cell-independent type 2 responses
	 Mari Tenno, Tang Xuyang, Takumi Umezu, Daisuke Kitamura Division of Cancer Cell Biology, Research Institute for Biomedical Sciences (RIBS) Tokyo University of Science
WS13-12-P	DNase γ is required for T cell-independent type II immune response
	 Kei Kato¹⁾, Kei Haniuda²⁾, Saori Fukao³⁾, Daisuke Kitamura¹⁾ ¹⁾Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan, ²⁾Department of Immunology, University of Toronto, Toronto, Canada, ³⁾Princess Margaret Cancer Centre, University Health Network, Toronto, Canada
WS13-13-O/P	Adjuvant Activity of Chemically Synthesized Alcaligenes Lipid A to Augment Immune Responses against
	Haemophilus Influenzae Type B Conjugate Vaccine
	○ Zilai Liu ^{1,2)} , Koji Hosomi ¹⁾ , Atsushi Shimoyama ²⁾ , Ken Yoshii ^{1,2)} , Xiao Sun ^{1,2)} , Haruki Yamaura ²⁾ , Davie Kenneth ²⁾ , Azusa Saika ¹⁾ , Takahiro Nagatake ^{1,3)} , Hiroshi Kiyono ^{4,5,6)} , Koichi Fukase ²⁾ , Jun Kunisawa ^{1,2,4,7,8)} ¹⁾ National Institutes of Biomedical Innovation, Health, and Nutrition, Osaka, Japan, ²⁾ Osaka University, Osaka, Japan, ³⁾ Meiji University, Tokyo,
	Japan, ⁴ The University of Tokyo, Tokyo, Japan, ⁵ University of California San Diego, California, United States, ⁶ Chiba University, Chiba, Japan, ⁷ Kobe University, Hyōgo, Japan, ⁸ Waseda University, Tokyo, Japan
WS13-14-O/P	Recombinant anti-RP105 provides an adjuvant effect for gene immunization against influenza
	🔾 Tatsuya Yamazaki, Mrityunjoy Biswas, Masanori Inui, Susumu Tomono, Sachiko Akashi-Takamura

Department of Microbiology and Immunology, Aichi Medical University, School of Medicine, Aichi, Japan

WS13-15-P	B cell antigen receptors expressed on embryo-derived innate-like B cells
	Yuhei Mizunoe ¹⁾ , Aika Otaki ¹⁾ , Keiko Fujisaki ¹⁾ , Shogo Okazaki ²⁾ , Ryo Goitsuka ¹⁾ ¹⁾ Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾ Department of Microbiology, Nihon University School of Dentistry
WS13-16-P	Single-cell RNA-sequencing of the synovial cells in gp130F759, a murine rheumatoid arthritis model, revealed changes in B-cell repertoire at the transitional phase from innate to acquired immunity Katsuhiko Ishihara ¹ , Ayano Yahagi ² , Masanori Iseki ³ Department of Design for Medical and Health Care, Kawasaki University of Medical Welfare, Microanatomy and Developmental Biology, Tokyo Women's Medical University, Department of Immunology and Molecular Genetics, Kawasaki Medical School
WS13-17-O/P	Evaluation of immune response induced by influenza vaccines using the repertoire analysis of variable genes of antibodies Hinako Ohkusa ¹⁾ , Mizuki Uryu ¹⁾ , Shinichi Fujihara ¹⁾ , Kayoko Sato ²⁾ , Hideki Asanuma ³⁾ , Makoto Tsuiji ¹⁾ Department of Microbiology, Hoshi University School of Pharmacy and Pharmaceutical Sciences, Tokyo, Japan., ²⁾ Department of Virology 3, National Institute of Infectious Diseases, Tokyo, ³⁾ Center for Influenza and Respiratory Virus Research, National Institute of Infectious Diseases, Tokyo, Japan
WS13-18-P	Characterization of VHHs from unique semi-synthetic alpaca VHH phage display library Narutoshi Tsukahara ^{1, 2)} , Akikazu Murakami ^{2, 3)} , Hidehiro Kishimoto ¹⁾ Department of Immunology & Parasitology, Graduate School of Medicine, University of the Ryukyus, Okinawa, Japan, ²⁾ RePHAGEN Co., Ltd., Okinawa, Japan, ³⁾ Department of Oral Microbiology, Graduate School of Biomedical Sciences, Tokushima University, Tokushima, Japan
WS13-19-P	The analysis of anti-apoptotic effect in B cells by anti-RP105 mAb or TLR ligands Sajid Iftekhar Chowdhury, Sachiko Akashi-Takamura Department of Microbiology and Immunology, Aichi Medical University
Decembei	r 8
WS14 Innat	te immunity (1) Innate inflammation and disease
WS14-01-P	The complement receptor C5aR may control regulatory T cells via activation of dendritic cells in head and neck squamous cell carcinoma Masaki Imai, Sayuri Yamazaki Department of Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan
WS14-02-P	Fusobacterium nucleatum infection activates the non-canonical inflammasome pathway to exacerbate inflammatory response in acute colitis mice Kotchakorn Boonyaleka, Tokuju Okano, Toshihiko Suzuki Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University
WS14-03-O/P	HMGB1 in cancer and inflammatory diseases Hideyuki Yanai Research Center for Advanced Science and Technology, The University of Tokyo
WS14-04-P	Heat acclimation ameliorated heat stress-induced acute kidney injury by preserving the number of resident macrophages in mice
	Hiroyasu Goto ¹⁾ , Hiroyuki Nakashima ²⁾ , Seigo Ito ³⁾ , Kazuma Mori ²⁾ , Keiko Tanoue ¹⁾ , Azusa Kato ²⁾ , Masahiro Nakashima ²⁾ , Naoki Oshima ¹⁾ , Manabu Kinoshita ²⁾ ¹⁾ Department of Nephrology and Endocrinology, National Defense Medical College, Saitama, Japan, ²⁾ Department of Immunology and Microbiology, National Defense Medical College, Saitama, Japan, ³⁾ Department of Internal Medicine, Self-Defense Force Iruma Hospital, Saitama, Japan
WS14-05-P	Optimal design of the plastic hollow microneedle: enable accurate dosing and Th1 response under intradermal HBsAg vaccination Natsumi Koike ¹⁾ , Shintaro Onishi ¹⁾ , Takatoshi Niitsu ²⁾ , Tomoya Nishimura ²⁾ , Shingo Kakuo ¹⁾ , Takehiko Toujou ²⁾ ,

¹⁾Biological Science Research, Kao Corporation, Tochigi, Japan, ²⁾Processing Development Research, Kao Corporation, Tochigi, Japan

WS14-06-O/P	Short-term epigenetic memory in monocytes induced by BNT162b2 mRNA vaccine
	 Yuta Yamaguchi, Yasuhiro Kato, Atsushi Kumanogoh Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine, Suita, Japan
WS14-07-P	Circulating neutralizing IgM regulated by IL-13 protects against disseminated infection by <i>Streptococcus pneumoniae</i> : comparative evaluation to organ-specific T1 response
	Natsuo Yamamoto ¹⁾ , Tsuyoshi Suzuki ²⁾ , Rie Zenda ²⁾ , Kiwamu Nakamura ¹⁾ , Ken Iseki ²⁾ , Keiji Kanemitsu ¹⁾ ,
	Philip Askenase ³⁾
	¹⁾ Department of infection control, Fukushima Medical University, ²⁾ Department of emergency and critical care medicine, Fukushima Medical University, ³⁾ Sect. Allerg. Immunol. Sch. of Med. Yale Univ.
WS14-08-P	Altered interaction between monocytes and platelets in preeclampsia
	 Mikako Nagashima, Yuji Takeda, Shinichi Saito, Saima Sabrina, Akemi Araki, Hironobu Asao Department of Immunology, Yamagata University School of Medicine, Yamagata, Japan
WS14-09-O/P	Molecular mechanisms by which mTORC1 drives granulomas
	Ryosuke Hiranuma, Ryota Sato, Kensuke Miyake
	Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo
WS14-10-P	1'-Acetoxychavicol acetate protects against LPS-induced lung injury and acetaminophen-induced acute liver injury
	O Daisuke Ori, Guang Han Ong, Candra Trinugraha Afi, Taro Kawai
	Division of Biological Science, Graduate School of Science and Technology, Nara Institute of Science and Technology, Ikoma, Japan
WS14-11-O/P	Impact of changes of the gut microbiota on the development of liver inflammation and fibrosis in a novel dietary mouse model of non-alcoholic steatohepatitis, "3-F mice"
	Caichi Kasai ¹⁾ , Yukihiro Furusawa ¹⁾ , Yuki Tada ¹⁾ , Naoya Igarashi ¹⁾ , Koichi Tsuneyama ²⁾ , Yoshinori Nagai ¹⁾ Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²⁾ Department of Pathology and Laboratory Medicine, Tokushima University Graduate School
WS14-12-P	Amelioration of inflammatory innate immune responses by a high-molecular weight sulfated polysaccharide Fucoidan
	Yoshiyuki Miyazaki ^{1, 2)} , Toshiya Satoyama ¹⁾ , Hayato Nakano ³⁾ , Shugo Takeuchi ⁴⁾ , Hideaki Takeuchi ⁵⁾ , Daisuke Tachikawa ^{2, 6)}
	¹⁾ Faculty of Agriculture, Kyushu University, Fukuoka, Japan, ²⁾ NPO Research Institute of Fucoidan, Fukuoka, Japan, ³⁾ Ventuno Co., LTD., Fukuoka, Japan, ⁴⁾ Kaisou-science no kai Co., LTD., Tokyo, Japan, ⁵⁾ Kamerycah Inc., CA, United States, ⁶⁾ Wakamiya Hospital, Oita, Japan
WS14-13-O/P	Direct activation of microglia by β -glucosylceramide causes phagoptosis of neurons that aggravates
	Gaucher disease
	Takashi Shimizu ^{1, 2)} , Charles Schutt ¹⁾ , Sho Yamasaki ^{1, 2)} Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²⁾ Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Osaka, Japan
WS14-14-O/P	Novel lipid metabolism prevents inflammation for neural repair after ischemic stroke
	○ Akari Nakamura ^{1, 2)} , Seiichiro Sakai ²⁾ , Makoto Murakami ³⁾ , Takashi Shichita ²⁾
	¹⁾ Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan, ²⁾ Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, ³⁾ Laboratory of Microenvironmental and Metabolic Health Science, Center for Disease Biology and Integrative Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
WS14-15-O/P	Modeling bleomycin-induced lung injury using primary murine cell-derived lung organoids
	O Bin Wu, Shigeyuki Shichino, Satoshi Ueha, Kouji Matsushima Division of molecular regulation of inflammatory and immune diseases, Institution of Biomedical Research, Tokyo University of Science
WS14-16-P	Direct effects of monosodium urate crystal on human endothelial cells in hyperuricemia
	Motokazu Tsuneto ¹⁾ , Yuka Katsukura ²⁾ , Naruomi Yamada ²⁾ , Akika Fukawa ²⁾ , Ichiro Hisatome ¹⁾ Division of regenerative medicine and therapeutics, Department of medicine, Tottori university, ²⁾ Food Microbiology and Function Research
	Division of regenerative medicine and therapeuties, Department of incursing, follow university, if you when you all Function nested of

Laboratories, R&D Division, Meiji Co., Ltd.

WS14-17-P	Inflammasome Activation is Regulated by Fever stress-dependent Integrity of Centrosome
	Riku Saito ¹⁾ , Hideki Hara ^{1, 2)} , Akihiko Yoshimura ¹⁾ Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan, ²⁾ Department of Microbiology and Immunochemistry, Asahikawa Medical University, Hokkaido, Japan
WS14-18-P	Analysis of metabolic reprogramming in macrophages utilizing genome-wide CRISPR screening
	Shota Yasukura ¹ , Masanori Yoshinaga ¹ , Michael C Bassik ² , Osamu Takeuchi ¹ ¹ Department of Medical Chemistry, Kyoto University Graduate School of Medicine, Kyoto, Japan, ² Department of Genetics, Bassik Lab, Stanford University School of Medicine, Stanford CA, USA
December	8
WS15 Autoir	nmune diseases -Systemic-
WS15-01-O/P	SLE stratification based on BAFF and IFN-I bioactivity for biologics and implications of BAFF produced by glomeruli in lupus nephritis
	 Eri Itotagawa, Takehiro Hirayama, Tatsunori Jo, Kohei Tsujimoto, Yasuhiro Kato, Hyota Takamatsu, Atsushi Kumanogoh Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Japan
WS15-02-O/P	Transforming growth factor-63 in the differentiation and function of T peripheral helper cells and its
W313-U2-U/P	relationship to disease activity in patients with systemic lupus erythematosus Yu Shan
	The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan, Kitakyushu, Japan
WS15-03-O/P	DOCK8-expressing T follicular helper cells newly generated beyond self-organized criticality cause systemic lupus erythematosus (SLE)
	○ Shunichi Shiozawa ^{1, 2, 3)} , Ken Tsumiyama ^{1, 2, 3)} , Yumi Miyazaki ^{1, 2)} , Kenichi Uto ²⁾ , Keiichi Sakurai ^{1, 3)} , Takahiko Horiuchi ¹⁾ , Tsukasa Matsubara ^{3, 3)} , Takashi Yamane ⁴⁾ , Yohei Mukai ⁵⁾ , Takuji Enya ⁶⁾ , Masaaki Miyazawa ⁶⁾ , Kazuko Shiozawa ⁷⁾
	¹⁾ Kyushu University Beppu Hospital, Beppu, Japan, ²⁾ Kobe University, Kobe, Japan, ³⁾ Institute for Rheumatic Diseases, Kato-shi, Japan, ⁴⁾ Kakogawa Central City Hospital, Kakogawa, Japan, ⁵⁾ KAN Research Institute, Inc., Kobe, Japan, ⁶⁾ Department of Immunology, Kindai University, Osaka-Sayama, Osaka, Japan, ⁷⁾ Hyogo Prefectural Kakogawa Medical Center, Kakogawa, Japan
WS15-04-O/P	Vorinostat ameliorates the onset and severity of SLE prone mice by inhibiting IFN-I production
	Takehiro Hirayama ^{1, 2)} , Daiki Nagira ³⁾ , Hachiro Konaka ⁴⁾ , Hyota Takamatsu ^{1, 2)} , Atsushi Kumanogoh ^{1, 2, 5, 6)} The partment of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Department of Immunopathology, WPI, Immunology Frontier Research Center (iFReC), Osaka University, Graduate School of Medicine, Osaka University, Department of internal medicine, Nippon life Hospital, Center for Infectious Disease Education and Research (CiDER), Osaka University, Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives
WS15-05-O/P	Pathogenic neuropsychiatric effect of stress-induced microglial interleukin 12/23 axis in SLE
	Yuki Tanaka ^{1,2,3)} , Nobuya Abe ^{1,4)} , Masato Tarumi ^{1,4)} , Rie Hasebe ^{1,2,3)} , Tatsuya Atsumi ⁴⁾ , Masaaki Murakami ^{1,2,3)} ¹⁾ Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²⁾ National Institutes for Quantum and Radiological Science and Technology, Quantum Immunology, ³⁾ Division of Molecular Neuroimmunoloy, Department of Homeostatic Regulation, National Institute for Physiological Sciences, National Institutes of Natural Sciences, ⁴⁾ Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan
WS15-06-O/P	CD153 ⁺ CD4 ⁺ T cells exacerbate the autoimmune pathology via the interaction with CD30 ⁺ cells in salivary
	glands in Sjögren's syndrome
	 Kunihiro Otsuka^{1, 2)}, Hiroyuki Kondo¹⁾, Shin-Ichi Tsukumo¹⁾, Rieko Arakaki²⁾, Mami Sato²⁾, Hideo Yagita³⁾, Naozumi Ishimaru²⁾, Koji Yasutomo¹⁾ ¹⁾Department of Immunology and Parasitology, Tokushima University Graduate School of Medicine, ²⁾Department of Oral Molecular Pathology, Tokushima University Graduate School of Medicine, ³⁾Department of Immunology, Juntendo University School of Medicine

Role of Mucin 19 in Pathogenesis of a Mouse Model for Sjögren's Syndrome

WS15-07-O/P

Yuki Kawahito, Kai Tamura, Mami Sato, Kunihiro Otsuka, Takaaki Tsunematsu, Naozumi Ishimaru Department of Oral Molecular Pathology, Tokushima University School of Dentistry, Tokushima, Japan

WS15-08-O/P	Synovial phenotyping in Japanese RA patients using ultrasound-guided needle biopsy Risa Yoshihara ¹⁾ , Haruka Tsuchiya ¹⁾ , Yasunori Omata ²⁾ , Haruka Takahashi ¹⁾ , Akihiro Uchio ²⁾ , Yuji Maenohara ²⁾ , Takumi Matsumoto ²⁾ , Hiroaki Harada ¹⁾ , Hirofumi Shoda ¹⁾ , Sakae Tanaka ²⁾ , Tomohisa Okamura ³⁾ , Keishi Fujio ¹⁾ Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²⁾ Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³⁾ Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
WS15-09-O/P	Differential TCR repertoire for joint self-antigens determines the functional balance between the
	regulatory T and arthritogenic T cells in T cell-mediated autoimmune arthritis Yusuke Takeuchi ^{1, 2)} , Daiya Ohara ¹⁾ , Hitomi Watanabe ¹⁾ , Gen Kondoh ¹⁾ , Akio Morinobu ²⁾ , Keiji Hirota ¹⁾ Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan, ²⁾ Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan
WS15-10-P	Pathophysiological analysis of arthritis in Inter alpha trypsin inhibitor heavy chain 4 (ITIH4)-deficient mice
	 Tamaki Iwai, Ayako Ohyama, Taihei Nishiyama, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto Department of Rheumatology, Faculty of Medicine, University of Tsukuba
WS15-11-P	Pathogenetic role of IFN γ producing T cells in lupus model mice induced by Toll-like receptor 7 agonist imiquimod
	Reona Tanimura, Yuya Kondo, Masaru Shimizu, Ryota Sato, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto Department of Rheumatology, Faculty of Medicine, University of Tsukuba
WS15-12-P	The analysis of immunological features of plasma cells in SLE model mice, MRL/lpr
	○ Emi Minegishi ¹⁾ , Yuki Tanaka ¹⁾ , Keiko Yoshimoto ²⁾ , Yumi Ikeda ²⁾ , Kotaro Otomo ²⁾ , Katsuya Suzuki ²⁾ ,
	Tsutomu Takeuchi ²⁾ , Yuko Kaneko ²⁾ ¹⁾ Keio University School of Medicine, ²⁾ Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine
WS15-13-P	The analysis of immunological features of regulatory T cells in MRL/lpr, a mouse model of SLE
	○ Yuki Tanaka Keio University School of Medicine, Tokyo, Japan
WS15-14-P	IL-21 receptor induced via glycolysis in naïve B cells and its potential as a trigger for exacerbation of disease activity in SLE
	¹⁾ The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan, ²⁾ Department of Clinical Nursing, University of Occupational and Environmental Health, Japan
WS15-15-P	Analysis of patrolling monocytes that induce lupus nephritis
	○ Reika Tanaka
	Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo
WS15-16-P	Alteration of Tph/Treg and Th17/Treg balance in SLE patients by belimumab
	Shinji Maeda, Shuntaro Isogai, Shin-Ya Tamechika, Tomoyo Maeda, Taio Naniwa, Akio Niimi Department of Respiratory Medicine, Allergy and Clinical Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan
WS15-17-P	Identification of a novel autoantibody which facilitates T cell-mediated Sjogren's syndrome like sialadenitis
	O Mana lizuka ¹⁾ , Satoru Takahashi ^{2,3)} , Isao Matsumoto ⁴⁾ , Takayuki Sumida ⁴⁾ , Akihiko Yoshimura ¹⁾
	¹⁾ Department of Microbiology and Immunology, Keio University School of Medicine, ²⁾ Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, ³⁾ Laboratory Animal Resource Center, University of Tsukuba, ⁴⁾ Department of Internal Medicine, Faculty of Medicine, University of Tsukuba
WS15-18-P	Pathological analysis of nasal tissue in a murine model of Sjögren's syndrome
	Tamura Kai, Yuki Kawahito, Mami Sato, Kunihiro Otsuka, Takaaki Tsunematsu, Naozumi Ishimaru

Department of Oral Molecular Pathology, Tokushima University School of Dentistry, Tokushima, Japan

IL-26 facilitates cartilage destruction and infiltration of inflammatory cells into synovium in a collagen WS15-19-P induced arthritis model Yuki Shirakawa¹⁾, Ryo Hatano¹⁾, Takumi Itoh¹⁾, Haruna Otsuka¹⁾, Ko Okumura²⁾, Chikao Morimoto¹⁾ ¹⁾Department of Therapy Development and Innovation for Immune Disorders and Cancers, Graduate School of Medicine, Juntendo University, Tokyo, Japan, ²⁾Atopy (Allergy) Research Center, Graduate School of Medicine, Juntendo University, Tokyo, Japan WS15-20-P Investigation of the source, therapeutic response and clinical significance of citrullinated ITIH4 in autoimmune arthritis Ayako Ohyama, Tamaki Iwai, Taihei Nishiyama, Hiroto Tsuboi, Yuya Kondo, Isao Matsumoto Department of Rheumatology, Faculty of Medicine, University of Tsukuba **December 8 WS16 Tolerance and Immune suppression-1** The Foxp3^{A384T} mutation impairs TCR-induced proliferation of effector regulatory T cells by interfering with WS16-01-O/P c-Mvc induction Suzu Kawagoe, Maori Oda, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo The exon 5 of lkzf1 is required for Foxp3-dependent gene suppression to maintain the homeostasis of WS16-02-O/P regulatory T cells O Kenji Ichiyama, Shimon Sakaguchi Immunology Frontier Research Center (IFReC), Osaka University, Japan WS16-03-P Foxp3-transduced T cells acquire regulatory T cell-like epigenome, gene expression, and suppressive

activity in vivo

Yuxi Wei, Shotaro Funatsu, Ryuichi Murakami, Akira Nakajima, Shohei Hori Laboratory for Immunology and Microbiology, Graduated School of Pharmaceutical Sciences, The University of Tokyo

Antigen-specific stimulation induced peripherally derived Treg cells which establish Treg-specific epigenome and orchestrate oral tolerance

○ Masaya Arai¹⁾. Ryoji Kawakami^{1, 2)}. Norihisa Mikami¹⁾. Yamami Nakamura¹⁾. Shimon Sakaguchi^{1, 2)} ¹⁾Department of Experimental Immunology, Immunology Frontier Research Center (IFReC), Osaka University, Osaka, Japan, ²⁾Department of Experimental Immunology, Institute for Life and Medical Sciences, Kvoto university, Kvoto, Japan

Tonic TCR and IL-1b signaling mediate momentary and durable phenotypic alterations in naive CD4* T cells

 Takashi Sekiva Department of Immune Regulation, National Center for Global Health and Medicine, Ichikawa, Chiba, Japan

Identification of a novel intestinal dendritic cell subset drives Rorgt+ Treg differentiation

Chengcheng Zou, Ichiro Taniuchi Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences

WS16-04-O/P

WS16-05-O/P

WS16-06-O/P

WS16-07-O/P

Development of the tolerogenic nanoparticle to induce antigen-specific regulatory T cells

○ Hiroki Toriumi¹⁾, Li Shunyi²⁾, Daisuke Takahashi¹⁾, Takanatsu Hosokawa²⁾, Liu Yiwei²⁾, Yusuke Kinashi¹⁾, Seiga Komiyama¹⁾, Takeshi Mori²⁾, Koji Hase¹⁾

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WS16-08-O/P	Benign and harmful autoimmunity by manipulating the binding stability of self-peptides that influence the kinetics of tissue antigen-specific effector regulatory T cells
	○ Youwei Lin ^{1, 2)} , Shun Sakuraba ³⁾ , Chandirasegaran Massilamany ⁴⁾ , Jayagopala Reddy ⁵⁾ , Yoshimasa Tanaka ⁶⁾ , Sachiko Miyake ⁷⁾ , Takashi Yamamura ¹⁾
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WS16-09-O/P	TRIM28 mediated Treg function underlies suppressive tumor immune environment
	O Hodaka Hayabuchi, Shunsuke Chikuma Dept of Microbiology and Immunology, School of Medicine, Keio University, Tokyo, Japan
WS16-10-P	Suppressive function in TIGIT ⁺ iTreg cells is serially transmitted into new stimulated T cells via CD 155
	signaling with recall of TIGIT expression
	Naoko Negishi ^{1, 2)} , Koichiro Uchida ³⁾ , Kazuko Shibuya ⁴⁾ , Jiro Kitaura ²⁾ , Ko Okunura ²⁾ , Sonoko Habu ²⁾ 1)Department of Indoor Environment Neurophysiological Research, Juntendo University Graduate School of Medicine, Tokyo, Japan., ²⁾ Atopy Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan., ³⁾ Juntendo Advanced Research Institute for Health Science, Juntendo University School of Medicine, Tokyo, Japan., ⁴⁾ Department of Immunology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan
WS16-11-P	Expression and function of sialyl Lewis X glycans on mouse regulatory T cells
	 Kanae Ohishi, Shogo Nishida, Asaki Ishikura, Hiroko Nakatsukasa, Hirohito Abo, Hiroto Kawashima Laboratory of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan
WS16-12-O/P	The effect of Oxytocin on ischemic resistance in recurrence of stroke
	Ako Matsui, Yoshihiro Harada, Minako Ito Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS16-13-P	The role of regulatory T cells and dendritic cells in controlling the tumor microenvironment of human
	head and neck squamous cell carcinoma
	○ Kiyoshi Minohara ^{1, 2)} , Masaki Imai ¹⁾ , Takuma Matoba ^{1, 2)} , James Badger Wing ^{3, 4)} , Hiroaki Shime ¹⁾ , Mizuyu Odanaka ¹⁾ , Ryuta Uraki ^{1, 5, 6)} , Akimichi Morita ⁷⁾ , Naganari Ohkura ^{8, 9)} , Shimon Sakaguchi ⁸⁾ , Sayuri Yamazaki ¹⁾ ¹¹Department of Immunology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ²¹Department of Oto-rhino-laryngology and Head-and-neck-surgery, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ³¹Laboratory of Human Immunology (Single Cell Immunology), Immunology Frontier Research Center, Osaka University, Osaka, Japan., ⁴¹Human Single Cell Immunology Team, Center for Infectious Disease Education and Research (CiDER), Osaka University, Osaka, Japan., ⁵¹Division of Virology, Institute of Medical Science, University of Tokyo, Japan., ⁵¹The Research Centerfor Global Viral Diseases, National Center for Global Health and Medicine Research Institute, Tokyo, Japan., ⁵¹Department of Geriatric and Environmental Dermatology, Nagoya City University Graduate School of Medical Sciences, Nagoya, Japan, ⁵¹Department of Experimental Immunology, World Premier International Research Center Initiative, Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁹)Department of Frontier Research in Tumor Immunology, Center of Medical Innovation and Translational Research, Graduate School of Medicine, Osaka University, Osaka, Japan
WS16-14-P	The survival factors of GATA3+ Tregs in the convalescence stage of glomerulonephritis
	Ryota Sakai, Mariko Toguchi, Koichi Amano Saitama Medical Center, Saitama Medical University, Saitama, Japan
WS16-15-O/P	An anti-CD22 antibody that expands regulatory B cells inhibits development of type 1 diabetes and
	allograft rejection in mouse models
	Wang Long ¹⁾ , Shinji Kunitake ²⁾ , Ayaka Endo ²⁾ , Koji Atarashi ³⁾ , Takeshi Tsubata ¹⁾ ¹⁾ Pathology Department, Nihon University School of Dentistry, ²⁾ Immunology Department of Tokyo Medical and Dental University, ³⁾ Department of Microbiology and Immunology, School of Medicine, Keio University
WS16-16-P	Spatially heterogeneous immune regulations by resident macrophages in the liver
	Yu Miyamoto, Junichi Kikuta, Masaru Ishii Department of Immunology and Cell Biology, Osaka University Graduate School of Medicine, Osaka, Japan
WS16-17-P	FoxO1 suppresses IL-27-induced Tr1 cell differentiation
	Shigenori Nagai, Miyuki Azuma Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan

WS16-18-P	Single cell suppression profiling of human regulatory T cells
	Jonas Søndergaard ¹⁾ , Janyerkye Tulyeu ¹⁾ , David Priest ²⁾ , Shimon Sakaguchi ^{3, 4)} , James Wing ^{1, 2)} ¹⁾ Human Immunology Team, Center for Infectious Disease Education and Research (CIDER), Osaka University, Suita, Japan, ²⁾ Laboratory of Human Immunology (Single Cell Immunology), WPI Immunology Frontier Research Center (IFReC), Osaka University, Suita, Japan, ³⁾ Laboratory of Experimental Immunology, WPI Immunology Frontier Research Center (IFReC), Osaka University, Suita, Japan, ⁴⁾ Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University, Kyoto, Japan
WS16-19-P	Co-operative but distinct role of medullary thymic epithelial cells and dendritic cells in the production of
	Tregs in the thymus
	 Junko Morimoto¹⁾, Minoru Matsumoto²⁾, Mitsuru Matsumoto¹⁾ ¹⁾Division of Molecular Immunology, Institute for Enzyme Research, Tokushima University, Tokushima, Japan, ²⁾Department of Molecular Pathology, Tokushima University Graduate School of Biomedical Sciences, Tokushima, Japan
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WS17 Cytol	kines and Chemokines-1
WS17-01-O/P	DUSP3 regulates the STAT3-mediated signaling pathways
	○ Yuichi Sekine¹), Kenji Oritani²), Tadashi Matsuda³)
	¹⁾ Kyoto Pharmaceutical University, ²⁾ International University of Health and Welfare, ³⁾ Hokkaido University
WS17-02-P	Functional role of STAP-2 in pathogenesis of idiopathic pulmonary fibrosis
	○ Fuki Kobayashi ¹⁾ , Jun-Ichi Kashiwakura ²⁾ , Kenji Oritani ³⁾ , Tadashi Matsuda ¹⁾ ¹¹Department of Immunology, Graduate School of Pharmaceutical Sciences, Hokkaido University, Hokkaido, Japan, ²¹Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, Hokkaido, Japan, ³¹Department of Hematology, International University of Health and Welfare, Tochigi, Japan
WS17-03-O/P	The role of TRAF5 in TLR2 expressed by B- and T-lymphocytes and macrophages
	Mitsuki Azuma ¹⁾ , Hiroaki Saito ¹⁾ , Koyo Iwatani ¹⁾ , Wakana Imai ¹⁾ , Masashi Morita ¹⁾ , Naoto Ishii ²⁾ , Takanori So ¹⁾ Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan
WS17-04-P	TAK1 limits death receptor Fas-induced proinflammatory cell death in macrophages
	 Kengo Maeda, Shinsuke Taki, Hideki Sanjo Department of Molecular and Cellular Immunology, Shinshu University School of Medicine, Nagano, Japan
WS17-05-O/P	Anti-inflammatory effects of novel NF-kB inhibitory compounds in two inflammatory animal models
	O Hiroyuki Baba ¹⁾ , Tadashi Hosoya ¹⁾ , Yuma Kondo ¹⁾ , Ryosuke Ishida ²⁾ , Saki Hatsuzawa ²⁾ , Hiroyuki Kagechika ²⁾ ,
	Shinsuke Yasuda ¹⁾ ¹⁾ Department of Rheumatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, ²⁾ Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University (TMDU), Tokyo, Japan
WS17-06-O/P	Mechanisms of pathogenesis induced by autoimmune disease-associated gene C8orf13
	○ Shintaro Hojyo ^{1,2)} , Shuhei Shimoyama ^{1,3)} , Yuki Tanaka ²⁾ , Tatsuya Atsumi ³⁾ , Daisuke Kamimura ¹⁾ , Masaaki Murakami ^{1,2,4)}
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WS17-07-P	Placental ACKR3 regulates hematopoietic stem cells in offspring by scavenging mother-derived CXCL12
	Ayumi Fukuoka, Gillian Wilson, Marieke Pingen, Gerard Graham Chemokine Research Group, Institute of Infection, Immunity and Inflammation, University of Glasgow, UK
WS17-08-O/P	Innate immune responses triggered by CpG DNA-CXCL14 complex is mediated by Immunogloblin
	superfamily proteins
	Risa Saito ^{1, 2)} , Kosuke Tanegashima ²⁾ , Takahiko Hara ^{1, 2, 3)} ¹⁾ Grad. Sch. of Tokyo Medical and Dental Univ., ²⁾ Stem Cell Project, Tokyo Metropol. Inst. Med. Sci., ³⁾ Grad. Sch. Tokyo Metropol. Univ.

WS17-09-O/P	Rap1 facilitates cell polarization via RhoA signaling in T cells
	○ Yoshihiro Ueda¹¹, Koichiro Higasa²¹, Yuji Kamioka¹¹, Naoyuki Kondo¹¹, Shunsuke Horitani³¹, Yoshiki Ikeda¹¹, Takataro Fukuhara³¹, Yoshinori Fukui⁴¹, Tatsuo Kinashi¹¹
	¹⁾ The Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University, ²⁾ The Department of Genome Analysis, Institute of Biomedical Science, Kansai Medical University, ³⁾ Division of Gastroenterology and Hepatology, the Third Department of Internal Medicine, Kansai Medical University, ⁴⁾ Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University
WS17-10-O/P	Crosstalk between the β_2 -adrenergic receptor and chemokine receptors in lymphocyte recirculation
	through lymph nodes
	○ Akiko Nakai ^{1, 2)} , Kazuhiro Suzuki ^{1, 2, 3)}
	¹⁾ Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan., ²⁾ Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan., ³⁾ Center for Infectious Disease Education and Research, Osaka University
WS17-11-O/P	Ligand-independent function of β2-adrenergic receptor affects IgE-mediated Ca2+-influx in mast cells
	C Kei Nagao ^{1, 2)} , Yuki Fujita ^{1, 2)} , Hitoshi Urakami ¹⁾ , Atsunori Kamiya ¹⁾ , Sachiko Miyake ²⁾ , Soichiro Yoshikawa ^{1, 2)} Department of Cellular Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Department of Immunology, Juntendo University School of Medicine
WS17-12-O/P	Extracellular DJ-1 has a essential role in the induction of sterile inflammation after ischemic stroke
	○ Koutarou Nakamura ^{1, 2)} , Ryuki Koyama ²⁾ , Takashi Shichita ²⁾
	¹⁾ Graduate School of Frontier Sciences, The University of Tokyo, Tokyo, JAPAN, ²⁾ Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan
WS17-13-O/P	Conditioned medium of immortalized stem cells from human exfoliated deciduous tooth exhibit protective
	effect on the peripheral neuropathy of experimental autoimmune neuritis
	○ Eri Sakamoto ¹⁾ , Hideaki Hasegawa ²⁾ , Aruma Watanabe ³⁾ , Yasuhiro Katahira ⁴⁾ , Satomi Miyakawa ⁵⁾ , Izuru Mizoguchi ⁶⁾ , Takayuki Yoshimoto ⁷⁾
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WS17-14-P	Mesenchymal stromal cells regulate epithelial stem cell metabolism in the colon by producing CXCL12
	○ Mayu Yagita ¹⁾ , Hisako Kayama ²⁾ , Takashi Nagasawa ³⁾ , Atsushi Kumanogoh ¹⁾ , Kiyoshi Takeda ²⁾
	¹⁾ Department of Respiratory Medicine, Clinical Immunology, Graduate School of Medicine, Osaka University, Suita, Japan., ²⁾ Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ³⁾ Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Frontier Biosciences, Osaka University, Suita, Japan
WS17-15-P	Oncostatin M receptor $\boldsymbol{\beta}$ mediates skin wound healing by promoting fibroblast accumulation and function
	○ Yuko Ishida ¹⁾ , Yumi Kuninaka ¹⁾ , Tadasuke Komori ²⁾ , Mizuho Nosaka ¹⁾ , Akihiko Kimura ¹⁾ , Atsushi Miyajima ³⁾ , Yoshihiro Morikawa ²⁾ , Mariko Kawaguchi ¹⁾ , Toshikazu Kondo ¹⁾
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WS17-16-P	Physiological function of chemokine CCL20 and its receptor CCR6 in multiple sclerosis in mice
	Nozomi Sachi, Naganori Kamiyama, Sotaro Ozaka, Shimpei Ariki, Thanyakorn Chalalai, Yomei Kagoshima, Takashi Kobayashi
	Department of Infectious Disease Control, Faculty of Medicine, Oita University, Oita, Japan.
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WS18-01-O/P RIPK1 blocks T cell senescence mediated by RIPK3 and caspase-8

○ Takayuki Imanishi, Takashi Saito

Laboratory for Cell Signaling, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Japan

WS18-02-O/P	Role of Bcl6 in DNA methylation-mediated T cell senescence and tumorigenesis Hiroko Nakatsukasa ¹⁾ , Akihiko Yoshimura ²⁾ Thaboratory of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan, Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan
WS18-03-O/P	Human GC-Tfh cells differentiate into IL-10+ follicular T cells with regulatory functions
	Shusei Fujioka ^{1,2)} , Yusuke Imoto ²⁾ , Mayu Fujioka ^{1,2)} , Hiroyuki Yoshitomi ^{1,2)} , Yasuaki Hiraoka ²⁾ , Hideki Ueno ^{1,2)} ¹⁾ Department of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾ Institute for the Advanced Study of Human Biology (ASHBi), Kyoto, Japan
WS18-04-O/P	Phenotypic and functional analyses reveal self-driven memory-phenotype CD4 ⁺ T lymphocytes as a
_	heterogeneous population distinct from foreign antigen-specific memory cells
	Takeshi Kawabe ^{1, 2, 3)} , Thomas Ciucci ^{4, 5)} , Kwang Soon Kim ⁶⁾ , Shunichi Tayama ¹⁾ , Akihisa Kawajiri ¹⁾ , Naoto Ishii ¹⁾ , Dragana Jankovic ²⁾ , Jinfang Zhu ³⁾ , Jonathan Sprent ^{7, 6)} , Remy Bosselut ⁴⁾ , Alan Sher ²⁾ ¹¹Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan., ²¹Immunobiology Section, Laboratory of Parasitic Diseases, National Institutes of Health, Bethesda, MD, USA., ³³Molecular and Cellular Immunoregulation Section, Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA., ⁴¹Laboratory of Immune Cell Biology, Center for Cancer Research, National Cancer Institute, National Institutes of Health, Bethesda, MD, USA., ⁵¹David H. Smith Center for Vaccine Biology and Immunology, Department of Microbiology and Immunology, University of Rochester, Rochester, NY, USA., ⁵¹Department of Integrative Biosciences and Biotechnology, Pohang University of Science and Technology, Pohang, Republic of Korea., ¹³Immunology Division, Garvan Institute of Medical Research, Darlinghurst, NSW, Australia, ⁵¹St. Vincent's Clinical School, University of New South Wales, Sydney, NSW, Australia
WS18-05-O/P	Nuclear receptor ROR $lpha$ regulates bystander activation of memory T cells
	 Kensuke Takada, Zimeng Cai, Hironobu Mita, Mina Kozai, Shangyi Wang, Mutsumi Inaba Laboratory of Molecular Medicine, Faculty of Veterinary Medicine, Hokkaido University
WS18-06-O/P	Charcterization of self glycolipids presented by CD1d that activate NKT cells
	○ Yuki Hosono ^{1, 2, 3)} , Noriyuki Tomiyasu ⁴⁾ , Yoshihiro Izumi ⁴⁾ , Akihiro Imamura ⁵⁾ , Eri Ishikawa ^{1, 2)} , Atsushi Kumanogoh ^{3, 6)} , Hideharu Ishida ⁵⁾ , Takeshi Bamba ⁴⁾ , Sho Yamasaki ^{1, 2, 6)} ¹⁾ Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Suita, Japan, ²⁾ Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ³⁾ Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Suita, Japan, ⁴⁾ Division of Metabolomics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ⁵⁾ Department of Applied Bioorganic Chemistry, Gifu University, Gifu, Japan, ⁶⁾ Center for Infectious Disease Education and Research, Osaka University, Suita, Japan
WS18-07-O/P	A novel subset of Treg controls the progression of colorectal cancer in humans and mice
	 ◯ Kazushige Obata-Ninomiya, Steven F. Ziegler Benaroya Research Institute, WA, US
WS18-08-O/P	Critical roles of an endoribonuclease N4bp1 in regulating CD8 T cell homeostasis and cancer immunosurveillance Guohao Liu, Yee Kien Chong, Osamu Takeuchi Department of Medical Chemistry Graduate School of Medicine, Kyoto University
WS18-09-P	Nr4a promotes T cell mediated immunosenescence
	Daisuke Aki, Akihiko Yoshimura Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan
WS18-10-P	Aging process augments Th17-type airway inflammation by IL-18
	Masakiyo Nakahira, Etsushi Kuroda Department of Immunology, Hyogo Medical University
WS18-11-P	Bob1 regulates memory T follicular helper cells to control antigen-specific humoral immunity Masahiro Yanagi ^{1,2)} , Ippei Ikegami ¹⁾ , Shiori Kamiya ¹⁾ , Taiki Sato ¹⁾ , Hiroshi Sakamoto ¹⁾ , Mihoko Ohashi ¹⁾ , Ryuta Kamekura ¹⁾ , Hirofumi Chiba ²⁾ , Shingo Ichimiya ¹⁾

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WS18-12-P	A role of Achaete-scute complex homolog 2 in T follicular regulatory cell development
	○ Kazuma lida ^{1,2)} , Kotaro Suzuki ²⁾ , Takahiro Kageyama ²⁾ , Kazuyuki Meguro ²⁾ , Shigeru Tanaka ²⁾ , Arifumi Iwata ²⁾ , Akira Suto ²⁾ , Hiroshi Nakajima ²⁾
	¹⁾ Leading Graduate School Program, ²⁾ Department of Allergy and Clinical Immunology, Graduate School of Medicine Chiba University, Chiba, Japan
WS18-13-P	Arf pathway plays a critical role in metabolic reprogramming during T cell activation
	Mami Sumiyoshi ¹⁾ , Yui Kotani ^{1, 2)} , Satoshi Matsuda ¹⁾ , Yoichi Maekawa ^{3, 4)} , Chikako Shimokawa ⁵⁾ ¹⁾ Department of Cell Signaling, Institute of Biomedical Science, Kansai Medical University, Osaka, Japan, ²⁾ Department of Biological Science, Graduate School of Human and Science, Nara Women's University, Nara, Japan, ³⁾ Department of Parasitology and Infectious Diseases, Gifu University Graduate School of Medicine, Gifu, Japan, ⁴⁾ Domain of Integrated Life Systems, Centre for Highly Advanced Integration of Nano and Life Sciences (G-CHAIN), Gifu University, Gifu, Japan, ⁵⁾ Department of Parasitology, National Institute of Infectious Disease, Tokyo, Japan
WS18-14-P	Rapid accumulation of circulating memory-phenotype CD4 ⁺ T lymphocytes in the gut critically contributes to tissue injury driven by intestinal ischemia and reperfusion
	○ Kosuke Sato ^{1,2} , Jing Li ¹ , Ziying Yang ¹ , Akihisa Kawajiri ¹ , Shunichi Tayama ¹ , Yuko Okuyama ¹ , Motoshi Wada ² , Naoto Ishii ¹ , Takeshi Kawabe ¹ ¹¹Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan., ²¹Department of Pediatric
	Surgery, Tohoku University Graduate School of Medicine, Sendai, Japan
WS18-15-P	Aryl hydrocarbon receptor signals in epithelial cells govern the recruitment and location of Helios ⁺ Tregs in the gut
	○ Yusuke Yoshimatsu¹), Kentaro Miyamoto², Tomohisa Sujino¹), Yohei Mikami¹), Nobuhiro Nakamoto¹),
	Takanori Kanai ¹⁾ ¹⁾ Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan, ²⁾ Miyarisan Pharmaceutical Co., Research Laboratory, Tokyo, Japan
WS18-16-P	Fluctuations in SOCS1 expression in the pathogenesis of SLE
	Reiko Takahashi, Yoshitaka Imura Department of Clinical Immunology and Rheumatology, Tazuke Kofukai Medical Research Institute, Kitano Hospital, Osaka, Japan
WS18-17-P	Abcd1-deficiency supports Th1-lineage commitment
	 Reina Maeda, Mitsuki Azuma, Masashi Morita, Takanori So Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan
WS18-18-P	Agonistic anti-PD-1 antibodies stimulating immunosuppressive activity of PD-1 alleviate inflammatory diseases
	O Akio Ohta ¹⁾ , Kensuke Suzuki ^{1, 2)} , Masaki Tajima ^{1, 3)} , Yosuke Tokumaru ^{1, 2)} , Yuya Oshiro ^{1, 2)} , Satoshi Nagata ⁴⁾ , Haruhiko Kamada ⁴⁾ , Miho Kihara ⁵⁾ , Kohei Nakano ⁵⁾ , Tasuku Honjo ³⁾
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WS18-19-P	A PKD inhibitor cancels the effect of PD-1 blockade in a murine model of cancer immunotherapy
	Shunsuke Chikuma Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan
WS18-20-P	Immunological Functions of Memory-Phenotype CD4 ⁺ T lymphocytes in Anti-Tumor Responses and Graft- versus-Host Disease
	 Ziying Yang, Hideaki Watanabe, Jing Li, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Yuko Okuyama, Naoto Ishii, Takeshi Kawabe Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan
WS18-21-P	Inhibition of ACC1-dependent de novo fatty acid biosynthesis augments Th9 cell differentiation and anti-
	tumor activity
	○ Takahiro Nakajima, Toshio Kanno, Yusuke Endo Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, Chiba, Japan

WS18-22-P	The molecular mechanism of T cell dysfunction by NR4A transcription factors and its rejuvenation Tanakorn Srirat, Akihiko Yoshimura Keio University
WS18-23-P	Nutrient condition in the microenvironment determines essential metabolisms of CD8 T cells for enhanced IFN γ production by metformin
	Ruoyu Chao, Mikako Nishida, Nahoko Yamashita, Miho Tokumasu, Weiyang Zhao, Ikuru Kudo, Heiichiro Udono Department of Immunology, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences Japan
WS18-24-P	Dependence of tumor-reactive T cells on antigen presentation pathway
	Haruka Shimizu ¹⁾ , Hiroyasu Aoki ^{1, 2)} , Mikiya Tsunoda ¹⁾ , Kouji Matsushima ¹⁾ , Satoshi Ueha ¹⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, Tokyo, Japan, ²⁾ Department of Hygiene, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
WS18-25-P	PD-1highCXCR5–CD4+ Peripheral Helper T (Tph) cells Promote CXCR3+ Plasmablasts in the early phase of COVID-19
	O Hiromitsu Asashima ^{1,2,3)} , Subhasis Mohanty ⁴⁾ , Kenneth Hoehn ⁵⁾ , Patrick Wong ²⁾ , Steven Kleinstein ^{2,5,6)} , Akiko Iwasaki ^{2,4,7)} , Albert Shaw ⁴⁾ , David Hafler ^{1,2)} , Tomokazu Sumida ^{1,2)} , Isao Matsumoto ³⁾ ¹⁾ Department of Neurology, Yale School of Medicine, New Haven, CT, USA, ²⁾ Department of Immunobiology, Yale School of Medicine, New Haven, CT, USA, ³⁾ Department of Rheumatology, Faculty of Medicine, University of Tsukuba, Tsukuba city, Ibaraki, Japan., ⁴⁾ Section of Infectious Diseases, Department of Internal Medicine, Yale School of Medicine, Yale University, New Haven, CT, USA, ⁵⁾ Department of Pathology, Yale School of Medicine, New Haven, CT, USA, ⁶⁾ Interdepartmental Program in Computational Biology and Bioinformatics, Yale University, New Haven, CT, USA, ⁷⁾ Howard Hughes Medical Institute, Chevy Chase, MD, USA
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WS19 Mucos	eal and Skin Surface Barrier
WS19-01-O/P	Roles of Disialylated Glycan in the Gut Mucosal Barrier
	Mugen Taniguchi ^{1, 2)} , Ryu Okumura ^{1, 3)} , Kiyoshi Takeda ^{1, 3)} ¹⁾ Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Suita, Japan., ²⁾ Infectious Diseases Unit, Department of Medical Innovations, New Drug Research Division, Otsuka Pharmaceutical Co., Ltd., Tokushima, Japan., ³ WPI Immunology Frontier Research Center, Osaka University, Suita, Japan
WS19-02-O/P	The protective function of conjunctival goblet cell mucin sialylation
	○ Tomoaki Ando¹), Moe Matsuzawa¹,²,²,³), Saaya Fukase¹,²,³), Meiko Kimura¹,²,³), Yasuharu Kume¹,²,³), Kumi Izawa¹), Ayako Kaitani¹), Ko Okumura¹), Akira Matsuda³), Akira Murakami³), Nobuyuki Ebihara²,³), Jiro Kitaura¹,⁴) ¹¹Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine (Tokyo, Japan),²¹Department of Ophthalmology, Juntendo University Urayasu Hospital (Chiba, Japan),³¹Department of Ophthalmology, Juntendo University Graduate School of Medicine,⁴¹Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine (Tokyo, Japan)
WS19-03-O/P	Tuft cell-derived IL-25 induced by cecectomy ameliorates colitis development
	○ Shunya Hatai ¹⁾ , Yasutaka Motomura ^{1, 2, 3)} , Koji Hosomi ⁴⁾ , Jun Kunisawa ⁴⁾ , Kazuyo Moro ^{1, 2, 3, 5)}
	¹⁾ Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Osaka University Graduate School of Medicine, ²⁾ Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), ³⁾ Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center, ⁴⁾ Laboratory of Vaccine Materials, Center for Vaccine and Adjuvant Research, and Laboratory of Gut Environmental System, National Institutes of Biomedical Innovation, Health, and Nutrition (NIBIOHN), ⁵⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School of Frontier Biosciences
WS19-04-P	IkappaBzeta regulates IL-17-triggered gene program in intestinal epithelial cells that restricts colonization of SFB and prevents autoimmune disorders
	○ Soh Yamazaki¹¹, Naohiro Inohara²¹, Yousuke Tsuneoka³, Hideo Yaqita⁴, Takaharu Kataqiri¹¹, Takashi Nishina¹¹,

Tetuo Mikami⁵⁾, Hiroyasu Nakano¹⁾

¹⁾Department of Biochemistry, Toho University School of Medicine, ²⁾Department of Pathology, University of Michigan Medical School, ³⁾Department of Anatomy, Toho University School of Medicine, ⁴⁾Department of Immunology, Juntendo University Graduate School of Medicine, ⁵⁾Department of Pathology, Toho University School of Medicine

WS19-05-P	Visible pathogenetic analysis of ulcerative colitis-like inflammatory bowel disease using ER-stress reporter gene and HLA-DR4 transgenic mice
	Ryo Ikeda ¹⁾ , Atsushi Irie ¹⁾ , Yoshihiro Komohara ²⁾ , Hiroyuki Oshiumi ¹⁾ Dep Immunol, Grad Sch Med Sci, Kumamoto university,, ²⁾ Dep Cell Pathol, Grad Sch Med Sci, Kumamoto university
WS19-06-P	Changes in intestinal GABA concentration by intervention in gut microbiota and its physiological effects Mion Ikegami ¹⁾ , Gaku Harata ²⁾ , Kenji Miyazawa ²⁾ , Yushiro Fuji ¹⁾ , Hiroshi Matsufuji ¹⁾ , Yusuke Nakanishi ¹⁾ , Kyoko Takashi ¹⁾ Graduate School of Bioresource Sciences, Nihon University, Kanagawa, Japan, Pechnical Research Laboratory, Takanashi Milk Products Co., Ltd, Kanagawa, Japan
WS19-07-P	Antibiotics promote epithelial cell death and eosinophilic infiltration in the gut caused by an aluminum-containing food additive
	Ayako Wakabayashi ¹⁾ , Atsuko Owaki ¹⁾ , Ken Iwatsuki ²⁾ , Yasuhiro Nishiyama ³⁾ , Shoji Matsune ⁴⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾ Department of Nutritional Science and Food Safety, Faculty of Applied Bioscience, Tokyo University of Agriculture, Tokyo, Japan, ³⁾ Department of Neurological Science, Nippon Medical School, Tokyo, Japan, ⁴⁾ Department of Otolaryngology, Nippon Medical School Musashi Kosugi Hospital, Kanagawa, Japan
WS19-08-P	Augmented leptin-induced trefoil factor 3 expression and epidermal growth factor receptor transactivation differentially influences neoplasia progression in the stomach and colorectum of dietary fat-induced obese mice — Kyoko Inagaki-Ohara
	Division of Host Defense, Department of Life Sciences, Faculty of Life and Environmental Sciences, Prefectural University of Hiroshima
WS19-09-P	Irisin promotes intestinal epithelial cell proliferation via Wnt/beta-catenin and integrin beta 1/FAK signaling pathway Gaowa Arong, Eun Jeong Park, Motomu Shimaoka Mie University
WS19-10-P	Local MMP9-plasminogen axis is involved in the development of inflammation in intestine of dogs and patients
	Takeshi Yamasaki ^{1, 2)} , Noriyuki Nagata ³⁾ , Toru Atsumi ¹⁾ , Rie Hasebe ^{2, 4)} , Yuki Tanaka ^{1, 5)} , Yong Bin Teoh ³⁾ , Hiroshi Ohta ⁶⁾ , Yoshihiro Matsuno ⁷⁾ , Shimpei Kubota ¹⁾ , Shintaro Hojyo ¹⁾ , Mitsuyoshi Takiguchi ³⁾ , Masaaki Murakami ^{1, 2, 5)} ¹⁾ Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²⁾ Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institute of Natural Sciences, Okazaki, Japan, ³⁾ Laboratory of Veterinary Internal Medicine, Department of Clinical Sciences, Graduate School of Veterinary Medicine, Hokkaido University, Sapporo, Japan, ⁴⁾ Center for infectious Cancers, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ⁵⁾ Group of Quantum Immunology, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology (QST), Inage, Japan, ⁵⁾ Laboratory of Veterinary Internal Medicine, Department of Small Animal Clinical Sciences, School of Veterinary Medicine, Rakuno Gakuen University, Ebetsu, Hokkaido, Japan, ⁷⁾ Department of Surgical Pathology, Hokkaido University Hospital, Sapporo, Japan
WS19-11-P	High-efficient genetic engineering of enteroids using mouse isolated crypts revealing the intestinal function
	Shuya Ohira ¹⁾ , Yuki Yokoi ^{1, 2)} , Yuito Kaibori ¹⁾ , Yu Shimizu ²⁾ , Tokiyoshi Ayabe ^{1, 2)} , Kiminori Nakamura ^{1, 2)} Ograduate School of Life Science, Hokkaido University, Sapporo, Japan, Department of Cell Biological Science, Faculty of Advanced Life Science, Hokkaido University, Sapporo, Japan
WS19-12-O/P	Intracellular metabolic adaptation of intraepithelial CD4 ⁺ CD8aa ⁺ T lymphocytes Yosuke Harada ¹⁾ , Tomohisa Sujino ²⁾ , Kentaro Miyamoto ³⁾ , Ena Nomura ¹⁾ , Takanori Kanai ¹⁾ Department of Gastroenterology and Hepatology, School of Medicine, Keio University, Tokyo, Japan, ²⁾ Center for Diagnostic and Therapeutic Endoscopy, Keio University Hospital, Tokyo, Japan, ³⁾ Miyarisan Pharm. Co. Ltd. Tokyo, Japan
WS19-13-O/P	Epithelial HVEM maintains intraepithelial T cell survival and contributes to host protection Daisuke Takahashi ^{1,2)} , Goo-Young Seo ¹⁾ , Qingyang Wang ¹⁾ , Zbigniew Mikulski ¹⁾ , Mitchell Kronenberg ¹⁾ La Jolla Institute for Immunology, ² Keio University Faculty of Phamacy

WS19-14-O/P	Basolateral sorting of CD166 in intestinal epithelial cells by clathrin adaptor protein AP-1B is required for interaction with intraepithelial lymphocytes
	Ryohtaroh Matsumoto ¹⁾ , Kosuke Ogata ²⁾ , Daisuke Takahashi ¹⁾ , Yusuke Kinashi ¹⁾ , Takahiro Yamada ¹⁾ , Aiko Saeki ¹⁾ , Hiroshi Ohno ³⁾ , Yasushi Ishihama ²⁾ , Shunsuke Kimura ¹⁾ , Koji Hase ¹⁾ Division of Biochemistry, Graduate School of Pharmaceutical Science, Keio University, Poppartment of Molecular & Cellular BioAnalysis,
	Graduate School of Pharmaceutical Sciences, Kyoto University, ³ Laboratory of Intestinal Ecosystem, RIKEN Center for Integrative Medical Science
WS19-15-P	Withdrawn
WS19-16-P	Notch signal controls final differentiation of $TCR_{\gamma}\delta^{\dagger}CD8\alpha\alpha^{\dagger}$ intraepithelial lymphocytes in the small intestine
	Ochieko Ishifune, Koji Yasutomo Department of Immunology and Parasitology, Tokushima University Graduate School of Biomedical Sciences, Tokushima, Japan
WS19-17-P	Characterization of CD8 positive γδT cells in psoratic skin inflammation
	○ Himawari Matsunaga, Koichi Sudo, Kazuhiko Takahara Laboratory of Immunobiology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan
WS19-18-O/P	Intestinal barrier dysfunction by intestine-specific AP-1B deficiency causes IgA nephropathy-like symptoms
	○ Yusuke Kinashi¹¹, Daisuke Takahashi¹¹, Hiroshi Ohno²¹, Shunsuke Kimura¹¹, Koji Hase¹¹ ¹¹Division of Biochemistry, Graduate School of Pharmaceutical Science, Keio University, Tokyo, Japan, ²¹Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
WS19-19-O/P	Selective IgA deficiency induces spontaneous inflammation in the ileum
	Takashi Nagaishi ¹⁾ , Daiki Yamada ¹⁾ , Tadahiko Inoue ¹⁾ , Richard S. Blumberg ²⁾ , Ryuichi Okamoto ¹⁾ , Takahiro Adachi ³⁾ Department of Gastroenterology, Graduate School of Medical Science, Tokyo Medical and Dental University, Tokyo, Japan., ²⁾ Gastroenterology Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA., ³⁾ Department of Precision Health, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan
WS19-20-O/P	Detection of S-IgA antibodies in plasma of neonates and identification of the source
	Caori Ito, Kohta Saukurai, Mutsumi Furukawa, Tomonori Nochi International Education and Research Center for Food and Agricultural Immunology, Graduate School of Agricultural Science, Tohoku University, Miyagi, Japan
WS19-21-P	IL-21 and IL-5 coordinately induce surface IgA+ cells
	○ Masaaki Hashiguchi ^{1, 2)} , Hidefumi Kojima ²⁾ , Yoshiko Iwai ¹⁾
	¹⁾ Department of Cell Biology, Institute of Advanced Medical Sciences, Nippon Medical School, ²⁾ Divison of Host Defense, Research Center for Advanced Medical Science, Dokkyo Medical University School of Medicine
WS19-22-P	Does BNT162b2 inoculation enhance in the oral mucosal immunity?
	○ Tomoko Shimizu, Keiichi Tsukinoki Kanagawa Dental University, Yokosuka, Kanagawa, Japan
WS19-23-P	Different ability between Peyer's patches and Cecal patches to generate IgA ⁺ / IgG2b ⁺ B cells that are
	reactive to commensal microbiota
	Hiraku Okada ¹⁾ , Masato Tsuda ¹⁾ , Satoshi Hachimura ²⁾ , Yoshimasa Takahashi ³⁾ , Kyoko Takahashi ^{1, 4)} , Akira Hosono ¹⁾ Department of Food Bioscience and Biotechnology, College of Bioresource Sciences, Nihon University, Fujisawa-shi, Kanagawa, Japan, Research Center for Food Safety, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan., Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Tokyo, Japan., Department of Applied Biological Science, College of Bioresource Sciences, Nihon University, Fujisawa-shi, Kanagawa, Japan

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WS20 Dendritic cells and macrophages-2: Myeloid cell linage and their differentiation WS20-01-P Unique cell harvesting technology without trypsinization - Recovery of various cell types by temperatureresponse cultureware UpCell® -Asumi Yoshihara, Eriko Ikeda, Yuzo Kasuya Cultureware Development Department, CellSeed inc., Tokyo, Japan WS20-02-O/P Transcriptomic and functional analyses uncover an immature suppopulation of basophils in the bone marrow and FoxO1 as a transcription factor involved in the regulation of basophil responsiveness ∪ Junya Ito¹¹, Kensuke Miyake¹¹, Kazufusa Takahashi¹¹, Shigeyuki Shichino²¹, Hajime Karasuyama¹¹ ¹⁾Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, ²⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute of Biomedical Sciences, Tokyo University of Science, Noda, Japan WS20-03-P Properties and functional analysis of cultured common lymphoid progenitor-derived monocytic cells (cCLP-M) O Yohei Kawano. Mizuki Moriyama. Shun Ohki. Yasuo Kitaiima. Tomoharu Yasuda Dept. of Immun., Hiroshima University, Hiroshima, Japan Activation of retinoid X receptor promotes differentiation of monocytes into CX3CR1^{hi} macrophages in the colon WS20-04-O/P Wakana Ohashi¹⁾, Masayoshi Onuki¹⁾, Eiji Umemoto²⁾, Masaru Ishii³⁾, Kiyoshi Takeda⁴⁾, Hiroki Kakuta⁵⁾, Koji Hase¹⁾ ¹⁾Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, ²⁾Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan, ³⁾Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴⁾Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁵⁾Division of Pharmaceutical Sciences, Graduate School of Medicine Dentistry and Pharmaceutical Sciences, Okayama University, Okayama Japan WS20-05-O/P Identification of differentiation pathway for neutrophil-like monocytes during emergency hematopoiesis Naoki Ikeda¹⁾, Ayaka Iwata¹⁾, Takashi Kamatani²⁾, Tatsuhiko Tsunoda^{3,4)}, Yoshihiro Hayashi⁵⁾, Hironori Harada⁵⁾, Yuka Harada⁶⁾. Masato Tanaka¹⁾. Kenichi Asano¹⁾ ¹⁾Lab. of Immune Regulation, Tokyo University of Pharmacy and Life Sciences, ²⁾M&D Data Science Center, Tokyo Medical and Dental University, ³⁾Graduate School of Science, The University of Tokyo, ⁴⁾RIKEN Center for Integrative Medical Sciences, ⁵⁾Lab. of Oncology, Tokyo University of Pharmacy and Life Sciences, ⁶⁾Department of Clinical Laboratory, Komagome Hospital Role of innate myeloid cells in functional recovery after ischemic stroke WS20-06-P O Jun Tsuyama, Takashi Shichita Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan WS20-07-P The role of an intracellular chaperones of long-chain fatty acids FABP7 in liver macrophages during liver diseases Hirofumi Miyazaki, Shuhan Yang, Yuji Owada Department of Organ Anatomy, Graduate school of medicine, Tohoku university WS20-08-P Altered immune cell composition in human Primary biliary cholangitis liver Shuhe Ma, Hideki Ueno Immunology Group, Institute for the Advanced Study of Human Biology (ASHBi) KUIAS Kyoto University, Kyoto, Japan CSF1-producing cells in the intestine contributes to the maintenance of macrophages WS20-09-O/P O Daichi Nonaka, Eriko Sumiya, Shinichiro Sawa Medical institute of bioregulation Kyushu university WS20-10-O/P Molecular mechanisms of short-chain fatty acids-mediated transactivation of integrin genes in dendritic cells Weiting Zhao, Kazuki Nagata, Naoto Ito, Masakazu Hachisu, Chiharu Nishiyama Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan

WS20-11-P	The deficiency of a nuclear receptor NR4A3 deteriorate psoriasis by enhancing TLR7-mediated activation of dendritic cells
	○ Mayuka Katagiri¹¹, Naoto Ito¹¹, Natsuki Minamikawa¹¹, Takuya Yashiro¹¹, Nobuhiro Nakano²¹, Kazuki Nagata¹¹, Akihiko Yoshimura³³, Chiharu Nishiyama¹¹
	¹⁾ Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan, ²⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ³⁾ Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan
WS20-12-P	The roles of transcription factors PU.1, IRF4, and IRF8 in regulation of the genes expressed in dendritic cells
	O Naoto Ito ¹⁾ , Mayumi Hirakawa ²⁾ , Natsuki Minamikawa ¹⁾ , Mayuka Katagiri ¹⁾ , Kazuki Nagata ¹⁾ , Tomokatsu Ikawa ²⁾ , Chiharu Nishiyama ¹⁾
	¹⁾ Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, Tokyo, Japan, ²⁾ Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan
WS20-13-P	SIRPα and CD47 promote cDC2 survival through the regulation of transcriptional factor Nr4a3
	○ Satomi Komori ^{1, 2)} , Yasuyuki Saito ²⁾ , Taichi Nishimura ²⁾ , Hiroki Yoshida ²⁾ , Risa Sugihara ²⁾ , Tomoko Takai ^{1, 2)} , Takenori Kotani ²⁾ , Yoji Murata ²⁾ , Takashi Matozaki ^{1, 2)}
	¹⁾ Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, ²⁾ Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan
WS20-14-P	An optimized small molecule inhibitor cocktail supports maturation of dendritic cells in human monocyte derived dendritic cell culture system
	○ Shintaro Matsuba ^{1, 2)} , Nobuyuki Onai ¹⁾
	¹⁾ Department of Immunology, Kanazawa Medical University, Uchinada, Japan, ²⁾ Research support center, Medical Research Institute, Kanazawa Medical University, Uchinada, Japan
WS20-15-O/P	Migratory CD301b ⁺ cDC2 cells instruct the fate of effector CD4 T cells through cognate interactions
	○ Naoya Tatsumi, Yosuke Kumamoto Rutgers New Jersey Medical School, Newark, NJ, USA
WS20-16-P	Advanced classification of liver resident and bone marrow-derived macrophages
	Hiroyuki Nakashima ¹⁾ , Azusa Kato ¹⁾ , Hiromi Miyazaki ²⁾ , Seigo Ito ³⁾ , Masahiro Nakashima ¹⁾ , Manabu Kinoshita ¹⁾ Department of Immunology and Microbiology, National Defense Medical College, ²⁾ Division of Biomedical Engineering, National Defense Medical College Research Institute, ³⁾ Department of Internal Medicine, Self-Defense Force Iruma Hospital
WS20-17-P	Constitutive loss of conventional dendritic cells promotes tumor development
	 Moe Tominaga, Tomofumi Uto, Tomohiro Fukaya, Katsuaki Sato Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki
WS20-18-P	The novel CD103 ⁻ dendritic cell-like subset found in rat thymus
	 Yasushi Sawanobori, Hisashi Ueta, Yusuke Kitazawa, Nobuko Tokuda Department of Anatomy, Dokkyo Medical University, Mibu, Tochigi, Japan
WS20-19-O/P	The aryl hydrocarbon receptor instructs the immunomodulatory profile of a subset of Clec4a4 ⁺ eosinophils unique to the small intestine
	Jun Kasamatsu ^{1,2)} , Wei-Le Wang ²⁾ , Susan Gilfillan ²⁾ , Marina Cella ²⁾ , Marco Colonna ²⁾ ¹⁾ Department of Intelligent Network for Infection Control Tohoku University Graduate School of Medicine, ²⁾ Department of Pathology and Immunology, Washington University School of Medicine in Saint Louis
WS20-20-O/P	Identification of a novel macrophage subset involved in pulmonary fibrosis by intravital imaging techniques
	Akio Suzuki, Junichi Kikuta, Masaru Ishii Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University, Osaka, Japan
WS20-21-P	Single-cell RNA sequencing analysis for the differentiation pathway of arthritis-associated
	osteoclastogenic macrophages
	 Tomoya Agemura, Junichi Kikuta, Masaru Ishii Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University

WS21-10-P

December 8 WS21 Molecular and cellular diversity of allergic diseases (II) Tigit mediates activation-induced cell death of ILC2s WS21-01-O/P ○ Toshiki Yamada^{1, 2)}, Akane Fuchimukai¹⁾, Megumi Tatematsu¹⁾, Shunsuke Takasuga¹⁾, Hideyuki Yoshida³⁾, Kazuko Shibuya⁴⁾, Akira Shibuya^{4, 5)}, Takashi Ebihara¹⁾ ¹⁾Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾Department of Otorhinolaryngology-Head and Neck Surgery, Akita University Graduate School of Medicine, ³¹YCI Laboratory for Immunological Transcriptomics, RIKEN Center for Integrative Medical Sciences, ⁴⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, ⁵⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba WS21-02-O/P Lung local IL-7 affect the maintenance, distribution, and activation of ILC2 in allergic airway inflammations O Daichi Takami, Shinya Abe, Akihiro Shimba, Koichi Ikuta Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan WS21-03-O/P The role of local Th2 activation in the development of allergic rhinitis O Sava Tezuka, Kazufumi Matsushita, Etsushi Kuroda Department of Immunology, Hyogo Medical University, Hyogo, Japan WS21-04-O/P The role of IL-13 on dendritic cells is critical for type 2 immune responses Yasuvo Harada, Masato Kubo Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan WS21-05-O/P The anti-allergic effects of short chain fatty acids and niacin targeting IgE-dependent mast cell activation via modulating GPCR-signaling of EP3 and GPR109A, and by epigenetic regulation Daisuke Ando¹¹, Kazuki Nagata¹¹, Tsubasa Ashikari¹¹, Kandai Ito¹¹, Naoto Ito¹¹, Makoto Arita².³³, Chiharu Nishiyama¹¹ 1)Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan, 2)Graduate School of Pharmaceutical Sciences, Keio University, Tokyo, Japan, ³⁾RIKEN Center for Integrative Medical Science, Kanagawa, Japan Development of a murine model for oral allergy syndrome to identify IgE cross-reactive pollen and food WS21-06-O/P ○ Risa Yamamoto^{1, 2)}, Anna Kamei^{1, 3)}, Kumi Izawa¹⁾, Tomoaki Ando¹⁾, Ayako Kaitani¹⁾, Akie Maehara¹⁾, Yasuharu Kume^{1, 4)}, Hexing Wang^{1, 3)}, Koji Tokushige^{1, 3)}, Nobuhiro Nakano¹⁾, Ko Okumura¹⁾, Jiro Kitaura¹⁾ ¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Tokyo, Japan, ²⁾Juntendo University School of Medicine (5th year medical student), Tokyo, Japan, ³⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine, Tokyo, Japan, ⁴⁾Department of Ophthalmology, Juntendo University Urayasu Hospital, Chiba, Japan WS21-07-O/P The kappa opioid alleviates the OVA-induced food allergy via the brain-qut axis and immunomodulation ○ Kazuki Nagata¹⁾, Hiroshi Nagase²⁾, Chiharu Nishiyama¹⁾ ¹⁾Department of Biological Science and Technology, Tokyo University of Science, Tokyo, Japan. ²⁾University of Tsukuba, IIIS Difamilast, a selective phosphodiesterase 4 inhibitor, suppresses IL-4 production by basophils and WS21-08-O/P ameliorates atopic dermatitis in a murine model ○ Kazufusa Takahashi^{1, 2)}, Kensuke Miyake¹⁾, Junya Ito¹⁾, Hinano Shimamura^{1, 3)}, Hajime Karasuyama¹⁾ ¹⁾Inflammation, Infection, Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, ²⁾Depertment of Human Pathology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), Tokyo, Japan, 3) Depertment of Medical Science, Graduate School of Medical Sciences, Kitasato University, Kanagawa, Japan WS21-09-O/P miR-451a suppresses delayed-type hypersensitivity by regulating Th17 differentiation ○ Takanobu Yoshida^{1, 2)}, Ken Takashima¹⁾, Hiroyuki Oshiumi¹⁾

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O Masaya Matsuda, Asuka Hirano, Fumiya Yonezawa, Kazuvuki Kitatani, Takeshi Nabe

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asthma model

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Effect of subcutaneous immunotherapy on proliferation of group 2 innate lymphoid cells (ILC2) in an

WS21-11-P	Soluble TIM-4 levels in serum are associated with severe asthma phenotype
W321*11*F	Yuki Tanabe ^{1, 2)} , Hisaya Akiba ¹⁾ , Norihiro Harada ²⁾ , Sonoko Harada ^{2, 3)} , Kazuhisa Takahashi ²⁾ , Sachiko Miyake ¹⁾ The partment of Immunology, Juntendo University School of Medicine, Tokyo, Japan, Department of Respiratory Medicine, Juntendo University School of Medicine, Tokyo, Japan, Apan, Apa
WS21-12-P	The inhibition of OVA-induced airway hyperresponsiveness and eosinophilic airway inflammation in tight
	junction protein claudin-3-deficient mice
	○ Yumiko Ishii¹¹, Ayaka Shiota¹¹, Keiko Kan-O¹¹, Tomohiro Ogawa¹¹, Norio Yamamoto¹¹, Seiji Shinozaki¹¹, Aimi Ogawa¹¹, Satoru Fukuyama¹¹, Koichiro Matsumoto²¹, Isamu Okamoto¹¹ ¹¹Department of respiratory medicine, Graduate school of medical science, Kyushu university, ²¹Department of medicine, Division of oral and medical management, Fukuoka dental college
WS21-13-P	Nematode ascarosides attenuate mammalian type 2 inflammatory responses
	Masahiro Kiuchi, Kota Kokubo, Atsushi Onodera, Kiyoshi Hirahara, Toshinori Nakayama Department of Immunology, Graduate School of Medicine, Chiba University
WS21-14-P	TRPA1 channel mediates cold air-induced aggravation of airway inflammation
	O Yoichi Dotake, Takahiro Matsuyama, Hiromi Matsuyama, Koichi Takagi, Kentaro Machida, Hiromasa Inoue Department of Pulmonary Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan
WS21-15-P	Wdfy4 promotes antigen-specific IgE production in allergic asthma models
	 Yusuke Murakami, Tomoya Narita, Takashi Ishii, Naomi Yamashita Faculty of Pharmacy, Department of Pharmaceutical Sciences, Musashino University, Tokyo, Japan
WS21-16-P	Confirmation of the inhibitory effect of P2Y6 receptor antagonist on allergic reaction
	O Manabu Nakano ^{1,2)} Department of Bioscience and Laboratory Medicine, Hirosaki University Graduate School of Health Sciences, ² Research Center for Biomedical Sciences, Hirosaki University Graduate School of Health Sciences
WS21-17-P	A role of eosinophils in oral tolerance for food allergy
	Shunjirou Kurihara, Masaya Yokota, Kotaro Suzuki, Takahiro Kageyama, Kazuyuki Meguro, Shigeru Tanaka, Arifumi Iwata, Akira Suto, Hiroshi Nakajima Department of Allergy and Clinical Immunology, Graduate School of Medicine Chiba University
WS21-18-P	Detection of migration of IgE⁺ cells from draining lymph node after skin sensitization
	Mayuko Hashimoto ¹⁾ , Yutaka Kusumoto ¹⁾ , Takahiro Adachi ²⁾ , Michio Tomura ¹⁾ Laboratory of Immunology Faculty of Pharmacy, Osaka Ohtani University, Osaka, Japan, ²⁾ Medical Research Institute Pathophysiology Immunology, Tokyo Medical and Dental University, Tokyo, Japan
WS21-19-P	An isolated living environment suppresses papain-induced asthma
	Takuya Yashiro ¹⁾ , Kazuyo Moro ^{1,2)} Takuya Yashiro ^{1,2)} , Yashiro ^{1,2)} Takuya Yashiro ^{1,2} Takuya Yashiro ^{1,2)} Takuya
WS21-20-P	Environmental enrichment suppresses skin allergic inflammation in mice
	○ Yuki Fujita ^{1, 2)} , Hitoshi Urakami ¹⁾ , Kei Nagao ^{1, 2)} , Atsunori Kamiya ¹⁾ , Sachiko Miyake ²⁾ , Soichiro Yoshikawa ^{1, 2)} Department of Cellular Physiology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ²⁾ Department of Immunology, Juntendo University Graduate School of Medicine
WS21-21-P	Adaptive discrimination between harmful and harmlss antigens in immune system based on
	mathematical modeling
	 Kana Yoshido¹⁾, Naoki Honda^{1, 2, 3)} ¹⁾Graduate School of Biostudies, Kyoto University, ²Graduate School of Integrated Sciences for Life, Hiroshima University, ³Exploratory Research Center on Life and Living Systems (ExCELLS), National Institutes of Natural Sciences

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WS22 Hematopoiesis and Immune Environment Critical role of N^6 -methyladenosine modification deposited by METTL16 in hematopoiesis WS22-01-O/P ○ Masanori Yoshinaga¹⁾. Michael C Bassik²⁾. Osamu Takeuchi¹⁾ ¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾Department of Genetics, Stanford University WS22-02-O/P Tracing the evolutionary history of T cells back to invertebrates ○ Yosuke Nagahata¹⁾, Ryota Kaitani¹⁾, Yutaka Satou²⁾, Hiroshi Kawamoto¹⁾ ¹⁾Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, ²⁾Department of Zoology, Graduate School of Science, Kyoto University WS22-03-O/P Akkermansia muciniphila induces chronic extramedullary hematopoiesis through innate immune signals Yuxin Wang^{1,2)}, Tatsuya Morishima^{1,3)}, Maiko Sezaki^{1,3)}, Ryo Sato¹⁾, Gaku Nakato⁴⁾, Shinji Fukuda^{4,5,6)}, Yuhua Li^{2,7)}, Hitoshi Takizawa^{1, 8)} ¹⁾Laboratory of Stem Cell Stress, International Research Center for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, ²⁾Zhujiang Hospital, Southern Medical University, Guangzhou, China. 3 Laboratory of Hematopoietic Stem Cell Engineering, IRCMS, Kumamoto University. Kumamoto, 4 Gut Environmental Design Group, Kanagawa Institute of Industrial Science and Technology, Kanagawa, 5 Institute for Advanced Biosciences (IAB), Keio University, Tokyo, ⁶⁾Transborder Medical Research Center, University of Tsukuba, Ibaraki, ⁷⁾Bioland Laboratory (Guangzhou Regenerative Medicine and Health Guangdong Laboratory), Guangzhou, Guangdong, China, 8)Center for Metabolic Regulation of Healthy Aging (CMHA), Kumamoto University, Kumamoto WS22-04-O/P Single cell genomics revealed critical molecules affecting cell fate of human stem/progenitor cells ○ Makoto Iwasaki^{1,2)}, Joachim Luginguhehl¹⁾, Yoriko Saito¹⁾, Ari Itoh-Nakadai¹⁾, Leonard Shultz³⁾, Akifumi Takaori-Kondo²⁾, Jay Shin¹⁾, Fumihiko Ishikawa¹⁾ ¹⁾RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾Department of Hematology and Oncology, Kyoto University, Kyoto, Japan, ³⁾The Jackson Laboratory, Bar Harbor, ME Novel insights into heterogeneity of embryo-derived B cells divided two distinct subsets in adulthood WS22-05-O/P Ckeiko Fujisaki¹⁾, Nanako Okamoto^{1, 2)}, Aika Otaki¹⁾, Yuhei Mizunoe¹⁾, Shogo Okazaki³⁾, Chiharu Nishiyama²⁾, Ryo Goitsuka1) ¹⁾Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Laboratory of Molecular Biology and Immunology, Department of Biological Science and Technology, Tokyo University of Science, ³⁾Department of Microbiology, Nihon University School of Dentistry WS22-06-O/P The function of Polycomb group proteins during B cell development Mayumi Hirakawa, Tomokatsu Ikawa Tokyo University of Science Research Institute for Biomedical Sciences Division of Immunology and allergy BCR-ABL-induced senescence-associated autophagy bring about maintenance of CML stemness WS22-07-O/P ○ Yamato Tanabe¹⁾, Makoto Kurachi¹⁾, Tomohisa Baba²⁾, Naofumi Mukaida²⁾ ¹⁾Department of Molecular Genetics, kanazawa University, ²⁾Cancer Research Institute, Kanazawa University WS22-08-O/P Runx1 and Runx2 inhibit fibrotic conversion of cellular niches for hematopoietic stem cells O Yoshiki Omatsu, Takashi Nagasawa Graduate School of Frontier Biosciences, Osaka University WS22-09-O/P Distinct binding properties of integrin adaptors talin1 and kindlin-3 to LFA1 and α 4 integrins modulate adhesive responses in static and shear-flow conditions O Naoyuki Kondo, Yuji Kamioka, Yoshiki Ikeda, Yoshihiro Ueda, Tatsuo Kinashi Kansai Medical University WS22-10-O/P The role of isolated CD35⁺ follicular dendritic cells in the differentiation from B cells to IqA⁺ GL7⁺ cells

Mari Hikosaka-Kuniishi, Toshiyuki Yamane, Doris Narki Tetteh, Hidetoshi Yamazaki Department of Stem Cell and Developmental Biology, Mie University Graduate School of Medicine

WS22-11-P	5-aminolevulinic acid (5-ALA) synthesis deficient mice display an immune abnormality and reduced cytokine release
	 Shinichi Saitoh, Yuji Takeda, Saima Sabrina, Mikako Nagashima, Hironobu Asao Department of Immunology, Yamagata University Faculty of Medicine
WS22-12-P	GATA4 enhances cGAS-STING-dependent production of type I interferons in lupus monocytes
WS22-13-P	Novel cell fraction of myeloid leukemia in <i>Tet2</i> -deficient mice discovered by single-cell analysis
	Yurina Miyajima ¹⁾ , Erina Furuhata ¹⁾ , Tomohiro Miyai ²⁾ , Harukazu Suzuki ¹⁾ ¹⁾ Laboratory for Cellular Function Conversion Technology, RIKEN IMS, Yokohama, Japan, ²⁾ Laboratory for Developmental Genetics, RIKEN IMS, Yokohama, Japan
WS22-14-P	T-cell progenitors retain Mast-cell potential
	 Ryota Kaitani, Yosuke Nagahata, Hiroshi Kawamoto Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto university
WS22-15-P	Novel mechanisms for the regulation of <i>Irf8</i> gene expression during dendritic cell differentiation Takaya Yamasaki, Akira Nishiyama, Tomohiko Tamura Department of Immunology, Yokohama City University Graduate School of Medicine, Yokohama, Japan
WS22-16-P	The Regnase-1/3-Nfkbiz axis controls hematopoietic lineage priming
	Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Daisuke Ori ²⁾ , Masaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Miyazaki Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Osamu Takeuchi ¹⁾ Takuya Uehata ¹⁾ , Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Hiroshi Kawamoto ³⁾ , Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Hiroshi Kawamoto ³⁾ , Hiroshi Kawamoto ³⁾ , Hiroshi Kawamoto ³⁾ , Miyazaki ³⁾ , Hiroshi Kawamoto ³⁾ , Hiroshi K
WS22-17-P	Subsecond Rap1 activation by outside-in signaling of LFA1/ICAM1 interactions strengthens L-selectin mediated rolling of T cells
	 Yuji Kamioka, Yoshihiro Ueda, Naoyuki Kondo, Yoshiki Ikeda, Tatsuo Kinashi Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University, Osaka, Japan
WS22-18-P	Analysis of various human immune responses by applying the human-type artificial lymphoid tissues Yuka Kobayashi, Takeshi Watanabe, Hiroshi Kawamoto Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan
WS22-19-P	Micro- and macro-anatomical frameworks of lymph nodes for filtering lymph-borne substances Tomoya Katakai, Madoka Ozawa, Shihori Nakajima Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences
WS22-20-P	Hepatic ILC1s Lacking IL-7 receptor Arise Independently of Conventional Group 1 ILCs through Parenchymal Niches
	 Takuma Asahi, Koichi Ikuta Laboratory of Immune Regulation, Department of Virus Research, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan
WS22-21-P	Embryo-derived innate-like B cells expressing the J-chain in cardiac fat-associated lymphoid clusters
	O Nanako Okamoto ^{1, 2)} , Keiko Fujisaki ¹⁾ , Yuhei Mizunoe ¹⁾ , Shogo Okazaki ³⁾ , Chiharu Nishiyama ²⁾ , Ryo Goitsuka ¹⁾ Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾ Laboratory of Molecular Biology and Immunology, Department of Biological Science and Technology, Tokyo University of Science, ³⁾ Department of Microbiology, Nihon University School of Dentistry
WS22-22-P	Cartilage-degrading cells in the primary ossification center contributes to perinatal bone marrow development
	○ Eriko Sumiya, Shinichiro Sawa

Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

WS22-23-P	Neural crest-derived mesenchymal cells support thymic regeneration after lethal irradiation Doris Narki Tetteh, Hidetoshi Yamazaki, Mari Hikosaka-Kuniishi Stem Cell and Developmental Biology, Mie University Graduate School of Medicine, Japan
W/500 04 D	
WS22-24-P	Dynamic kinetics of fibroblasts during acute oesophageal inflammation Kentaro Iwata ¹⁾ , Yuya Hagihara ²⁾ , Yoshiaki Takada ¹⁾ , Rino Ishihara ¹⁾ , Yohei Mikami ¹⁾ , Takanori Kanai ¹⁾ Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan., ²⁾ National Hospital Organization Saitama Hospital, Saitama, Japan
WS22-25-P	Evolution of thymic involution through the lens of learning theory
	Shuhei Horiguchi ¹⁾ , Tetsuya Kobayashi ²⁾ ¹⁾ Graduate School of Information Science and Technology, The University of Tokyo, Tokyo, Japan, ²⁾ Institute of Industrial Science, The University of Tokyo, Tokyo, Japan
Decembe	er 9
WS23 Hu	man Immunology (Immunointervention)
WS23-01-O/P	An atlas of transcribed enhancers across helper T cell diversity for decoding human diseases
	○ Akiko Oguchi ^{1, 2)} , Akari Suzuki ³⁾ , Shuichiro Komatsu ¹⁾ , Chikashi Terao ^{4, 5, 6)} , Kazuhiko Yamamoto ³⁾ , Yasuhiro Murakawa ^{1, 7, 8, 9)}
	¹⁾ RIKEN-IFOM Joint Laboratory for Cancer Genomics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾ Department of Nephrology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ³⁾ Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁴⁾ Laboratory for Statistical and Translational Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁵⁾ Clinical Research Center, Shizuoka General Hospital, Shizuoka, Japan, ⁶⁾ Department of Applied Genetics, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan, ⁷⁾ IFOM - the FIRC Institute of Molecular Oncology, Milan, Italy., ⁸⁾ Institute for the advanced study of human biology, Kyoto University, Kyoto, Japan, ⁹⁾ Department of Medical Systems Genomics, Graduate School of Medicine, Kyoto University, Kyoto, Japan
WS23-02-O/P	Mechanisms of impaired hematopoiesis caused by the IKZF1 ^{N159S} variant
	 Jingjie Chang, Kazuki Okuyama, Junji Harada, Chengcheng Zou, Ichiro Taniuchi Integrative Medical Sciences (IMS), RIKEN, Yokohama, Japan
WS23-03-O/P	Actively transcribed regulatory regions drive the genetic risk of rheumatoid arthritis
	○ Hiroaki Hatano¹¹, Akari Suzuki²¹, Matteo Guerrini²¹, Michihiro Kono¹¹, Masahiro Nakano²¹, Akiko Oguchi³¹, Chikashi Terao⁴¹, Yasuhiro Murakawa³¹, Kazuhiko Yamamoto²¹, Kazuyoshi Ishigaki¹¹ ¹¹Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ²¹Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ³¹Joint Laboratory for Cancer Genomics, RIKEN Center for Integrative Medical Sciences RIKEN-IFOM, Yokohama, Kanagawa, Japan, ⁴¹Laboratory for Statistical and Translational Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan
WS23-04-O/P	Establishment of human immune system mice for evaluation of rejection of HLA-depleted cells in
	regenerative medicine
	Charlotte Flahou ¹⁾ , Natsumi Higashi ¹⁾ , Huaigeng Xu ¹⁾ , Akitsu Hotta ¹⁾ , Bo Wang ²⁾ , Shin Kaneko ²⁾ , Tatsuya Morishima ³ Hitoshi Takizawa ³⁾ , Koji Eto ^{1,4)} , Naoshi Sugimoto ¹⁾
	¹⁾ Department of Clinical Application, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan, ²⁾ Department of Cell Growth and Differentiation, Center for iPS Cell Research and Application (CiRA), Kyoto University, Kyoto, Japan, ³⁾ International Research Cente for Medical Sciences (IRCMS), Kumamoto University, Kumamoto, Japan, ⁴⁾ Department of Regenerative Medicine, Chiba University Graduate School of Medicine, Chiba, Japan
WS23-05-P	A novel ischemic infraction model using humanized NOG-IL-34 Tg mouse
	○ Ikumi Katano, Takeshi Takahashi, Mamoru Ito CIEA
WS23-06-P	Generation of the novel humanized mice with hemophilia A
	Akihisa Oda ¹⁾ , Masahiro Kitabatake ²⁾ , Noriko Ouji-Sageshima ²⁾ , Shoko Furukawa ¹⁾ , Takeshi Kawamura ¹⁾ , Toshikazu Takahashi ³⁾ , Toshihiro Ito ²⁾ , Keiji Nogami ¹⁾

Animals

¹⁾Department of Pediatrics, Nara Medical University, ²⁾Department of Immunology, Nara Medical University, ³⁾Central Institute for Experimental

WS23-07-P

Analysis of the effect of baricitinib on acute lung injury induced by selective human CD25 stimulation in humanized mice

Shin-Ya Tamechika, Shinji Maeda, Shuntaro Isogai, Tomoyo Maeda, Taio Naniwa, Akio Niimi
Department of Respiratory Medicine, Allergy and Clinical Immunology, Nagoya City University School Medical Sciences, Nagoya City, Japan

WS23-08-O/P

Pathogenic analysis of the idiotypic multicentric Casthleman disease (iMCD)

— Aberrant immunoregulatory disorder revealed by the iMCD model mice which was transplanted with patient's lymph mode cells —

○ Kazuyuki Yoshizaki¹⁾, Yoshikane Kikushige²⁾, Takuya Harada²⁾, Kazuko Uno³⁾, Mitunori Kaneko⁴⁾, Hiroaki Niiro⁵⁾, Kouichi Akashi⁵⁾

¹⁾SANKEN Osaka University, Osaka, Japan, ²⁾Kyushu University Hospital, Fukuoka, Japan, ³⁾Louis Pasteur Medical Research center, Kyoto, Japan, ⁴⁾Suita Tokusyukai Hospital, Osaka, Japan, ⁵⁾Kyushu University, Fukuoka, Japan

WS23-09-O/P

Fab fragments against human IgE C_E2 inhibit the binding of IgE to its receptors

O Hexing Wang¹⁾, Tomoaki Ando¹⁾, Toshiaki Maruyama²⁾, Cj Okumura²⁾, Kumi Izawa¹⁾, Ayako Kaitani¹⁾, Yasuharu Kume¹⁾, Koji Tokushige^{1, 3)}, Nobuhiro Nakano¹⁾, Keiko Maeda¹⁾, Ko Okumura¹⁾, Jiro Kitaura^{1, 3)}

¹⁾Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine (Tokyo, Japan), ²⁾Abwiz Bio Inc. (CA, USA), ³⁾Department of Science of Allergy and Inflammation, Juntendo University Graduate School of Medicine (Tokyo, Japan)

WS23-10-O/P

Innate IgE exacerbates allergic disease via amplification of ILC2 activation

Yasutaka Motomura^{1, 2, 3)}, Yohei Maeda⁴⁾, Masaki Hayama⁴⁾, Kazuyo Moro^{1, 2, 3)}

¹⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ²⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC), ³⁾Laboratory for Innate Immune Systems, RIKEN IMS, Kanagawa, Japan, ⁴⁾Department of Otorhinolaryngology-Head and Neck surgery, Graduate School of Medicine, Osaka University, Osaka, Japan

WS23-11-O/P

Withdrawn

WS23-12-P

Transition of antibody titers after the SARS-CoV-2 mRNA vaccine in Japanese healthcare workers

Masahiro Kitabatake, Noriko Ouji-Sageshima, Ryutaro Furukawa, Atsushi Hara, Toshihiro Ito Department of Immunology, Nara Medical University, Nara, Japan

WS23-13-O/P

Quantitative and qualitative differences in HBc-specific CD8 T cells could impact the level of HBsAg in Hepatitis B patients

○ Shokichi Takahama¹⁾, Sachiyo Yoshio²⁾, Hirotomo Murakami^{1,3)}, Hirofumi Akita^{1,4)}, Takuto Nogimori¹⁾, Shun Kaneko⁵⁾, Masayuki Kurosaki⁵⁾, Yasuhiro Asahina⁶⁾, Ryotaro Sakamori⁷⁾, Tetsuo Takehara⁷⁾, Tatsuya Kanto²⁾, Takuya Yamamoto^{1,4,8,9)}

¹⁾Laboratory of Immunosenescence, Center for Vaccine and Adjuvant Research, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾Department of Liver Diseases, Research Center for Hepatitis and Immunology, National Center for Global Health and Medicine, Tokyo, Japan, ³⁾Department of Gastroenterological Surgery, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴⁾Laboratory of Translational Cancer Immunology and Biology, Next-generation Precision Medicine Research Center, Osaka International Cancer Institute, Osaka, Japan, ⁵⁾Department of Gastroenterology and Hepatology, Musashino Red Cross Hospital, Tokyo, Japan, ⁶⁾Department of Liver Disease Control, Tokyo Medical and Dental University, Tokyo, Japan., ⁷⁾Department of Gastroenterology and Hepatology, Osaka University Graduate School of Medicine, Osaka, Japan., ⁸⁾The Research Institute for Microbial Diseases, Osaka University, Osaka, Japan., ⁹⁾Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan.

WS23-14-P

Naïve CD4 T cells expressing a high level of CXCR3 increase with age and radiation exposure in atomicbomb survivors

○ Kengo Yoshida¹⁾, Munechika Misumi²⁾, Waka Ohishi³⁾, Tomonori Hayashi¹⁾, Yoichiro Kusunoki¹⁾

¹⁾Department of Molecular Biosciences, Radiation Effects Research Foundation, Hiroshima, ²⁾Department of Statistics, Radiation Effects Research Foundation, Hiroshima, ³⁾Department of Clinical Studies, Radiation Effects Research Foundation, Hiroshima

WS23-15-P	Deep immune correlates of COVID-19 disease progression and outcome
	 David Priest¹, Janyerkye Tulyeu², Jonas Sondergaard², Yuki Togami³, Yumi Mitsuyama⁴, Takeshi Ebihara³, Hisatake Matsumoto³, Hiroshi Ogura³, James Wing^{1, 2}
	¹⁾ Laboratory of Human Single Cell Immunology WPI-IFReC, OSAKA UNIVERSITY, Japan, ²⁾ Human Immunology Group, CiDER, OSAKA
	UNIVERSITY, Japan, ³⁾ Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, Japan, ⁴⁾ Division of Trauma and Surgical Critical Care, Osaka General Medical Center, Japan
WS23-16-P	The dominant immune mechanism for Long-COVID differs in gender
	¹⁾ Department of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾ Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University, Kyoto, Japan, ³⁾ Department of Respiratory Medicine, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ⁴⁾ Laboratory of Medical Virology, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, ⁵⁾ Hirahata Clinic, Tokyo, Japan
December	9
WS24 Tolera	nce and Immune suppression-2
WS24-01-O/P	PD-1 agonism by anti-CD80 inhibits T cell activation and alleviates autoimmunity
	Oaisuke Sugiura ¹⁾ , II-Mi Okazaki ¹⁾ , Takumi Maruhashi ¹⁾ , Kenji Shimizu ¹⁾ , Naozumi Ishimaru ²⁾ , Taku Okazaki ¹⁾ Daisuke Sugiura ¹⁾ , II-Mi Okazaki ¹⁾ , Takumi Maruhashi ¹⁾ , Kenji Shimizu ¹⁾ , Naozumi Ishimaru ²⁾ , Taku Okazaki ¹⁾ Naozumi Ishimaru ²⁾ , Taku Okazaki ¹⁾ Molecular Pathology, Graduate School of Biomedical Sciences, Tokushima University, Tokushima, Japan
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WS24-02-O/P	CD45 modulation augments CD8 T cell energy metabolism and function in aged mice, reverting resistance to PD-1 blockade cancer immunotherapy
	Sara Delghandi ¹⁾ , Kenji Chamoto ¹⁾ , Yuka Nakajima ¹⁾ , Hidetaka Kosako ²⁾ , Tasuku Honjo ¹⁾
	¹⁾ Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, ²⁾ Division of Cell Signaling, Fujii Memorial Institute of Medical Sciences, Tokushima University
WS24-03-P	PD-1 is responsible for the control of Th2 responses and allergic gastritis
	O Naoko Ikuta ³⁾ , Masaki Tajima ⁴⁾ , Yukako Kamita ³⁾ , Hiroshi Hiai ¹⁾ , Tasuku Honjo ²⁾ , Akio Ohta ³⁾
	¹⁾ Kyoto Disease Model Institute, Kyoto, Japan., ²⁾ Department of Immunology and Genomic Medicine, Graduate School of Medicine, Kyoto University, Kyoto, Japan., ³⁾ Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe, Kobe, Japan., ⁴⁾ Integrated High-Order Regulatory Systems Division, Center for Cancer Immunotherapy and Immunobiology (CCII), Graduate School of Medicine, Kyoto University, Kyoto, Japan
WS24-04-P	PD-1 is required for the suppression of inflammatory responses in aged mice
	○ Yoshiro Osaki
	Nara Institute of Science Technology Nara Japan
WS24-05-O/P	A novel allergen-specific anergic T cell therapy induced by the blockade of T cell co-stimulation
	○ Yui Maehara ¹⁾ , Kazuyoshi Takeda ^{1, 2, 3)} , Koichiro Uchida ³⁾ , Ko Okumura ^{1, 3, 4)}
	¹⁾ Department of Biofunctional Microbiota, Juntendo University, ²⁾ Laboratory of Cell Biology, Research Support Center, Graduate School of Medicine, Juntendo University, ³⁾ Center for Immune Therapeutics and Diagnosis, Juntendo Advanced Research Institute for Health Science, Juntendo University, ⁴⁾ Atopy (Allergy) Research Center, Graduate School of Medicine, Juntendo University
WS24-06-P	Extra loop of LAG-3 is dispensable for its inhibitory function
	 Taisuke Narazaki, Daisuke Sugiura, Takumi Maruhashi, II-Mi Okazaki, Kenji Shimizu, Taku Okazaki Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo, Tokyo, Japan
WS24-07-P	Stable pMHCII serves as the ligand of LAG-3 to trigger its inhibitory function
	 Takumi Maruhashi, Daisuke Sugiura, II-Mi Okazaki, Kenji Shimizu, Taku Okazaki Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo, Tokyo, Japan
WS24-08-P	VSIG4/CRIg, a new B7 family ligand, directly regulates early CD8 ⁺ T cell activation through its counter-
	receptor in a narrow window

¹⁾Department of Molecular Immunology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan, ²⁾Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan

○ Amrita Widyagarini¹¹, Yohei Kawano²), Chenyang Zhang¹¹, Miyuki Azuma¹¹

WS24-09-O/P	Identification and binding analysis of novel receptors for HLA-G2
	Hiroshi Watanabe, Kimiko Kuroki, Katsumi Maenaka Faculty of Pharmaceutical Science, Hokkaido University, Sapporo, Japan
WS24-10-O/P	Abrogation of self-tolerance by self-antigen complexed with MHC class II molecules
	O Hui Jin ¹⁾ , Hisashi Arase ^{1, 2)} 1) Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²⁾ Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan
WS24-11-O/P	Induction of Regulatory T Cells by Ubiquitinated MHC II
	 Yuko Kozono, Fan Baicheng, Haruo Kozono Research Institute for Biomedical Sciences, Tokyo University of Sciences, Noda, Chiba, Japan
WS24-12-P	The role of Fcrl5 in autoimmune disease Chisato Ono ¹⁾ , Yuta Kochi ²⁾ , Shinya Tanaka ¹⁾ , Kazuhiko Yamamoto ³⁾ , Yoshihiro Baba ¹⁾ Division of Immunology and Genome Biology, Department of Molecular Genetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, Department of Genomic Function and Diversity, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, RIKEN Center for Integrative Medical Sciences, Kanagawa, Japan
WS24-13-P	Cell death-deficient mice develop T cell exhaustion
	○ Takao Seki¹¹, Shion Miyoshi²¹, Kenta Moriwaki¹¹, Soh Yamazaki¹¹, Hiroyasu Nakano¹¹ ¹¹Department of Biochemistry, Toho University School of Medicine, Tokyo, Japan, ²¹Department of Respiratory Medicine, Toho University Graduate School of Medicine, Tokyo, Japan
WS24-14-P	Effects of localization changes of caveolin-1 on Nrf2-HO-1 activation induced by quercetin
	○ Fuzuki Hayashi ¹⁾ , Miyoko Matsushima ²⁾ , Hikaru Tsuzuki ²⁾ , Moeko Ohara ²⁾ , Nodoka Shimasaki ²⁾ , Ayumi Tajima ²⁾ , Hinata Taniguchi ²⁾ , Hina Kawashima ¹⁾ , Sayaka Takagi ¹⁾ , Nanami Yoshida ¹⁾ , Tsutomu Kawabe ²⁾ ¹⁾ Department of Medical Technology, Nagoya University School of Health Sciences, Aichi, Japan, ²⁾ Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Aichi, Japan
WS24-15-O/P	IL-18 Regulates Immune Responses Contributing Placental Development and Fetal Growth
	O Hajime Ino ^{1, 2)} , Yumi Horii ^{1, 2)} , Yasuyuki Negishi ^{1, 2)} , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾ Department of Gynecology and Obstetrics, Nippon Medical School, Tokyo, Japan
WS24-16-P	Identification of a scavenger-inducing factor promoting inflammatogenic DAMP clearance
	O Kento Otani ^{1, 2)} , Jun Tsuyama ¹⁾ , Koji Hase ²⁾ , Takashi Shichita ¹⁾ ¹⁾ Stroke Renaissance Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, ²⁾ Keio University Graduate School of Pharmaceutical Sciences, Tokyo, Japan
WS24-17-O/P	CCR9 inhibition alters tissue distribution of plasmacytoid dendritic cells and leads to hepatic immune suppression
	 Yuzo Koda, Nobuhiro Nakamoto, Takanori Kanai Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine
WS24-18-P	Cardiac glycoside regulates immune cell migration by blocking protein-protein interaction between
	lysosomal Ragulator complex and Myosin phosphatase-RhoA interacting protein (MPRIP)
	Tatsunori Jo ^{1,2,3)} , Hyota Takamatsu ^{1,2,3)} , Atsushi Kumanogoh ^{1,2,3)}
	¹⁾ Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives, Osaka University, Suita, Osaka, Japan, ²⁾ Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Suita, Osaka, Japan, ³⁾ Department of Immunopathology, WPI, Immunology Frontier Research Center (iFReC), Osaka University, Suita, Osaka, Japan
WS24-19-O/P	AIRE leaves footprints on chromatin for immunological self-tolerance
	 Kenta Horie, Nobuko Akiyama, Taishin Akiyama Center for Integrative Medical Sciences, Riken, Yokohama, Japan
WS24-20-O/P	CXCR4 defines transit-amplifying cells of medullary thymic epithelial cells
	○ Tatsuya Ishikawa ^{1,2)} , Taishin Akiyama ^{1,2)} , Nobuko Akiyama ¹⁾ ¹⁾ RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾ Graduate School of Medical Life Science, Yokohama City University,

Yokohama, Japan

WS25 Cytokines and Chemokines-2

	the sand Chemokines-2
WS25-01-P	Involvement of chemokine receptor CCR4 in DSS-induced colitis model Tatsuma Honzawa ¹⁾ , Kazuhiko Matsuo ¹⁾ , Osamu Yoshie ²⁾ , Takashi Nakayama ¹⁾ Thindai University Faculty of Pharmacy, Higashi-osaka, Japan, The Health and Kampo Institute, Sendai, Japan
WS25-02-P	Identification of pathogenic Th17 cells in gastrointestinal tract using chemokine receptor deficient mice Shimpei Ariki, Sotaro Ozaka, Nozomi Sachi, Yomei Kagoshima, Thanyakorn Chalalai, Naganori Kamiyama, Takashi Kobayashi Department of Infectious Disease Control Faculty of Medicine, Oita University, Yufu, Japan
WS25-03-O/P	Lactococcus lactis subsp. Cremoris C60 restores T Cell Population in Small Intestinal Lamina Propria in Aged Interleukin-18 Deficient Mice Toshio Maekawa ^{1,2,3)} , Suguru Saito ^{3,4)} , Noriko Tsuji ^{1,2,3,5)} Noriko Tsuji ^{1,2,3,5)} Noriko Tsuji ^{1,2,3,5)} Research Inst., Ibaraki, Japan, Cellular and Molecular Engineering, Dept. Life Technology and Science, AIST, Dept. Dentistry, Faculty of Medicine and Dentistry, University of Alberta, Dept. Food Science, Jumonji University, Saitama, Japan
WS25-04-O/P	The source and function of soluble ST2 Pei-Chi Lo ¹⁾ , Yasutaka Motomura ^{1, 2, 3)} , Kazuyo Moro ^{1, 2, 3, 4)} Graduate School of Medicine, Osaka University, Osaka University Immunology Frontier Research Center (IFReC),, Graduate School of Frontier Biosciences, Osaka University, ARIKEN Center for Integrative Medical Sciences
WS25-05-O/P	Anti-IgE Ab treatment attenuates OVA-Ag-induced neutrophilic airway inflammation and IL-17 production in the lungs (Sazuyuki Nakagome ^{1, 2)} , Mitsuru Imamura ³⁾ , Masaaki Kawano ^{2, 4)} , Kimito Kawahata ³⁾ , Rie Takagi ^{2, 4)} , Hiroaki Harada ⁵⁾ , Sho Matsushita ^{2, 4)} , Makoto Nagata ^{1, 2)} (Department of Respiratory Medicine, Saitama Medical University, Saitama, Japan, Alergy Center, Saitama Medical University, Saitama, Japan, Division of Rheumatology and Allergology, Department of Internal Medicine, St Marianna University School of Medicine, Kanagawa., (Department of Allergy and Immunology, Saitama Medical University, Saitama, Japan, Department of Allergy and Rheumatology, Graduate School of Medicine, University of Tokyo, Tokyo, Japan
WS25-06-O/P	Suppression of itch sensation by IL-27 Daiji Sakata ¹ , Yusuke Nomoto ¹ , Masahiro Yamamoto ² , Chisa Nakashima ³ , Kenji Kabashima ³ , Hiroki Yoshida ⁴ , Takuro Kanekura ⁵ , Hiromitsu Hara ¹ 1 Laboratory of Immunology, Department of Infection and Immunity, Graduate School of Medical and Dental Sciences, Kagoshima University, Department of Immunoparasitology, Division of Infectious Disease, Research Institute for Microbial Diseases, Osaka University, Department of Dermatology, Graduate School of Medicine and Faculty of Medicine, Kyoto University, Laboratory of Immunology, Department of Biomolecular Sciences, Faculty of Medicine, Saga University, Department of Dermatology, Graduate School of Medical and Dental Sciences, Kagoshima University
WS25-07-P	CCR4 involvement in Th2 cell expansion in lymph nodes of atopic dermatitis model mice Kosuke Kitahata ¹⁾ , Kazuhiko Matsuo ¹⁾ , Osamu Yoshie ²⁾ , Takashi Nakayama ¹⁾ Kindai University, ²⁾ Health and Kampo Institute
WS25-08-P	IL-9 regulates Tfh cells to control humoral memory responses Taiki Sato ^{1, 2)} , Ippei Ikegami ¹⁾ , Masahiro Yanagi ¹⁾ , Shiori Kamiya ¹⁾ , Ryuta Kamekura ¹⁾ , Mihoko Ohashi ¹⁾ , Atsushi Watanabe ²⁾ , Shingo Ichimiya ¹⁾ Department of Human Immunology, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine, Department of Thoracic Surgery, Sapporo Medical University School of Medicine
WS25-09-O/P	Regulation and cell fate of CCR2 ⁺ inflammatory monocytes in the development of T cell-dependent autoimmune arthritis Hiroki Mukoyama ^{1,2} , Yusuke Takeuchi ^{1,2} , Daiya Ohara ¹ , Hitomi Watanabe ¹ , Gen Kondoh ¹ , Akio Morinobu ² , Keiji Hirota ¹

¹⁾Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, Kyoto, Japan, ²⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan

WS25-10-P	Reduced expression of CX3CR1 in CD14**CD16* peripheral monocytes is associated with immunological and clinical features of patients with systemic lupus erythematosus Keiko Yoshimoto¹¹, Katsuya Suzuki¹¹, Yumi Ikeda¹¹, Noriyasu Seki²¹, Kazuoto Hiramoto¹¹, Shuntaro Saito¹¹, Jun Kikuchi¹¹, Hironari Hanaoka¹¹, Kunio Sugahara²¹, Kenji Chiba²¹, Tsutomu Takeuchi¹¹, Yuko Kaneko¹¹ Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine, ²¹Research Unit/Immunology & Inflammation, Mitsubishi Tanabe Parma Corporation
WS25-11-P	Tocilizumab treatment of COVID-19, Castleman Disease and Rheumatoid Arthritis: blocking IL-6 improves pathology in immune diseases with a varying etiologies Kazuko Uno¹¹, Kazuyuki Yoshizaki¹¹.²², Toshio Tanaka³¹¹ Louis Pasteur Center for Medical Research, Kyoto, Japan, ²¹The Institute of Scientific and Industrial Research, SANKEN, Osaka University, Osaka, Japan, ³¹Kinki Central Hospital, Hyogo, Japan
WS25-12-O/P	Analysis of IL-6 secretion from synovial fibroblasts related to cell-to-cell interactions
	Haruka Takahashi ¹⁾ , Zhuohao Yang ²⁾ , Haruka Tsuchiya ¹⁾ , Risa Yoshihara ¹⁾ , Yumi Tsuchida ¹⁾ , Mai Yamagishi ^{2,3)} , Yoshitaka Shirasaki ²⁾ , Sotaro Uemura ⁴⁾ , Takashi Funatsu ²⁾ , Sakae Tanaka ⁵⁾ , Tomohisa Okamura ^{1,6)} , Keishi Fujio ¹⁾ Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²⁾ Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan, ³⁾ Live Cell Diagnosis, Ltd., Asaka, Japan, ⁴⁾ Department of Biological Sciences, Graduate School of Science, The University of Tokyo, Tokyo, Japan, ⁵⁾ Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ⁶⁾ Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan
WS25-13-O/P	Protective effect of Recombinant Human Thrombomodulin on Streptozotocin-induced diabetes
	Yuko Okano ¹⁾ , Chisa Inoue ¹⁾ , Valeria Fridman ²⁾ , Atsuro Takeshita ^{1,2)} , Kota Nishihama ¹⁾ , Taro Yasuma ^{1,2)} , Masaaki Toda ²⁾ , Corina Gabazza ²⁾ , Yutaka Yano ¹⁾ , Esteban Gabazza ²⁾ 1)Department of Diabetes and Endocrinology Mie University Hospital Mie Japan, ²⁾ Department of Immunology Mie University Mie Japan
WS25-14-P	Recombinant thrombomodulin ameliorates diabetes by inhibition of pancreatic β cell apoptosis
	Atsuro Takeshita ^{1, 2)} , Chisa Inoue ²⁾ , Yuko Okano ^{1, 2)} , Kota Nishihama ²⁾ , Taro Yasuma ^{1, 2)} , Valeria Fridman-D'Alessandro ¹⁾ , Masaaki Toda ¹⁾ , Corina N. D'Alessandro-Gabazza ¹⁾ , Yutaka Yano ²⁾ , Esteban Gabazza ¹⁾ "Mie University Graduate School of Medicine, Department of Immunology, "Mie University Hospital, Department of Diabetes and Endocrinology
WS25-15-O/P	DNAM-1 deficiency exacerbates Concanavalin A-induced acute liver injury through neutrophil infiltration
	O Soichi Matsuo ^{1, 2)} , Tsukasa Nabekura ^{3, 4)} , Akira Shibuya ^{1, 3, 4)} Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan, Doctoral Program in Medical Science, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan
WS25-16-O/P	Role of intrathrombotic CX3CR1-fractalkine axis during resolution on murine deep vein thrombosis model
	 Mizuho Nosaka, Yuko Ishida, Akihiko Kimura, Yumi Kuninaka, Naofumi Mukaida, Toshikazu Kondo Department of Forensic Medicine, Wakayama Medical University
WS25-17-O/P	CD122-selective IL/2/antilL-2 complex enhances the synergistic potentiation in the innate immunity and

memory T cells resulting strong anti-tumor effect

O Kanako Shimizu, Masami Kawamura, Shin-Ichiro Fujii RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

December 9

WS26 T Cell activation and responses (human and Vitro)

WS26-01-O/P Composition of the UBASH3A signalosome emphasizes its negative regulatory function in TCR signaling O Daiki Mori¹⁾, Bernard Malissen²⁾

¹⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, Osaka University, ²⁾Centre d'Immunologie de Marseille-Luminy, Aix-Marseille University

WS26-02-O/P	Regulation of the TNFR family co-signaling by TNF-related recombinant proteins Takanori So¹¹, Ayaka Sato¹¹, Hodaka Nagai¹¹, Mitsuki Azuma¹¹, Nagito Shibui¹¹, Wakana Imai¹¹, Masashi Morita¹¹, Naoto Ishii²¹
	¹⁾ Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, ²⁾ Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine
WS26-03-O/P	CD62L expression is regulated by the states of energy metabolism
	O Koji Kitaoka, Maiko Hajime, Yasuharu Haku, Kenji Chamoto, Tasuku Honjo Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School
WS26-04-O/P	Robust TCR signals control epigenetic conversion of conventional T cells to regulatory T cells through
	mTORC1-dependent expression of TET proteins
	○ Tomohide Kinoshita ¹⁾ , Mai Ohno ¹⁾ , Norihito Hayatsu ²⁾ , Reiko Ohnishi ²⁾ , Akira Nakajima ¹⁾ , Shohei Hori ^{1,2)} The proposition of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan, Papan, P
WS26-05-O/P	Dynamic B-pocket remodeling is a basis for HLA class I molecules to bind peptides and lipopeptides
	Minori Asa ^{1,2)} , Daisuke Morita ^{1,2)} , Masahiko Sugita ^{1,2)}
	¹⁾ Laboratory of Cell Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾ Laboratory of Cell Regulation and Molecular Network, Graduate School of Biostudies, Kyoto University
WS26-06-O/P	Binding of the CD4/CD8 coreceptor to an MHC molecule positively modulates CAR-T cell response
	○ Hiroaki Machiyama¹¹, Ei Wakamatsu¹¹, Arata Takeuchi¹¹, Hitoshi Nishijima¹¹, Masae Furuhata¹¹, Hiroko Toyota¹¹,
	Maksim Mamonkin ²⁾ , Malcolm K Brenner ²⁾ , Tadashi Yokosuka ¹⁾ Department of Immunology, Tokyo Medical University, Tokyo, Japan, ²⁾ Center for Cell and Gene Therapy, Baylor College of Medicine, Houston, TX, US
WS26-07-O/P	SCD2-mediated cooperative activation of IRF3-IRF9 regulatory circuit controls type I interferon transcriptome in CD4+ T cells
	○ Toshio Kanno, Yusuke Endo, Takahiro Nakajima Kazusa DNA Research Institute
WS26-08-O/P	Generation of CTLs from iPSCs transduced with TCR genes: development of "TCR cassette" method
	 Seiji Nagano¹⁾, Koji Terada²⁾, Yasutoshi Agata²⁾, Hiroshi Kawamoto¹⁾ ¹⁾Kyoto University, Kyoto, Japan, ²⁾Shiga University of Medical Science, Shiga, Japan
WS26-09-O/P	Analysis of HLA-class-I unrestricted T cell receptors obtained from tumor infiltrating lymphocytes of
	breast cancer patients
	Abdul Hayee, Satoshi Yamaguchi, Hiroshi Hamana, Kiyomi Shitaoka, Eiji Kobayashi, Tatsuhiko Ozawa, Ha Thi Viet My, Atsushi Muraguchi, Hiroyuki Kishi Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama
WS26-10-P	Dynamics of the PI3K signaling pathway through the cytosolic domain of ICOS
11320 101	○ Ei Wakamatsu, Hiroaki Machiyama, Hiroko Toyota, Masae Furuhata, Hitoshi Nishijima, Arata Takeuchi,
	Tadashi Yokosuka Department of Immunology, Tokyo Medical University, Tokyo, Japan
WS26-11-P	Regulation of OX40 co-signaling by OX40 ligand-mannose-binding lectin fusion protein
	Ayaka Sato ¹⁾ , Takanori So ¹⁾ , Mitsuki Azuma ¹⁾ , Hodaka Nagai ¹⁾ , Masashi Morita ¹⁾ , Yuko Okuyama ²⁾ , Naoto Ishii ²⁾ ¹⁾ Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, ²⁾ Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan
WS26-12-P	Activation of the TNFR co-signaling pathway by single-chain TNF-ligand recombinant proteins
	O Hodaka Nagai ¹⁾ , Takanori So ¹⁾ , Mitsuki Azuma ¹⁾ , Ayaka Sato ¹⁾ , Nagito Shibui ¹⁾ , Sayaka Ogawara ¹⁾ , Yuta Tsutsui ¹⁾ , Masashi Morita ¹⁾ , Naoto Ishii ²⁾ , Shimpei Matsuyama ¹⁾ , Ayano Suzuki ¹⁾

¹⁾Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, ²⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS26-13-P	Dissociation of LAG-3 Cluster from TCR-Microclusters by Immune Checkpoint Blockade
	☐ Takashi Saito, Akiko Hashimoto-Tane Lab. Cell Signaling, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan
WS26-14-P	SATB1-dependent mitochondrial ROS production controls TCR signaling in CD4 T cells Taku Kuwabara, Marii Ise, Taku Naito, Yuriko Tanaka, Motonari Kondo Department of Molecular Immunology, Toho University School of Medicine, Tokyo, Japan
WS26-15-P	Coccomyxa sp. KJ extracts affects the fate of T cells stimulated by toxic shock syndrome toxin-1, a
	superantigen secreted by <i>Staphylococcus aureus</i> Satoko Komatsu ¹ , Shino Ohshima ² , Hirofumi Kashiwagi ³ , Yumiko Goto ³ , Yusuke Ohno ² , Soga Yamada ² , Akiko Kanno ¹ , Tomoka Shimizu ² , Toshiro Seki ⁴ , Atsushi Yasuda ⁴ , Hitoshi Kuno ¹ , Yoshie Kametani ^{2,5} DENSO CORPORATION, Aichi, Japan, Department of Molecular Life Science, Division of Basic Medical Science, Tokai University School of Medicine, Kanagawa, Japan, Department of Obstetrics and Gynecology, Tokai University School of Medicine, Kanagawa, Japan, Department of Internal Medicine, Division of Nephrology, Endocrinology and Metabolism, Tokai University School of Medicine, Kanagawa, Japan, Institute of Advanced Biosciences, Tokai University, Kanagawa, Japan
WS26-16-P	Selection of highly responsive TCRs by analysis combining the expression of multiple markers on BW5147.3 T cells
	○ Thi Viet My Ha ¹¹, Hiroshi Hamana¹¹, Eiji Kobayashi¹¹, Ozawa Tatsuhiko¹¹, Son Tung Dang²¹, ABDUL Hayee¹¹, Hiroyuki Kishi¹¹ ¹¹Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, ²¹Department of Pathology, Faculty of Medicine, University of Toyama
WS26-17-P	A molecular basis for specific recognition of lipopeptides by TCRs
	Oaisuke Morita, Masahiko Sugita Lab. of Cell Regulation, Institute for Life and Medical Sciences, Kyoto university, Kyoto, Japan
WS26-18-P	A biomimetic five-module chimeric antigen receptor (^{5M} CAR) designed forantigen-specific therapy in type1 diabetes
	Shio Kobayashi ^{1,2)} , Martin A. Thelin ¹⁾ , Heather L. Parrish ²⁾ , Neha R. Deshpande ²⁾ , Mark S. Lee ²⁾ , Alborz Karimzadeh ¹⁾ , Monika A. Niewczas ^{3,4)} , Michael S. Kuhns ^{2,5,6,7)} , Thomas Serwold ¹⁾ ¹⁾ Section of Immunobiology, Research Division, Joslin Diabetes Center, Harvard Medical School, Boston, MA, USA, ²⁾ Department of Immunobiology, The University of Arizona College of Medicine, Tucson, AZ, USA, ³⁾ Harvard Catalyst – Biostatistical Consulting (Joslin Diabetes Center site), Boston, MA, USA, ⁴⁾ Section on Genetics and Epidemiology, Research Division, Joslin Diabetes Center, Harvard Medical School, Boston, MA, USA, ⁵⁾ The BIO-5 Institute, The University of Arizona College of Medicine, Tucson, AZ, USA, ⁵⁾ The Arizona Center on Aging, The University of Arizona College of Medicine, Tucson, AZ, USA, ⁵⁾ The University of Arizona Cancer Center, Tucson, AZ, USA
WS26-19-P	Development of a model to predict abatacept responsiveness in established RA by CD4+ Foxp3+
	regulatory T cell phenotype in peripheral blood Shuntaro Isogai, Shinji Maeda, Taio Naniwa, Akio Niimi Nagoya city University School Medical Sciences Department of Respiratory Medicine, Allergy and Clinical Immunology
WS26-20-P	Estimation of sensitization status in renal transplant recipients by assessing indirect pathway CD4+ T-cells response to donor cell-pulsed dendritic cell Kenta Iwasaki Department of Kidney Diseases and Transplant Immunology, Aichi Medical University School of Medicine
WS26-21-P	Rapid cloning of antigen-specific T-cell receptors by applying T cell <i>cis</i> -activation
	© Eiji Kobayashi ¹⁾ , Tatsuhiko Ozawa ¹⁾ , Kazuto Tajiri ²⁾ , Seisuke Kusano ³⁾ , Shigeyuki Yokoyama ³⁾ , Atsushi Muraguchi ¹⁾ , Hiroyuki Kishi ¹⁾ Department of Immunology, University of Toyama, Toyama, Japan, ²⁾ The Third Department of Internal Medicine, University of Toyama, Toyama, Japan, ³⁾ RIKEN Cluster for Science, Technology and Innovation Hub, Yokohama, Japan
WS26-22-P	Identification of T cells responding to mycobacterial lipids
	○ Yuki Sakai ^{1, 2)} , Xiuyuan Lu ^{1, 2)} , Yoshihiko Hoshino ³⁾ , Takashi Yoshiyama ⁴⁾ , Sho Yamasaki ^{1, 2)} ¹¹Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Osaka, Japan, ²¹Laboratory of Molecular Immunology, Immunology Frontier Research Center (iFReC), Osaka University, Suita, Osaka, Japan, ³¹Fukujuji Hospital, Japan Anti-Tuberculosis Association, Matsuyama, Kiyose, Tokyo, Japan., ⁴¹Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, Aoba, Higashi-Murayama, Tokyo, Japan

WS26	Effects of radiation exposure on the relationship between intracellular ROS of blood cells and immune- related cell frequencies in atomic bomb survivors
	○ Tomonori Hayashi¹¹, Naohiro Kato²¹, Keiko Furudoi³¹, Seishi Kyoizumi¹¹, Kyoji Furukawa⁴¹, Misa Imaizumi⁵¹, Ayumi Hida⁵¹, Waka Ohishif⁵¹ ¹¹Dept. Molecular Biosciences, RERF, ²¹Dept. Statistics, RERF, ³¹Biosample Research Center, RERF, ⁴¹Biostatistics Center, Kurume University,
	⁵⁾ Dept. Nagasaki Clinical Studies, ⁶⁾ Dept. Hiroshima Clinical Studies
WS26	High-throughput sequencing of the cancer patients' TCR repertoire at the single-cell level Hidetaka Tanno Tokyo Metropolitan Institute of Medical Science
Dece	mber 9
WS27	Tumor Microenvironment, Metabolism
WS27	Glucomannan Polysaccharide from Mycelia of <i>Agaricus blazei</i> Murrill Inhibits the Expression of Immune Checkpoint Molecules and Axl receptor
	→ Hajime Kobori ¹⁾ , Taro Yasuma ²⁾ , Masaaki Toda ²⁾ , Taira Ikeo ³⁾ , Jing Wu ³⁾ , Toshio Mori ³⁾ , Hirofumi Hirai ^{3, 4, 5)} , Hirokazu Kawagishi ³⁾ , Corina N. D'Alessandro-Gabazza ²⁾ , Esteban C. Gabazza ²⁾ ¹⁾ Iwade Research Institute of Mycology Co., Ltd, Tsu, Mie, Japan, ²⁾ Department of Immunology, Mie University School of Medicine, Tsu, Mie, Japan, ³⁾ Department of Applied Biological Chemistry, Faculty of Agriculture, Shizuoka University, Shizuoka, Japan., ⁴⁾ Research Institute of Green Science and Technology, Shizuoka University, Shizuoka, Japan., ⁵⁾ Graduate School of Science and Technology, Shizuoka University, Shizuoka, Japan
WS27	Modulation of Tumor Immune Microenvironment by Depleting Intratumoral Iron with Polymeric Iron Chelators
	○ Haochen Guo ^{1, 2)} , Takahiro Nomoto ^{1, 2)} , Hiroaki Kino ³⁾ , Jun Ishihara ⁴⁾ , Makoto Matsui ²⁾ , Yi-Jung Sung ^{1, 2)} , Nobuhiro Nishiyama ^{1, 2, 3)} ¹¹Department of Life Science and Technology, Tokyo Institute of Technology, ²²Laboratory for Chemistry and Life Science, Institute of Innovative Research, Tokyo Institute of Technology, ³¹Innovation Center of NanoMedicine (iCONM), Kawasaki Institute of Industrial Promotion, ⁴Faculty of Engineering, Imperial College London
WS27	Interleukin 4 Induced 1 (IL4I1) reorganizes tumor immune microenvironment in a mouse melanoma model
	Shiho Hirose ^{1, 2)} , Tetsuo Mashima ¹⁾ , Kunbai En ¹⁾ , Hiroyuki Seimiya ^{1, 2)} Division of Molecular Biotherapy, Cancer Chemotherapy Center, Japanese Foundation for Cancer Research, Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo
WS27	Spermidine-derived fatty acid oxidation regulates T cell differentiation and function in cancer
	immunotherapy
	Aprilia Maharani ¹⁾ , Muna Al-Habsi ^{1, 2)} , Kenji Chamoto ¹⁾ , Toshihiko Ogura ³⁾ , Sidonia Fagarasan ^{2, 4)} , Tasuku Honjo ¹⁾ Department of Immunology and Genomic Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾ Division of Integrated High-Order Regulatory Systems, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Kyoto University, Kyoto, Japan, ³⁾ Department of Developmental Neurobiology, Institute of Development, Aging and Cancer, Tohoku University, Miyagi, Japan, ⁴⁾ Laboratory for Mucosal Immunity, Center for Integrative Medical Sciences, RIKEN Yokohama Institute, Yokohama, Japan

cDC1 accumulation in the tumor microenvironment by mXCL1-V21CA59C enhances CD8+ T cell priming and antitumor immunity

○ Kazuhiko Matsuo¹¹, Momo Kamei¹¹, Shiki Takamura²¹, Takashi Nakayama¹¹

WS27-06-P

¹⁾Division of Chemotherapy, Kindai University Faculty of Pharmacy, ²⁾Department of Immunology, Kindai University Faculty of Medicine

Ropeginterferon alfa-2b activates T lymphocytes to exhibit antitumor activity and induces tumor-specific memory immunity

O Yasuhiro Nakashima, Kazuki Sakatoku, Joji Nagasaki, Hirohisa Nakamae, Masayuki Hino Hematology, Graduate School of Medicine, Osaka Metropolitan University, Osaka, Japan

WS27-07-P	ILC2-derived OX40L-OX40 signal promotes cytotoxic CD8* T cell-mediated antitumor immunity in murine melanoma
	 Yuko Okuyama¹, Akira Okajima¹, Nao Sakamoto¹, Ryuto Tanabe¹, Ayaka Hashimoto¹, Atsuko Asao^{1,2}, Ziying Yang¹, Akihisa Kawajiri¹, Takeshi Kawabe¹, Naoto Ishii¹ ¹Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Miyagi, Japan, ²Department of Disaster Public Health, International Research Institute of Disaster Science, Tohoku University, Miyagi, Japan
WS27-08-P	Clec4A4 acts as negative immune checkpoint regulator expressed on conventional dendritic cells to suppress tumor immunity
	 Tomofumi Uto, Tomohiro Fukaya, Moe Tominaga, Katsuaki Sato Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki
WS27-09-P	Intra-tumor cell infection with Salmonella enhances anti-tumor immunity
	O Yutaka Horiuchi, Sara Hatazawa, Yukie Ando, Akihiro Nakamura, Takashi Murakami Dept. Microbiol., Saitama Med. Univ.
WS27-10-O/P	Combination immunotherapy targeting stearoyl-CoA desaturase 1 (SCD1) with immunosuppressive activity
	Yuki Katoh ^{1,2,3)} , Tomonori Yaguchi ^{1,4)} , Akiko Kubo ⁵⁾ , Takashi Iwata ^{1,3)} , Kenji Morii ^{1,4)} , Daiki Kato ¹⁾ , Shigeki Ohta ^{1,6)} , Makoto Suematsu ⁵⁾ , Yutaka Kawakami ^{1,6)}
	¹⁾ Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine, ²⁾ Division of Anatomical Science, Department of Functional Morphology, Nihon University School of Medicine, ³⁾ Department of Obstetrics and Gynecology, Keio University School of Medicine, ⁴⁾ Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology(CCII), Graduate School of Medicine, Kyoto University, ⁵⁾ Department of Biochemistry, Keio University School of Medicine, ⁶⁾ Department of Immunology, School of Medicine, International University of Health and Welfare
WS27-11-O/P	A novel immunotherapy using CCL19-expressing allogeneic mesenchymal stromal cells exert anti-tumor
	effect by increasing CD103 ⁺ CD8 ⁺ T cells
	Yuichi lida, Mamoru Harada
	Department of Immunology, Faculty of Medicine, Shimane University

Regulation of pro-tumorigenic cytokines by the activation of Ca2+-activated K+ channel Kc3.1 in THP-1derived M₂ macrophages

O Susumu Ohya, Miki Matsui, Kyoko Endo

Department of Pharmacology, Graduate School of Medical Sciences, Nagoya City University, Nagoya, Japan

WS27-13-O/P

WS27-12-P

Metabolic adaptation of cancer cells to escape from immune-editing process

○ Sisca Ucche¹⁾. Soichiro Sasaki¹⁾. Kazuvoshi Takeda²⁾. Yoshihiro Hayakawa¹⁾

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WS27-14-O/P

Spermidine activates Mitochondrial trifunctional complex MTP leading to enhanced fatty acid oxidation FAO in CD8+ T cells and stronger anti-tumor immunity in combination PD-1 blockade

○ Muna Al-Habsi^{1, 2, 3)}, Kenji Chamoto¹⁾, Norimichi Nomura⁴⁾, Ken Matsumoto⁵⁾, Kazuhiko Sonomura^{6, 7)}, Baihao Zhang⁸⁾, Yuki Sugiura⁹⁾, Toshihiko Ogura⁵⁾, Sidonia Fagarasan^{3,8)}, Tasuku Honjo¹⁾

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WS27-15-P

Type 1 conventional dendritic cells of bone marrow assist the progression of multiple myeloma and consist of tumor microenvironment in the transplanted Vk*MYC mouse model

○ Sayaka Suzuki^{1,2,3)}, Shogo Tsuda¹⁾, Tomoki Takubo¹⁾, Haruka Toyoshima¹⁾, Miya Yoshino¹⁾, Tsuneyasu Kaisho⁴⁾, Tetsuya Fukuda²⁾, Koji Tokoyoda¹⁾

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WS27-16-O/P

Single-cell RNA-seq analysis of human tumor infiltrating T cells across multiple tumor types to discover potential targets for combination immunotherapy

○ Yoshinobu Koguchi¹⁾, Tanisha Christie¹⁾, Venkatesh Rajamanickam¹⁾, Noah Simons¹⁾, Wesley Rosales¹⁾, Laura Seestaller Wehr²⁾, Niranjan Yanamandra²⁾, Sue Griffin²⁾, James Smothers²⁾, Johanna Kaufmann³⁾, Brady Bernard¹⁾, William Redmond¹⁾

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WS27-17-P

Combined effects of immune checkpoint blockers, a CD40 agonistic antibody, and a CSF1 receptor inhibitor on pancreatic cancer in mice

○ Juri Ichikawa¹¹, Hiroshi Okuda¹¹, Shingo Kato²², Daisuke Kurotaki¹.³³, Wataru Kawase¹.⁴³, Haruka Yoshida¹¹, Tomohiko Tamura¹¹

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WS27-18-P

Mycobacterium Tuberculosis-specific Tbet* CD4* memory T cells contribute to trained immunity against cancer and viral infection

○ Burcu Temizoz^{1, 2, 3)}, Nobuyoshi Kobayashi⁴⁾, Yuta Ohira⁴⁾, Kou Hioki¹⁾, Tomoya Hayashi^{1, 2, 3)}, Michelle S.J. Lee⁵⁾, Takayuki Horii⁴⁾, Cevayir Coban^{3, 5, 6)}, Kouji Kobiyama^{1, 2, 3)}, Ken J. Ishii^{1, 2, 3, 6)}

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WS27-19-P

Extracellular low pH in myeloma microenvironments induce tolerogenic dendritic cells

Mariko Ishibashi, Rimpei Morita
Nippon Medical School

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WS27-20-O/P

IFN-α/β-mediated neuropeptide signaling augments malignancy of colon cancer cells

Hidemitsu Kitamura¹⁾, Huihui Xiang^{1, 2)}, Yujiro Toyoshima^{1, 2)}, Naoki Okada^{1, 2)}, Shuhei Kii^{1, 2)}, Ko Sugiyama^{1, 2)}, Toshihiro Nagato³⁾, Hiroya Kobayashi³⁾, Kazuho Ikeo⁴⁾, Shinichi Hashimoto⁵⁾, Mishie Tanino⁶⁾, Akinobu Taketomi²⁾

Division of Functional Immunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan, Department of Gastroenterological Surgery I, Hokkaido University Graduate School of Medicine, Sapporo, Japan, Department of Pathology, Asahikawa Medical University, Asahikawa, Japan, Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan, Department of Surgical Pathology, Asahikawa Medical

WS27-21-P

SerpinB9, a hypoxic response-related molecule responsible for immunotherapy resistance

O Mamoru Harada, Yuichi lida, Hitoshi Kotani

Department of Immunology, Faculty of Medicine, Shimane University, Izumo, Shimane, Japan

WS27-22-P

Comprehensive analyses of immune profile in tumor-microenvironment of tongue squamous cell carcinoma

O Pissacha Daroonpan, Ryo Ouchi, Miyuki Azuma

Department of Molecular Immunology, Tokyo Medical and Dental University, Tokyo, Japan

WS27-23-O/P	Immunosuppression-elicited Galectin-7 is a crucial metastatic enhancer of squamous cell carcinoma
	¹⁾ Department of Biochemistry and Metabolic Science, Akita University Graduate School of Medicine, Akita, Japan, ²⁾ Department of Surgery, Akita University Graduate School of Medicine, Akita, Japan, ³⁾ Laboratory of Regulation of Intractable Infectious Diseases, National Institute of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ⁴⁾ Department of Medical Genome Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Chiba, Japan
WS27-24-O/P	A novel prognostic gene signature of amino acid metabolism pathways under lung adenocarcinoma
	tumor immune microenvironment — Huihui Xiang ¹⁾ , Rika Kasajima ¹⁾ , Sasada Tetsuro ²⁾ , Yohei Miyagi ¹⁾ ¹⁾ Molecular Pathology & Genetics Division, Kanagawa Cancer Center Research Institute, Yokohama, Japan, ²⁾ Division of Cancer Immunotherapy Kanagawa Cancer Center Research Institute, Yokohama, Japan
WS27-25-P	Establishment of Anti-Estrogenic Therapy targeting IL-34 in Triple-Negative Breast Cancer Nabeel Kajihara, Ken-Ichiro Seino
	Division of Immunobiology, Graduate School of Medicine, Hokkaido University, Japan
WS27-26-P	Integrated multiomics profiling identifies the differentiation program of regulatory T cells in human tumors
	○ Takuma Irie ¹⁾ , Kota Itahashi ¹⁾ , Junichiro Yuda ^{1,2)} , Shogo Kumagai ¹⁾ , Tokiyoshi Tanegashima ¹⁾ , Yi-Tzu Lin ³⁾ , Sho Watanabe ¹⁾ , Shohei Koyama ¹⁾ , Hiroyoshi Nishikawa ^{1,3)}
	¹⁾ Division of Cancer Immunology, Research Institute/Exploratory Oncology Research & Clinical Trial Center (EPOC), National Cancer Center, ²⁾ Department of Hematology, National Cancer Center Hospital East, ³⁾ Department of Immunology, Nagoya University Graduate School of Medicine
WS27-27-P	The symbiotic system in the tumor microenvironment that supports tumor progression
	○ Xiaoyun Li¹¹, Zhengtao Xiao²¹, Jason Locasale²¹, Isabel Lopez-Mejia³¹, Lluis Coll³¹, Ping-Chih Ho¹¹ ¹¹Ludwig Institute for Cancer Research Lausanne, University of Lausanne, Lausanne, Switzerland, ²¹Department of Pharmacology and Cancer Biology, Duke University School of Medicine, Durham, USA, ³¹Center for Integrative Genomics, University of Lausanne, Lausanne, Switzerland
December WS28 Infec	tion and Immunity III
WS28-01-O/P	Therapeutic efficacy of monoclonal antibodies and antivirals against SARS-CoV-2 Omicron variants in the hamster model
	Ryuta Uraki ^{1,2)} , Maki Kiso ¹⁾ , Masaki Imai ^{1,2)} , Seiya Yamayoshi ^{1,2)} , Mutsumi Ito ¹⁾ , Michiko Ujie ^{1,2)} , Yuri Furusawa ^{1,2)} , Atsuhiro Yasuhara ¹⁾ , Kiyoko Iwatsuki-Horimoto ¹⁾ , Yuko Sakai-Tagawa ¹⁾ , Yoshihiro Kawaoka ^{1,2,3)} ¹⁾ Division of Virology, Institute of Medical Science, University of Tokyo, ²⁾ The Research Center for Global Viral Diseases, National Center for Global Health and Medicine Research Institute, ³⁾ Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison
WS28-02-O/P	Acquisition of resistance to wild-type spike-immune sera by emerging SARS-CoV-2 variants
	○ Yafei Liu ^{1,2)} , Hui Jin ^{1,2)} , Wataru Nakai ^{1,2)} , Masako Kohyama ^{1,2)} , Hisashi Arase ^{1,2)} ¹¹Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Japan, ²¹Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Japan
WS28-03-O/P	The SARS-CoV-2 Omicron BA.1 spike G446S potentiates antiviral T cell immunity
	Chihiro Motozono ¹⁾ , Mako Toyoda ¹⁾ , Hiroshi Hamana ²⁾ , Keiko Udaka ³⁾ , Hiroyuki Kishi ²⁾ , Takamasa Ueno ¹⁾ Division of infection and immunity, Joint research center for Human Retrovirus infection, Kumamoto University, ²⁾ Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, ³⁾ Department of Immunology, Kochi University
WS28-04-O/P	Analysis of SARS-CoV-2 pathogenicity in COVID-19 cynomolgus macaque model reflecting human COVID-19 pathological conditions
	 Emiko Urano, Tomotaka Okamura, Yasuhiro Yasutomi Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition
WS28-05-O/P	Role of histone ubiquitination in SARS-CoV2 and influenza virus infection

National Institutes of Biomedical Innovation, Health and Nutrition, Center for Vaccine &Adjuvant Research

WS28-06-O/P	Characterization of airway M cell: a potential contribution to respiratory diseases
	Shunsuke Kimura ^{1, 2)} , Shingo Kawai ¹⁾ , Takahiro Yamada ^{1, 3)} , Yutaka Nakamura ^{1, 3)} , Shinichiro Sawa ⁴⁾ , Hase Koji ¹⁾ Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, ²⁾ PRESTO, Japan Science and Technology Agency, Saitama, Japan, ³⁾ Department of Microbiology and Immunology, School of Pharmaceutical Sciences, Wakayama Medical University, Wakayama, Japan., ⁴⁾ Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University
WS28-07-O/P	Immune Profiling of HTLV-1-Specific CTLs in Peripheral Blood and Cerebrospinal Fluid of HAM/TSP
	Patients for Elucidation of Immunoregulatory Mechanisms and Novel Biomarker Discovery
	Benjy Jek Yang Tan ¹⁾ , Kenji Sugata ¹⁾ , Tomoo Sato ²⁾ , Mitsuharu Ueda ³⁾ , Yoshihisa Yamano ²⁾ , Yorifumi Satou ¹⁾ Division of Genomics & Transcriptomics, Joint Research Center for Human Retrovirus Infection, Kumamoto University, ²⁾ Department of Rare Diseases Research, School of Medicine, St. Marianna University, Kanagawa, ³⁾ Department of Neurology, Kumamoto University Hospital, Kumamoto
WS28-08-O/P	Investigation of the role of follicular CD8 T cells for reducing viral reservoirs under cART treatment
	Ayaka Washizaki ¹⁾ , Shokichi Takahama ¹⁾ , Tomotaka Okamura ²⁾ , Takuto Nogimori ¹⁾ , Yuji Masuta ¹⁾ , Yorifumi Satou ³⁾ , Takuya Yamamoto ^{1, 4, 5)} **Dilaboratory of Immunosenescence, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, **ITsukuba primate research center, National Institutes of Biomedical Innovation, Health and Nutrition, Ibaraki, Japan, **IDivision of Genomics and Transcriptomics, Joint Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, Japan, **ILaboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, **Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan
WS28-09-P	Establishment of anti-TMPRSS2 mAbs that potently inhibit infection of any variants of SARS-CoV-2
	Michishige Harada ¹⁾ , Takehisa Matsumoto ¹⁾ , Mizuki Yamamoto ²⁾ , Jin Gohda ²⁾ , Akiko Idei ³⁾ , Kouske Miyauchi ¹⁾ , Mikako Shirouzu ¹⁾ , Jun-Ichiro Inoue ²⁾ , Takashi Saito ¹⁾ 11-7-22 Suehiro-cho, Tsurumi-ku, Yokohama City, Kanagawa, 230-0045, Japan, 214-6-1 Shirokanedai, Minato-ku, Totkyo, 108-8639, Japan, 312-1 Hirosawa, Wako, Saitama 351-0198, Japan
WS28-10-P	Induction of antibodies which cross-neutralize various SARS-CoV-2 variants in COVID-19 convalescent patients
	 Takeo Kuwata, Yu Kaku, Kikiko Shimizu, Shashwata Biswas, Kaho Matsumoto, Shuzo Matsushita Joint research Center for Human retrovirus Infection, Kumamoto University, Kumamoto, Japan
	SARS-CoV-2 vaccination robustly increases memory B cells while persistently maintains memory T cells
WS28-11-P	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda Department of Microbiology and Immunology, Keio University School of Medicine
WS28-11-P WS28-12-P	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda
	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda Department of Microbiology and Immunology, Keio University School of Medicine In-depth analysis of SARS-CoV-2-specific CD8 ⁺ T cells of moderate/severe COVID-19 convalescents using single cell RNA-sequencing analysis Hideki Ogura ¹⁾ , Jin Gohda ²⁾ , Xiuyuan Lu ³⁾ , Mizuki Yamamoto ²⁾ , Hiromoto Murakami ⁴⁾ , Kunihiro Shirai ⁴⁾ , Sho Yamasaki ³⁾ , Jun-Ichi Hirata ⁴⁾ , Satoshi Ishido ¹⁾
	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda Department of Microbiology and Immunology, Keio University School of Medicine In-depth analysis of SARS-CoV-2-specific CD8 ⁺ T cells of moderate/severe COVID-19 convalescents using single cell RNA-sequencing analysis Hideki Ogura ¹⁾ , Jin Gohda ²⁾ , Xiuyuan Lu ³⁾ , Mizuki Yamamoto ²⁾ , Hiromoto Murakami ⁴⁾ , Kunihiro Shirai ⁴⁾ ,
	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda Department of Microbiology and Immunology, Keio University School of Medicine In-depth analysis of SARS-CoV-2-specific CD8 ⁺ T cells of moderate/severe COVID-19 convalescents using single cell RNA-sequencing analysis Hideki Ogura ¹⁾ , Jin Gohda ²⁾ , Xiuyuan Lu ³⁾ , Mizuki Yamamoto ²⁾ , Hiromoto Murakami ⁴⁾ , Kunihiro Shirai ⁴⁾ , Sho Yamasaki ³⁾ , Jun-Ichi Hirata ⁴⁾ , Satoshi Ishido ¹⁾ Department of Microbiology, Hyogo Medical University, Hyogo, Japan, ²⁾ Research Center for Asian Infectious Diseases, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ³⁾ Department of Molecular Immunology, Research Institute for Microbial Diseases,
WS28-12-P	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda Department of Microbiology and Immunology, Keio University School of Medicine In-depth analysis of SARS-CoV-2-specific CD8 ⁺ T cells of moderate/severe COVID-19 convalescents using single cell RNA-sequencing analysis Hideki Ogura ¹⁾ , Jin Gohda ²⁾ , Xiuyuan Lu ³⁾ , Mizuki Yamamoto ²⁾ , Hiromoto Murakami ⁴⁾ , Kunihiro Shirai ⁴⁾ , Sho Yamasaki ³⁾ , Jun-Ichi Hirata ⁴⁾ , Satoshi Ishido ¹⁾ Department of Microbiology, Hyogo Medical University, Hyogo, Japan, Paesearch Center for Asian Infectious Diseases, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, Department of Emergency and Critical Care Medicine, Hyogo Medical University, Hyogo, Japan
WS28-12-P	Akihiko Yoshimura, Setsuko Mise-Omata, Mari Ikeda Department of Microbiology and Immunology, Keio University School of Medicine In-depth analysis of SARS-CoV-2-specific CD8+ T cells of moderate/severe COVID-19 convalescents using single cell RNA-sequencing analysis Hideki Ogura ¹⁾ , Jin Gohda ²⁾ , Xiuyuan Lu ³⁾ , Mizuki Yamamoto ²⁾ , Hiromoto Murakami ⁴⁾ , Kunihiro Shirai ⁴⁾ , Sho Yamasaki ³⁾ , Jun-Ichi Hirata ⁴⁾ , Satoshi Ishido ¹⁾ Department of Microbiology, Hyogo Medical University, Hyogo, Japan, ²⁾ Research Center for Asian Infectious Diseases, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ³⁾ Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ⁴⁾ Department of Emergency and Critical Care Medicine, Hyogo Medical University, Hyogo, Japan Establishment of a mouse model for SARS-CoV-2 virus infection and analysis of itsaftereffects Hitomi Watanabe ¹⁾ , Kazuko Miyazaki ¹⁾ , Toru Okamoto ²⁾ , Gen Kondoh ¹⁾ , Masaki Miyazaki ¹⁾ Viyoto University, Institute for Life and Medical Sciences, laboratory of integrative biological sciences, ²⁾ Institute for Advanced Co-Creation

WS28-15-P	Elucidation of SARS-CoV2 entry mechanism by using human functional monoclonal antibodies
	O Ryota Otsubo ¹⁾ , Takeharu Minamitani ¹⁾ , Kouji Kobiyama ^{2,3)} , Shiori Ueno ⁴⁾ , Ken-Ichi Imadome ⁵⁾ , Ken Ishii ^{2,3)} , Kouhei Tsumoto ^{6,7,8)} , Wataru Kamitani ⁴⁾ , Teruhito Yasui ¹⁾
	¹⁾ Laboratory of Infectious Diseases and Immunity, Center for Vaccine and Adjuvant Research(CVAR), National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), Osaka, Japan, ²⁾ Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ³⁾ Laboratory of Adjuvant Innovation, CVAR, NIBIOHN, Osaka, Japan, ⁴⁾ Department of Infectious diseases and Host Defense, Graduate School of Medicine, Gunma University, Gunma, Japan, ⁵⁾ Department of Advanced Medicine for infections, National Center for Child Health and Development (NCCHD), Tokyo, Japan, ⁶⁾ Center for Drug Discovery Research (CDDR), NIBIOHN, Oasaka, Japan, ⁷⁾ Department of Bioengineering, School of Engineering, The University of Tokyo, Tokyo, Japan, ⁸⁾ Medical Proteomics Laboratory, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan
WS28-16-P	Improved immunogenicity of the recombinant vaccinia virus by targeting the immunomodulatory A46R
	gene locus
	Akihiko Sakamoto ¹⁾ , Hinata Hashimoto ¹⁾ , Hiroaki Osawa ¹⁾ , Saya Yamauchi ¹⁾ , Tetsushi Mizuno ^{1, 2)} , Kyouhei Yamagata ¹⁾ , Keigo Mitsuhashi ¹⁾ , Jingru Che ¹⁾ , Ryohei Ogawa ³⁾ , Mitsuhiro Iyori ^{1, 4)} , Hisatoshi Shida ⁵⁾ , Shigeto Yoshida ¹⁾
	¹⁾ Kanazawa University School of Pharmacy, Kanazawa, Ishikawa, Japan, ²⁾ Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Ishikawa, Japan, ³⁾ Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, Toyama, Japan, ⁴⁾ Department of Pharmaceutical Sciences, Musashino University, Tokyo, Japan, ⁵⁾ Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan
WS28-17-P	Combination of protein and DNA vaccine enhanced T-cell-mediated immune responses
	O Shih-Jen Liu ^{1, 2, 3)} , Hung-Chun Liao ^{1, 4)} National Institute of Infectious Diseases and Vaccinology, National Health Research Institutes, Miaoli, Taiwan, ²⁾ Graduate Institute of Biomedical
	Sciences, China Medical University, Taichung, Taiwan, ³ Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, ⁴ Department of Life Sciences, National Tsing Hua University, Hsinchu, Taiwan
WS28-18-P	Concomitant cytotoxic effector differentiation of CD4 ⁺ and CD8 ⁺ T cells in response to EBV infected B cells
	Yumi Tamura, Keita Yamane, Moeka Mori, Yohei Kawano, Shun Ohki, Yasuo Kitajima, Tomoharu Yasuda Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan
WS28-19-P	Enhanced detection of virus-specific CD8+ T cells by XCL1 chemokine
	○ Yuta Kimura ¹⁾ , Takuto Nogimori ²⁾ , Ayaka Washizaki ²⁾ , Takuya Yamamoto ^{2, 3, 4)} , Yasuko Tsunetsugu-Yokota ^{1, 2, 5)} ¹¹Graduate School of Medical Technology, Tokyo University of Techology, Tokyo, Japan, ²¹Laboratory of Immunosenescence, Center for Vaccine and Adjuvant Research, National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ³¹Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, ⁴¹Department of Virology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁵¹Department of Medical Technology, School of Human Sciences, Tokyo University of Technology, Tokyo, Japan
WS28-20-P	Autologous PBMC vaccination in STLV-1-infected Japanese macaques as a preclinical model for a novel
	immunotherapy for adult T-cell leukemia/lymphoma Atsuhiko Hasegawa ^{1, 2)} , Mari Kannagi ^{1, 3)} , Hirofumi Akari ⁴⁾
	1) Department of Immunotherapeutics, Tokyo Medical & Dental University, Tokyo, Japan, 2) Institute for Clinical Research, National Hospital Organization Kyushu Capper Center, Fukuoka, Japan, 3) Department of Microbiology, Kapsai Medical University, Osaka, Japan, 4) Center for

Human Evolution Modeling Research, Primate Research Institute, Kyoto University, Kyoto, Japan

WS28-21-P Immune response to endogenous retroviruses

○ Kagefumi Todo¹¹, Masaki Hikida²¹

¹⁾Department of Health and Nutrition, Tokiwa University, ²⁾Graduate School of Engineering Science, Akita University

WS28-22-P Spermidine enhanced the cellular and humoral immune response by cyclic GMP-AMP in HBsAg vaccination

O Hiroyasu Ito¹⁾, Daisuke Ito²⁾, Masahito Shimizu²⁾

¹⁾Department of Joint Research Laboratory of Clinical Medicine, Fujita Health University School of Medicine, ²⁾Department of Gastroenterology, Gifu University Graduate School of Medicine

WS28-23-P Identification of integrins as a receptor for chronic encephalomyelitis virus

O Kazuya Takeda, Tomonori Kaifu, Akira Nakamura

Division of Immunology, Faculty of Medicine, Tohoku Medical and Pharmaceutical University, Sendai, Japan

WS28-24-P	A novel drug targeting approach: Inhibition of Plasmodium parasite life cycle
	Rashmi Dash ^{1, 2)} , Michelle Sj Lee ^{1, 3)} , Hideo Negishi ^{3, 4)} , Ken. J. Ishii ^{3, 4)} , Shiroh Iwanaga ^{3, 4, 5)} , Cevayir Coban ^{1, 2, 3, 4)} Division of Malaria Immunology, Institute of Medical Science (IMSUT), University of Tokyo, ²⁾ Graduate School of Frontier Science, The University of Tokyo, ³⁾ Division of Vaccine science, IMSUT, ⁴⁾ International Vaccine Design Center, IMSUT, ⁵⁾ Department of Protozoology, RIMD, Osaka University
WS28-25-P	Application of Compact Immunoassay System to On-Site COVID Antibody Testing
	 Akihiro Shirai, Kazuyo Yoshida, Koki Hoshikawa, Shun Nakamoto, Yuki Akasaka, Shunsuke Hazama, Kazuyoshi Horii Sysmex Corporation, Kobe, Japan
Decembe	er 9
WS29 Der	ndritic cells and macrophages-3: Regulation of cytokine production, pathogenesis
WS29-01-O/P	Regulatory Mechanism in Innate Immune Response by a CCCH-type Zinc Finger Protein, ENZ-1
	Norisuke Kano, Daisuke Ori, Takumi Kawasaki, Taro Kawai Division of Science and Technology, Laboratory of Molecular Immunobiology, Nara Institute of Science and Technology, Nara, Japan
WS29-02-O/P	Regulation of II6 Expression by a Single CpG methylation in the II6 locus
	Takumi Kawasaki, Benedict Shi Xiang Lian, Daisuke Ori, Taro Kawai Nara Institute of Science and Technology (NAIST), Laboratory of Molecular Immunobiology
WS29-03-P	Positive effects on selective autophagy by quercetin-induced heme oxygenase-1
	 Hinata Taniguchi¹⁾, Miyoko Matsushima¹⁾, Sayaka Takagi²⁾, Moeko Ohara¹⁾, Hikaru Tsuzuki¹⁾, Nodoka Shimasaki¹⁾, Ayumi Tajima¹⁾, Hina Kawashima²⁾, Fuzuki Hayashi²⁾, Nanami Yoshida²⁾, Tsutomu Kawabe¹⁾ ¹⁾Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Aichi, Japan, ²⁾Department of Medical Technology, Nagoya University School of Health Sciences, Aichi, Japan
WS29-04-P	Synergistic effects of Toll-like receptor signaling on inflammation induced by silica nanoparticles
	Nanami Yoshida ¹⁾ , Miyoko Matsushima ²⁾ , Moeko Ohara ²⁾ , Hikaru Tsuzuki ²⁾ , Nodoka Shimasaki ²⁾ , Ayumi Tajima ²⁾ , Hinata Taniguchi ²⁾ , Hina Kawashima ¹⁾ , Sayaka Takagi ¹⁾ , Fuzuki Hayashi ¹⁾ , Tsutomu Kawabe ²⁾ Department of Medical Technology, Nagoya University School of Health Sciences, Aichi, Japan, Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Aichi, Japan
WS29-05-O/P	O ⁶ -alkylguanine DNA alkyltransferase (MGMT) Regulates Beta-Glucan-induced Trained Immunity in
	Macrophages
	□ Tanapat Palaga ^{1, 2, 3)} , Salisa Benjaskulluecha ^{1, 2)} , Atsadang Boonmee ³⁾ , Thitiporn Pattarakankul ^{3, 4)} , Benjawan Wongprom ³⁾ ¹¹¹Center of Excellence in Immunology and Immune-Mediated Diseases, Chulalongkorn University, Bangkok, Thailand, ²¹Interdisciplinary Graduate Program in Medical Microbiology, Graduate School, Chulalongkorn University, Bangkok, Thailand, ³¹Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, ⁴¹Center of Excellence in Advanced Materials and Biointerfaces, Chulalongkorn University, Bangkok, Thailand
WS29-06-O/P	Novel function of clathrin heavy chain regulating NLRP3 inflammasome formation via endocytosis in
	macrophages
	Hiep Hung Huynh ¹⁾ , Eri Koike ¹⁾ , Masumi Shimizu ¹⁾ , Rimpei Morita ¹⁾ , Akihiko Yoshimura ²⁾ ¹⁾ Nippon Medical School, Tokyo, Japan, ²⁾ Keio University School of Medicine, Tokyo, Japan
WS29-07-P	Sphingosine-1-phosphate lyase promotes inflammasome activation via the development of endoplasmic reticulum network
	 Fumiyuki Sasaki, Masumi Shimizu, Rimpei Morita Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan
WS29-08-P	Gelsolin-actin axis organizes NLRP3 inflammasome activation
	Masumi Shimizu ¹⁾ , Jiyeon Lee ²⁾ , Fumiyuki Sasaki ¹⁾ , Akihiko Yoshimura ³⁾ , Lark Kyun Kim ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾ Severance Biomedical Science Institute, Yonsei University School of Medicine, Tokyo, Japan

WS29-09-P	Caspase-11 triggers NLRP3 inflammasome activation in macrophages infected with <i>Acinetobacter baumannii</i>
	Yasuyuki Matsuda, Kenichiro Mori, Hideki Hara Department of Microbiology and Immunochemistry, Asahikawa Medical University, Asahikawa, Japan
WS29-10-O/P	Dendritic and T cell abnormalities in an autoinflammatory disease with interstitial lung disease and type
	I interferonopathy caused by a disability of retrograde protein trafficking
	○ Takashi Kato ¹⁾ , Izumi Sasaki ¹⁾ , Hiroaki Hemmi ^{1,2)} , Yoshitaka Honda ^{3,4,5)} , Kazushi Izawa ⁵⁾ , Ryuta Nishikomori ⁶⁾ , Tsuneyasu Kaisho ¹⁾
	¹⁾ Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan, ²⁾ Laboratory of Immunology, Faculty of Veterinary Medicine, Okayama University of Science, Imabari, Japan, ³⁾ Institute for the Advanced Study of Human Biology (ASHBi), Kyoto University, Kyoto, Japan, ⁴⁾ Department of Immunology, Kyoto University Graduate School of Medicine, Kyoto Japan, ⁵⁾ Department of Pediatrics, Kyoto University Graduate School of Medicine, Kyoto Japan, ⁶⁾ Department of Pediatrics and Child Health, Kurume University School of Medicine, Kurume, Japan
WS29-11-O/P	The role of RNase T2 in macrophage homeostasis
	O Ryota Sato ¹⁾ , Kaiwen Liu ¹⁾ , Takuma Shibata ¹⁾ , Ryutaro Fukui ¹⁾ , Katsuaki Hoshino ²⁾ , Tsuneyasu Kaisho ³⁾ , Kensuke Miyake ¹⁾
	¹⁾ Division of Innate Immunity, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan., ²⁾ Department of Immunology, Faculty of Medicine, Kagawa University, Kagawa, Japan., ³⁾ Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan
WS29-12-P	Differential pathogenesis of non-alcoholic steatohepatitis in type 2 diabetic TSOD mice and their control TSNO mice
	Naoya Igarashi Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University
WS29-13-P	Analysis of liver macrophage subsets in a novel dietary mouse model of non-alcoholic steatohepatitis, "3-F mice"
	Yuki Tada ¹⁾ , Kaichi Kasai ¹⁾ , Nana Makiuchi ¹⁾ , Koichi Tsuneyama ²⁾ , Yoshinori Nagai ¹⁾ ¹⁾ Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, Toyama, Japan, ²⁾ Department of Pathology and Laboratory Medicine, Tokushima University Graduate School, Tokushima, Japan
WS29-14-O/P	FROUNT inhibitor disulfiram ameliorates crescentic glomerulonephritis through the inhibition of
	monocytes/macrophage migration and activation
	○ Etsuko Toda ^{1,2)} , Anri Sawada ¹⁾ , Kazuhiro Takeuchi ¹⁾ , Mika Terasaki ¹⁾ , Shinobu Kunugi ¹⁾ , Yasuhiro Terasaki ¹⁾ , Kouji Matsushima ²⁾ , Yuya Terashima ²⁾ , Akira Shimizu ¹⁾
	¹⁾ Department of Analytic Human Pathology, Nippon Medical School, Tokyo, Japan, ²⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan
WS29-15-O/P	The leukotriene B₄-BLT1 axis in neutrophils exacerbates crescentic glomerulonephritis
	○ Masatsugu Oh-Hora ^{1, 2)} , Ryotaro Shioda ^{1, 3)} , Airi Jo-Watanabe ^{1, 4)} , Toshiaki Okuno ¹⁾ , Kazuko Saeki ^{1, 2)} , Maiko Nakayama ³⁾ , Yusuke Suzuki ³⁾ , Takehiko Yokomizo ¹⁾
	¹⁾ Department of Biochemistry, Juntendo University Graduate School of Medicine, ²⁾ Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, ³⁾ Department of Nephrology, Juntendo University Faculty of Medicine, ⁴⁾ AMED-PRIME, Japan Agency for Medical Research and Development
WS29-16-P	JAK inhibition ameliorates bone destruction by simultaneously targeting mature osteoclasts and their precursors
	○ Yari Shinya, Kikuta Junichi, Masaru Ishii
	Department of Immunology and Cell Biology, Graduate School of Medicine and Frontier Biosciences, Osaka University, Osaka, Japan
WS29-17-P	Analysis of the mechanism of heterotopic ossification and immune response in fibrodysplasia ossificans progressiva (FOP)
	Asuka Terashima ^{1,2)} , Wenqiang Yin ³⁾ , Kazuo Okamoto ²⁾ , Takehito Ono ⁴⁾ , Hiroshi Takayanagi ³⁾
	¹⁾ Bone and Cartilage Regenerative Medicine, The University of Tokyo Hospital, ²⁾ Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ³⁾ Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ⁴⁾ Department of Cell Signaling, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University

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WS29-18-P	MAFB in macrphage is important in the recovery of AKI
	Maho Kanai ^{1, 2)} , Teppei Nishino ²⁾ , Akari Kimura ^{1, 2)} , Toshiaki Usui ^{2, 3)} , Naoki Morito ^{2, 3)} , Michito Hamada ²⁾ , Satoru Takahashi ²⁾
	¹⁾ Ph.D. Program in Human Biology, University of Tsukuba, ²⁾ Laboratory of Anatomy and Embryology, University of Tsukuba, ³⁾ Department of Nephrology, Faculty of Medicine, University of Tsukuba
WS29-19-P	Sustained reduction of alveolar macrophages predisposes the post-intensive care syndrome after successful treatment of severe peritonitis in mice
	○ Azusa Kato¹¹, Hiroyuki Nakashima¹¹, Kazuma Mori¹¹, Keiko Tanoue²¹, Hiroyasu Goto²¹, Kazuki Koiwai¹¹, Masahiro Nakashima¹¹, Manabu Kinoshita¹¹
	¹⁾ Department of Immunology and Microbiology, National Defense Medical College, Saitama, Japan, ²⁾ Department of Nephrology and Endocrinology, National Defense Medical College, Saitama, Japan
WS29-20-P	Changes in the fetal membrane due to Subchorionic hematoma
	O Eriko Yasuda, Haruta Mogami, Yu Matsuzaka, Asako Inohaya, Masahito Takakura, Yusuke Ueda, Yosuke Kawamura, Yoshitsugu Chigusa, Masaki Mandai
	Department of Gynecology and Obstetrics, Kyoto University Graduate School of Medicine, Kyoto, Japan
WS29-21-P	Increased IDO, CD38 and LDH expression in lung macrophages and endothelial cells indicating NAD+ dysmetabolism in cynomolgus macaques infected with SARS-CoV-2
	Ocong Thanh Nguyen, Hinata Soh, Misako Nakayama, Hirohito Ishigaki, Yasushi Itoh Division of Pathogenesis and Disease Regulation, Department of Pathology, Shiga University of Medical Science, Shiga, Japan
WS29-22-P	Repetitive reduction of granulocytes and monocytes ameliorates pulmonary arterial hypertension
	Yujin Nishioka ¹⁾ , Daichi Takemasa ²⁾ , Goh Murayama ¹⁾ , Makio Kusaoi ¹⁾ , Taiga Kuga ¹⁾ , Takumi Saito ¹⁾ , Yukitomo Hagiwara ¹⁾ , Kenta Kaneda ²⁾ , Ken Yamaji ¹⁾ , Naoto Tamura ¹⁾ ¹⁾ Department of Internal Medicine and Rheumatology, Juntendo University School of Medicine, ²⁾ JIMRO Co.,Ltd.
WS29-23-P	Immunomodulatory effects of D-allose on the function of plasmacytoid dendritic cells
	Katsuaki Hoshino ^{1, 2)} , Kenjiro Takao ^{1, 3)} , Makiko Suzuki ¹⁾ , Minoru Miyake ³⁾ , Kazuya Akimitsu ²⁾ ¹⁾ Department of Immunology, Faculty of Medicine, Kagawa University, Miki, Kagawa, Japan, ²⁾ International Institute of Rare Sugar Research and Education, Kagawa University, Miki, Kagawa, Japan, ³⁾ Department of Oral and Maxillofacial Surgery, Faculty of Medicine, Kagawa University, Miki, Kagawa, Japan
WS29-24-P	Leukotriene B4 receptor 1 defines functionally and epigenetically distinct DCs that control allergic skin inflammation
	Tomoaki Koga ^{1, 2)} , Fumiyuki Sasaki ²⁾ , Kazuko Saeki ²⁾ , Soken Tsuchiya ³⁾ , Toshiaki Okuno ²⁾ , Yukihiko Sugimoto ³⁾ , Takehiko Yokomizo ²⁾ , Mitsuyoshi Nakao ¹⁾
	¹⁾ Department of Medical Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto University, ²⁾ Department of Biochemistry, Juntendo Graudate School of Medicine, ³⁾ Department of Pharmaceutical Biochemistry, Graduate School of Pharmaceutical Sciences, Kumamoto University
December	9
WS30 Innate	e immunity (2) Innate recognition and signaling
WS30-01-P	Natural killer T-like cell activity interferes with the pathogenesis of alcohol-induced murine osteoporosis
	○ Munehiro Naruo ^{1, 2, 3)} , Yasuyuki Negishi ¹⁾ , Takahisa Okuda ⁴⁾ , Ken Okazaki ²⁾ , Rimpei Morita ¹⁾
	¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan, ²⁾ Department of Orthopaedic Surgery, Tokyo Women's Medical University, Tokyo, Japan, ³⁾ Department of Orthopaedic Surgery, Tomei Atsugi Hospital, Kanagawa, Japan, ⁴⁾ Department of Legal Medicine, Nihon University School of Medicine, Tokyo, Japan
WS30-02-P	Analysis on the functional role of TXP in antigen cross-presentation

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Laboratory of Molecular Immunobiology, Graduate School of Science and Technology, Nara Institute of Science and Technology, Ikoma Nara, Japan

O Moe Ikegawa, Takumi Kawasaki, Taro Kawai

WS30-03-O/P	Activation of MyD88- and TRIF-mediated Signaling Pathways by <i>Alcaligenes</i> Lipid A for Efficient Antigen Presentation and T Cell Differentiation by Dendritic Cells
	∑ Xiao Sun ^{1, 2)} , Koji Hosomi ¹⁾ , Atsushi Shimoyama ²⁾ , Ken Yoshii ^{1, 2)} , Zilai Liu ^{1, 2)} , Haruki Yamaura ²⁾ , Davie Kenneth ²⁾ , Azusa Saika ¹⁾ , Takahiro Nagatake ^{1, 3)} , Hiroshi Kiyono ^{4, 5, 6)} , Koichi Fukase ²⁾ , Jun Kunisawa ^{1, 2, 4, 7, 8)}
	¹⁾ National Institutes of Biomedical Innovation, Health and Nutrition, Osaka, Japan, ²⁾ Osaka University, Osaka, Japan, ³⁾ Meiji University, Tokyo, Japan, ⁴⁾ The University of Tokyo, Tokyo, Japan, ⁵⁾ University of California San Diego (UCSD), San Diego, CA, United States, ⁶⁾ Chiba University, Chiba, Japan, ⁷⁾ Kobe University, Kobe, Japan, ⁸⁾ Waseda University, Tokyo, Japan
WS30-04-P	Molecular mechanism of ANGPTL6 recognition by immune activation receptor LILRA2
	Kanazawa, Japan, ³⁾ Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁴⁾ Advanced Preventive Medical Sciences Research Center, Kanazawa University, Kanazawa, Japan, ⁵⁾ Department of Molecular Genetics, Kumamoto University, Kumamoto, Japan
WS30-05-O/P	Roles of the innate immune receptor RP105 in the development of nonalcoholic steatohepatitis
	 Shun Takano Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University
WS30-06-P	The Bruton's tyrosine kinase (Btk) inhibitor acalabrutinib suppress LPS-induced sepsis via inhibition of marginal zone B cells activation
	 Shinya Hatano, Kazuhiko Kawata, Yoshihiro Baba Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS30-07-O/P	NOP16, a novel epigenetic modifier, suppresses the excessive innate inflammatory response by regulating cellular stress
	 Ken Takashima, Yohana Mtali, Hiroyuki Oshiumi Department of Immunology, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan
WS30-08-O/P	A lethal cross-talk between innate immune and adrenergic receptor signaling
	 Shuto Tanaka, Masataka Kawakita, Kazuhiko Takahara Laboratory of Immunobiology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan
WS30-09-P	The rapid phagocytic activation via AnnexinA2-Galectin-3-F-actin signaling axis in serum-MAF treated macrophages
	 Kumpei Kawakatsu, Yoshika Seta, Takahito Nishikata Frontiers of Innovative Research in Science and Technology (FIRST), Konan University
WS30-10-P	An Aicardi–Goutières syndrome-causative point mutation in <i>Adar1</i> gene invokes multi-organ inflammation and late-onset encephalopathy in mice
	Taisuke Nakahama, Yukio Kawahara Department of RNA Biology and Neuroscience, Graduate School of Medicine, Osaka University
WS30-11-P	Protein-protein interaction of RNA binding proteins induced by anti-viral response
	○ Yoshimasa Asano ¹⁾ , Koji Onomoto ²⁾ , Mitsutoshi Yoneyama ^{2,3)} , Yuta Otobe ^{1,4)} , Hikari Yoshitane ^{1,4)} ¹⁾ Department of Biological Sciences, Graduate School of Science, The University of Tokyo, ²⁾ Division of Molecular Immunology, Medical Mycology Research Center, Chiba University, ³⁾ Research Institute of Disaster Medicine, Chiba University, ⁴⁾ Tokyo Metropolitan Institute of Medical Science
WS30-12-P	NOD1 suppresses ER stress-induced inflammation via IRE1/ASK1/MAPK pathway
	○ Yoshitaka Kimura ^{1, 2)} , Miyako Yamanaka ^{2, 3)} , Daisuke Tsukui ²⁾ , Noriko Miura ⁴⁾ , Yusuke Yoshino ¹⁾ , Hajime Kono ²⁾ ¹¹Department of Microbiology and Immunology, Teikyo University School of Medicine, Tokyo, Japan, ²¹Department of Internal Medicine, Teikyo University of Medicine, Tokyo, Japan, ³¹Division of Regenerative Therapy, Juntendo University Graduate School of Medicine, Tokyo, Japan, ⁴¹School of Pharmacy, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan
WS30-13-O/P	Glucagon-like Peptide-1 Receptor Agonist ameliorates inflammatory myopathies via suppressing muscle
	fiber necroptosis
	 Mari Kamiya, Marina Tsuchida, Hirokazu Sasaki, Natsuka Umezawa, Shinsuke Yasuda Department of Rheumatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU)

WS30-14-P	Nanaomycin E inhibits NLRP3 inflammasome activation by preventing mitochondrial dysfunction
	 Naoki Takemura, Tatsuya Saitoh Laboratory of Bioresponse Regulation, School of Pharmaceutical Sciences, Osaka University, Osaka, Japan
WS30-15-P	Type I IFN-inducing cell death by low molecular compounds
	○ Hideo Negishi ¹⁾ , Yusuke Wada ¹⁾ , Yoshitaka Shirasaki ²⁾ , Ken Ishii ¹⁾
	¹⁾ Division of Vaccine Science, the Institute of Medical Science, University of Tokyo, Tokyo, Japan., ²⁾ Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan
WS30-16-O/P	Kinetics of signaling via common Fc receptor γ (FcR γ) chain determine dendritic cell responses by
	altering chromatin status
	Miyuki Watanabe ^{1, 2, 3)} , Sho Yamasaki ^{1, 2, 4)} ¹⁾ Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²⁾ Laboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, Osaka, Japan, ³⁾ Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ⁴⁾ Center for Infectious Disease Education and Research (CiDER), Osaka University, Osaka, Japan
WS30-17-P	Roles of an innate immune receptor RP105 in the disruption of intestinal barrier function associated with metabolic syndrome
	•
	 Koudai Kani, Shun Takano, Riko Ishibashi, Yukihiro Furusawa, Yoshinori Nagai Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, Toyama, Japan
WS30-18-P	Sa15-21 mAb induces activation signal through TLR4/MD-2 in the Liver
	O Mrityunjoy Biswas, Masanori Inui, Tatsuya Yamazaki, Susumu Tomono, Sajid Iftekhar Chowdhury,
	Sachiko Akashi-Takamura Aichi Medical University School of Medicine, Nagakute, Aichi, Japan
	•
WS30-19-O/P	The Ragulator complex regulates NLRP3 inflammasome activation through interaction with HDAC6
	 Kohei Tsujimoto, Tatsunori Jo, Hyota Takamatsu, Atsushi Kumanogoh Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University
WS30-20-P	TLR7 stress response drives histiocytosis in SLC29A3 disorders
	Takuma Shibata, Ryota Sato, Shin-Ichiroh Saitoh, Kensuke Miyake Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan.
December	9
WS31 Autoi	mmunity
WS31-01-O/P	Moesin deficiency leads to the local CXCL13 expression and inflammation in the kidney
	O Satoko Ichioka, Hiroki Satooka, Takako Hirata
	Department of Fundamental Biosciences, Shiga University of Medical Science
WS31-02-O/P	Neutrophils exacerbate the pathogenesis of pulmonary fibrosis by cleaving IL-33
	○ Yuki Hara ¹⁾ , Yasutaka Motomura ^{1, 2)} , Kazuyo Moro ^{1, 2)}
	¹⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ²⁾ Laboratory for Innate Immune Systems, RIKEN IMS, Kanagawa, Japan
WS31-03-O/P	Tissue-specific deficiency of clonally expanded regulatory T cells underlies tissue-restricted inflammation
	in Foxp3A384T mutant mice
	○ Yoshimichi Hoshiya
	Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan
WS31-04-O/P	Treatment for autoimmune diseases with engineered exosome
	○ Shota Imai ¹⁾ , Tomoyoshi Yamano ^{2,3)} , Xiabing Lyu ²⁾ , Rikinari Hanayama ^{2,3)}
	¹⁾ Department of immunology, School of Frontier Science initiative division of Nano life science, Kanazawa University, Kanazawa, Japan, ²⁾ Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan, ³⁾ WPI Nano Life Science Institute (NanoLSI), Kanazawa University, Kanazawa, Japan

WS31-05-O/P	A new transcriptional mechanism of ectopic MHC class II expression induced by IFN-γ
	Wataru Nakai ^{1, 2)} , Yuta Shimizu ^{1, 2)} , Masako Kohyama ^{1, 2)} , Hisashi Arase ^{1, 2)} ¹⁾ Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, ²⁾ Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University
WS31-06-O/P	Autoantibodies to the Survival of Motor Neuron (SMN) complex as a novel marker for pulmonary arterial hypertension in patients with mixed connective tissue disease (MCTD)
	Yasuyuki Todoroki ¹⁾ , Minoru Satoh ^{2, 3)} , Satoshi Kubo ¹⁾ , Shumpei Kosaka ¹⁾ , Shin Tanaka ²⁾ , Shingo Nakayamada ¹⁾ , Yoshiya Tanaka ¹⁾ 1)First Department of Internal Medicine, University of Occupational and Environmental Health, Japan, ²⁾ Department of Human, Information and Life Sciences, University of Occupational and Environmental Health, Japan, ³ Kitakyushu Yahata Higashi Hospital
WS31-07-O/P	RNase-induced Fc gamma receptor stimulation of Ro60/SSA- and La/SSB- immune complexes
	Ryota Naito ^{1, 2, 3)} , Koichiro Ohmura ¹⁾ , Shuhei Higuchi ^{2, 3)} , Wataru Nakai ^{2, 3)} , Masako Kohyama ^{2, 3)} , Akio Morinobu ¹⁾ , Hisashi Arase ^{2, 3)} ¹⁾ Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾ World Premier International Immunology Frontier Research Center, Osaka University, Suita, Japan, ³⁾ Research Institute for Microbial Diseases, Osaka University, Suita, Japan
WS31-08-O/P	HLA analysis of the Nivolumab-induced ACTH deficiency
	○ Keiko Udaka ¹⁾ , Mitsuru Nishiyama ²⁾ , Shogo Funakoshi ²⁾ , Takashi Shiina ³⁾ , Takeyuki Shimizu ¹⁾ , Toshihiro Komatsu ¹⁾ , Hiroshi Hamana ⁴⁾ , Hiroyuki Kishi ⁴⁾ , Kousuke Onoue ⁵⁾ , Yuki Tanaka ⁵⁾ , Tetsu Aihara ⁶⁾ , Youki Nakagawa ⁶⁾ ¹¹Department of Immunology, School of Medicine, Kochi University, Nankoku, Japan, ²¹Department of Endocrinology, Metabolism and Nephrology, School of Medicine, Kochi University, Nankoku, Japan, ³¹Division of Basic Medical Science and Molecular Medicine, Department of Molecular Life Science, Tokai University, Isehara, Japan, ⁴¹Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, Japan, ⁵¹Al Drug Development Division, NEC Corporation, Tokyo, Japan, ⁵¹Advanced Science Course, School of Medicine, Kochi University, Nankoku, Japan
WS31-09-P	Identification of susceptibility genes for ANCA-associated vasculitis in SCG/Kj mice by the establishment
	of congenic mice and the RNA-sequence Yoshitomo Hamano ¹⁾ , Shuji Matsuoka ¹⁾ , Akihito Nagahara ¹⁾ , Ko Okumura ¹⁾ , Hideo Yagita ¹⁾ , Fuyu Ito ²⁾ , Takumi Kobayashi ³⁾ , Kazuho Ikeo ³⁾ , Wako Yumura ⁴⁾ , Naoki Maruyama ⁴⁾ , Kazuo Suzuki ⁵⁾ Department of Immunological Diagnosis, Juntendo University Graduate School of Medicine, ²⁾ Asia International Institute of Infectious Disease Control, Teikyo University, ³⁾ The National Institute of Genetics, ⁴⁾ Tokyo Metropolitan Institute of Gerontology, ⁵⁾ A-CLIP Institute
WS31-10-P	Th2 response enhances the differentiation into follicular B cells to progress the pulmonary autoimmune
	lesions in a mouse model of Sjögren's syndrome
	 Mami Sato, Aya Ushio, Kunihiro Otsuka, Takaaki Tsunematsu, Naozumi Ishimaru Department of Oral Molecular Pathology, Tokushima University Graduate School of Biomedical Sciences, Tokushima, Japan
WS31-11-P	Universal LCMS-based assay platform, refmAb-Q nSMOL, for monitoring monoclonal antibody therapeutics using Fab-selective proteolysis
	Therapeutics, Kyoto University Hospital, Kyoto, Japan
WS31-12-P	Computer model of foam cell formation in atherosclerosis
	Satoshi Yamada ¹⁾ , Akihiko Yoshimura ²⁾ , Masaaki Murakami ^{3,4)} ¹⁾ Depeartment of Information Science and Engineering, Okayama University of Science, Okayama, Japan, ²⁾ School of Medicine, University of Keio, Tokyo, Japan, ³⁾ Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan, ⁴⁾ Institute for quantum life science, National institutes for quantum and radiological science and technology, Chiba, Japan
WS31-13-P	The importance of RIG-I like signaling and IFN pathway were suggested in the pathogenesis of anti- melanoma differentiation-associated gene 5-positive dermatomyositis (MDA5 DM)
	○ Yoshinohu Koyama

Center for autoimmune diseases, division of rheumatology, Japanese Red Cross Okayama Hospital

WS31-14-P	Complete Freund's adjuvant treatment changed the ileal and fecal microbiota differently with altered immunoglobulin isotype and anti-tuberculosis antibody responses Sundar Khadka, Seiichi Omura, Fumitaka Sato, Ijaz Ahmad, Ikuo Tsunoda Department of Microbiology, Kindai University Faculty of Medicine, Osaka, Japan
WS31-15-P	Functional analyses of pathogenic T cells in autoimmune prone mice Yuriko Tanaka ¹⁾ , Akiko Inoue ²⁾ , Taku Naito ¹⁾ , Taku Kuwabara ¹⁾ , Marii Ise ¹⁾ , Terumi Kohwi-Shigematsu ³⁾ , Motonari Kondo ¹⁾ Department of Molecular Immunology, Toho University School of Medicine, Department of Otolaryngology, Toho University School of Medicine, Department of Orofacial science, University of California San Francisco School of Dentistry
WS31-16-P	Agonistic anti-PD-1 antibodies downregulate autoantibody development in lupus model mice Yosuke Tokumaru ^{1, 2)} , Kensuke Suzuki ^{1, 2)} , Iori Ohkura ^{1, 2)} , Masaki Tajima ¹⁾ , Satoshi Nagata ³⁾ , Haruhiko Kamada ³⁾ , Tasuku Honjo ¹⁾ , Akio Ohta ¹⁾ Toundation for Biomedical Research and Innovation at Kobe, Meiji Seika Pharma Co., Ltd., National Institutes of Biomedical Innovation, Health and Nutrition
WS31-17-P	Polyclonal Tregs have a therapeutic potency after autoimmune disease onset Yuji Nishimura, Yosuke Nagahata, Hiroshi Kawamoto Laboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University
WS31-18-P	NADPH oxidase regulates the stability of regulatory T cells and the development of autoimmunity Hiroki Satooka, Takako Hirata Department of Fundamental Biosciences, Shiga University of Medical Science
WS31-19-P	FOXM1 regulates fibrotic activity of skin fibroblasts derived from patients with systemic sclerosis Tomoaki Higuchi, Yasushi Kawaguchi Division of Rheumatology, Department of Internal Medicine, Tokyo Women's Medical University School of Medicine
WS31-20-P	Functional differences between brain and spinal cord Tregs and tissue repair Mahiro Watnabe, Minako Ito, Ako Matsui

Division of Allergy and Immunology, Kyusyu University, Fukuoka, Japan

Awards Ceremony and Lectures

Awards Ceremony and Lectures

12月7日 (水) Wednesday, 7th December

各賞授賞式・受賞講演

Awards Ceremony and Lectures

日本免疫学会功労会員表彰式 / Commendation Ceremony for JSI Meritorious Member

功労会員(2023年度 2名)

Meritorious Member (2023, 2 members)

清野 宏 氏

Dr. Hiroshi Kiyono

山本 一彦 氏

Dr. Kazuhiko Yamamoto

第 25 回日本免疫学会賞授賞式 / 25th JSI Award Ceremony

第25回日本免疫学会賞受賞者

25th JSI Award Winner

「免疫炎症・骨破壊の動態解明」

"Study of immune cellular dynamics in vivo"

石井 優 氏 (大阪大学大学院医学系研究科 免疫細胞生物学教室)

Dr. Masaru Ishii, Osaka University

第9回日本免疫学会ヒト免疫研究賞授賞式/

9th JSI Human Immunology Research Award Ceremony

第9回日本免疫学会ヒト免疫研究賞受賞者

9th JSI Human Immunology Research Award Winner

「腫瘍微小環境の免疫制御機構の解明と新規がん免疫療法への展開」

"Elucidation of immunosuppressive mechanisms in the tumor microenvironment for successful cancer immunotherapy"

西川 博嘉 氏 (名古屋大学大学院医学系研究科 微生物・免疫学講座 分子細胞免疫学)

Dr. Hiroyoshi Nishikawa, Nagoya University

第9回日本免疫学会女性免疫研究者賞授賞式/

9th JSI Women Immunologist Award Ceremony

第9回日本免疫学会女性免疫研究者賞受賞者

9th JSI Women Immunologist Award Winner

「制御性T細胞と樹状細胞による免疫制御の研究」

"The role of regulatory T cell-dendritic cell crosstalk in immune regulation"

山崎 小百合 氏(名古屋市立大学大学院医学研究科 免疫学)

Dr. Sayuri Yamazaki, Nagoya City University

※各種授賞式に引き続き、受賞講演を行います。

*The above Award Lectures will start following the ceremonies.

第 17 回日本免疫学会研究奨励賞授賞式 / 17th JSI Young Investigator Award Ceremony

第17回日本免疫学会研究奨励賞受賞者(五十音順)

17th JSI Young Investigator Award Winners

「恒常性を制御する自然免疫ダイナミズムの解明」

"Elucidation of innate immune dynamism maintaining homeostasis"

金山 剛士 氏 (東京医科歯科大学 難治疾患研究所 生体防御学分野)

Dr. Masashi Kanayama, Tokyo Medical and Dental University

「新たな自己反応性 T 細胞の産生・分化機構ならびに免疫学的機能の解明」

"Homeostatic mechanisms and functional significance of a novel, self-reactive T lymphocyte population"

河部 剛史 氏 (東北大学大学院医学系研究科 病理病態学講座 免疫学分野)

Dr. Takeshi Kawabe, Tohoku University

「RNA 編集による免疫制御機構の解明」

"Immune regulation by RNA editing"

中濱 泰祐 氏 (大阪大学大学院医学系研究科 神経遺伝学教室)

Dr. Taisuke Nakahama, Osaka University

「死細胞由来分子による腫瘍免疫微小環境制御機構の解析」

"Regulation of immunosuppressive network at the tumor microenvironment by dead-cell derived molecules"

半谷 匠 氏 (東京大学先端科学技術研究センター 炎症疾患制御分野)

Dr. Sho Hangai, The University of Tokyo

「腸管の粘膜免疫機構と微生物叢の解析を基盤とした疾患制御法の開発」

"Regulation of intestinal bacteria-mediated diseases by antigen-specific mucosal immune responses and metagenomic data"

藤本 康介 氏(大阪公立大学大学院医学研究科・医学部 メタゲノム解析研究センター ゲノム免疫学)

Dr. Kosuke Fujimoto, Osaka Metropolitan University

※研究奨励賞受賞者の研究課題については、12月8日(木)16時55分からポスター発表をいたします。

*JSI Young Investigator Award Winners' posters discussion will start at 16:55 on 8th December.

International Immunology Outstanding Merit Award Ceremony

International Immunology Outstanding Merit Award for 2021 Winner

"Selective expression of claudin-5 in thymic endothelial cells regulates the blood-thymus barrier and T-cell export"

Dr. Takahiro Nagatake, Meiji University

若手免疫学研究支援事業 / Outstanding Young Immunology Researcher Award Winners Introduction

2022 年若手免疫学研究支援事業受賞者(五十音順)

Outstanding Young Immunology Researcher Award 2022 Winners

「抗ウイルス免疫応答を制御する線維芽細胞サブセットの同定」

"Identification of fibroblast subsets that regulate antiviral immune responses"

小泉 真一 氏 (九州大学 生体防御医学研究所)

Dr. Shinichi Koizumi, Kyushu University

「腸内細菌および免疫系が脳発生・脳発達に及ぼす影響の解明」

"Elucidation of the effects of microbiota and the immune system on the brain development"

宮島 倫牛 氏 (慶應義塾大学医学部 解剖学教室)

Dr. Michio Miyajima, Keio University

「濾胞性ヘルパーT 細胞による胚中心維持・収束の分子基盤の解明」

"Molecular mechanisms of germinal center maintenance and termination regulated by T follicular helper cells" 森 大輝 氏 (大阪大学 感染症総合教育研究拠点)

Dr. Daiki Mori, Osaka University

若手女性研究者研究支援事業 / Outstanding Young Women Researcher Award Winners Introduction

2022 年若手女性研究者研究支援事業受賞者(五十音順)

Outstanding Young Women Researcher Award 2022 Winners

"Investigation of the role of B-cell-intrinsic TBK1 for germinal center formation"

Dr. Lee Michelle Sue Jann, The University of Tokyo

「自己免疫寛容構築における胸腺 T 前駆細胞由来樹状細胞の役割の解明」

"Investigation of the role of Thymic T progenitor cell-derived dendritic cells in establishing self-tolerance"

和田 はるか 氏 (北海道大学 遺伝子病制御研究所 免疫生物分野)

Dr. Haruka Wada, Hokkaido University

2022 年度「きぼう」プロジェクト 免疫学博士課程学生支援 採択者紹介/

"Kibou Projects 2022" Scholarship for Doctoral Students in Immunology Winners Introduction

阿比留 龍喜 氏 (東京大学)

Mr. Ryuki Abiru, The University of Tokyo

伊東 加織 氏 (東北大学)

Ms. Kaori Ito, Tohoku University

伊藤 直人 氏 (東京理科大学)

Mr. Naoto Ito, Tokyo University of Science

岡本 翔太 氏 (大阪大学)

Mr. Shota Okamoto, Osaka University

河合 真悟 氏 (慶應義塾大学)

Mr. Shingo Kawai, Keio University

栗原 新奈 氏 (東京大学)

Ms. Nina Kurihara, The University of Tokyo

佐藤 皓祐 氏 (東北大学)

Mr. Kosuke Sato, Tohoku University

田中 麗華 氏 (東京大学)

Ms. Reika Tanaka, The University of Tokyo

山﨑 貴弥 氏(横浜市立大学)

Mr. Takaya Yamasaki, Yokohama City University

安藤 雄太郎 氏 (東京大学)

Mr. Yutaro Ando, The University of Tokyo

亀井 萌百 氏(近畿大学)

Ms. Momo Kamei, Kindai University

※「きぼう」プロジェクト免疫学博士課程学生支援の採択者の研究課題については、12月8日(木)16時55分からポスター発表をいたします。

* "Kibou Projects" Scholarship for Doctoral Students in Immunology Winners' Poster discussion will start at 16:55 on 8th December.

Technical Seminar

Technical Seminar

11:45-12:45, Wednesday, December 7

T01 Technical Seminar 01 LIVE (**) Room B: Civic Hall

T01-01 Development of CAR technology coping with cancer immune evasion

Koji Tamada Department of Immunology, Yamaguchi University Graduate School of Medicine

T01-02 Aiming for the development of effective cell therapy for solid tumors

Yoshihiro Miyahara Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine

Sony Corporation

11:45-12:45, Wednesday, December 7

T02 Technical Seminar 02 LIVE (*) Room E: Conference Room A3

Chairperson: Yuki Kagoya (Aichi Cancer Center Research Institute)

T02-01 CRISPR screening in immune cells: from manipulation to application

Kalvin Sahota Horizon Discovery Biosciences Limited

Horizon Discovery K.K.

11:45-12:45, Wednesday, December 7

T03 Technical Seminar 03 LIVE (*) Room F: Conference Room A4

Chairperson: Kiyoshi Hirahara (Graduate School of Medicine, Chiba University)

T03-01 3D chromatin structure dynamics during dendritic cell differentiation and activation

Daisuke Kurotaki Laboratory of Chromatin Organization in Immune Cell Development, IRCMS, Kumamoto University

TOMY DIGITAL BIOLOGY CO., LTD.

11:45-12:45, Wednesday, December 7

T04 Technical Seminar 04 LIVE (•) Room H: Conference Room D1&D2

T04-01 40+ true high-parameter imaging protein analyses

Rieko Ikeda Standard BioTools K.K.

T04-02 New insights in the pathogenesis of atopic dermatitis and sarcoidosis

Kenji Kabashima Department of Dermatology, Kyoto University School of Medicine

Standard BioTools K.K.

11:45-12:45, Thursday, December 8

T05 Technical Seminar 05 LIVE (•) Room E: Conference Room A3

Chairperson: Mamoru Harada (Department of Immunology Shimane University Faculty of Medicine)

T05-01 Novel CAR-T Cell Platform for Treatment of Solid Tumors

Koji Tamada Yamaguchi University Graduate School of Medicine

Beckman Coulter K.K.

11:45-12:45, Thursday, December 8

T06 Technical Seminar 06 LIVE (•) Room H: Conference Room D1&D2

T06-01 Study of disorder-specific macrophage subtypes -Towards understanding the mechanism of fibrosis onset-

Takashi Satoh Department of Immune Regulation, Graduate School and Faculty of Medicine, Tokyo Medical and Dental University (TMDU)

Thermo Fisher Scientific

11:45-12:45, Thursday, December 8

T07 Technical Seminar 07 LIVE (•) Room I: Conference Room E1&E2

T07-01 Quantifying the power of the immune system to fight cancer using the Incucyte(R) Live-Cell Analysis Platform

Nicola Bevan Manager, Cell Imaging Applications, SARTORIUS

SARTORIUS JAPAN K.K.

11:45-12:45, Friday, December 9

T08 Technical Seminar 08 LIVE (**) Room C: Conference Room A1

T08-01 Novel approaches to immunology research using image enabled cell analysis and sorting ~次世代 高速イメージングセルソーターのご紹介、"ソーティングを次のステージへ"~

A Middlebrook BD Biosciences, San Jose, CA

Nippon Becton Dickinson Company, Ltd.

T09 Technical Seminar 09 LIVE (••) Room G: Conference Room C1&C2

Chairperson: Shintaro Tanaka (Leica Microsystems K.K.)

T09-01 New normal of fluorescence microscopy and fluorescence lifetime imaging

Nobuhide Tsurumaki Leica Microsystems K.K.

T09-02 New normal of fluorescence microscopy and fluorescence lifetime imaging

Suguru Osari Leica Microsystems K.K.

Leica Microsystems K.K.

Clinical Seminar

Clinical Seminar

11:45-12:45, Wednesday, December 7

C01 Clinical Seminar 01 LIVE (*) Room C: Conference Room A1

Chairperson: Hiroaki Dobashi (Department of Internal Medicine, Division of Hematology, Rheumatology and Respiratory Medicine, Faculty of Medicine, Kagawa Univ)

C01-01 Reconsidering IL-6 receptor inhibition in autoimmune arthritis -Relation to neutrophils, their extracellular traps, and citrullinated proteins in joints-

Isao Matsumoto Department of Rheumatology, Faculty of Medicine, University of Tsukuba

C01-02 Remission with rheumatoid arthritis treatment

Katsuya Suzuki Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine

CHUGAI PHARMATICAL CO., LTD.

11:45-12:45, Wednesday, December 7

C02 Clinical Seminar 02 LIVE (**) Room D: Conference Room A2

Chairperson: Yutaka Kawakami (Department of Immunology, School of Medicine, International University of Health and Welfare)

C02-01 Patient stratification and optimization of combined immunotherapy

Shohei Koyama Division of Cancer Immunology, Research Institute/Exploratory Oncology Research & Clinical Trial Center (EPOC), National Cancer / Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine

MSD K.K.

11:45-12:45, Wednesday, December 7

C03 Clinical Seminar 03 LIVE (•) Room G: Conference Room C1&C2

Chairperson: Takanori Kanai (School of Medicine, Department of Internal Medicine (Gastroenterology and Hepatology), Keio University)

C03-01 Intestinal immunity and the treatment of inflammatory bowel disease.

Yohei Mikami Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine

C03-02 Importance of Treat-to-Target Strategies in Inflammatory Bowel Disease

Toshimitsu Fujii Tokyo Medical and Dental University, Department of Gastroenterology and Hepatology

Janssen Pharmaceutical K.K. / Mitsubishi Tanabe Pharma Corporation

11:45-12:45, Thursday, December 8

C04 Clinical Seminar 04 LIVE (Room B: Civic Hall

Chairperson: Takanori Kanai (School of Medicine, Department of Internal Medicine (Gastroenterology and Hepatology), Keio University)

C04-01 Recent progress of integrin research and integrin-targeted therapeutics for immune diseases

Tatsuo Kinashi Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University

Takeda Pharmaceutical Company Limited

11:45-12:45, Thursday, December 8

C05 Clinical Seminar 05 LIVE (*) Room C: Conference Room A1

Chairperson: Tetsuji Sawada (TOKYO MEDICAL UNVERSITY HOSPITAL)

C05-01 Advances in Muti-omic research on Rheumatoid Arthritis

Katsuya Suzuki Division of Rheumatology, Department of Internal Medicine Keio University School of Medicine

C05-02 Treatment Strategy for Rheumatoid Arthritis Patients with Chronic Kidney Disease

Naoki Sawa Departments of Nephrology and Rheumatology Toranomon Hospital

ASAHI KASEI Pharma

11:45-12:45, Thursday, December 8

C06 Clinical Seminar 06 LIVE (**) Room D: Conference Room A2

Chairperson: Takahiko Horiuchi (Kyushu University Beppu Hospital , Department of Rheumatology, Hematology and Metabolic Diseases)

C06-01 The pathogenesis and treatment strategy for rheumatoid arthritis

Michihito Kono Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University

C06-02 Intestinal Immunity and JAKs

Atsushi Mizoguchi Chairman and Professor, Department of Immunology, Kurume University School of Medicine

Pfizer Japan Inc

11:45-12:45, Thursday, December 8

C07 Clinical Seminar 07 LIVE (*) Room F: Conference Room A4

Chairperson: Takuji Iwamoto (Department of orthopedic surgery, Keio University School of Medicine)

C07-01 The role of RANKL in bone and the immune system

Hiroshi Takayanagi Department of Immunology Graduate School of Medicine and Faculty of Medicine The University of Tokyo

DAIICHI SANKYO COMPANY, LIMITED

11:45-12:45, Friday, December 8

C08 Clinical Seminar 08 LIVE (*) Room G: Conference Room C1&C2

C08-01 Developing therapies to target immune regulation: towards antigen-specific immunosuppression

Shimon Sakaguchi Laboratory of Experimental Immunology, WPI Immunology Frontier Research Center, Osaka University

Otsuka Pharmaceutical Co., Ltd.

11:45-12:45, Friday, December 9

C09 Clinical Seminar 09 LIVE (*) Room B: Civic Hall

Chairperson: Tsutomu Takeuchi (Vice President of Saitama Medial University/Emeritus Professor, Keio University)

C09-01 Progress in treatment strategies for spondylarthritis: precision medicine for psoriatic arthritis

Yoshiya Tanaka The First Department of Internal Medicine, University of Occupational and Environmental Health, Japan

Novartis Pharma K.K.,

11:45-12:45, Friday, December 9

C10 Clinical Seminar 10 LIVE (**) Room D: Conference Room A2

Chairperson: Takanori Kanai (Department of Gastroenterology and Hepatology, Keio University School of Medicine)

C10-01 Cancer immunotherapy and tumor microenvironment

Yosuke Togashi Department of Tumor Microenvironment, Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University

ONO PHARMACEUTICAL CO., LTD

11:45-12:45, Friday, December 9

C11 Clinical Seminar 11 LIVE (**) Room E: Conference Room A3

Chairperson: Kenji Kabashima (Graduate School of Medicine and Faculty of Medicine Kyoto University)

C11-01 Discovery Story: Journey to the Birth of Upadacitinib

JOCHENG SALFELD AbbVie GK Vice President Immunology & Virology Discovery Research ABC/CRC Site Head Distinguished Research Fellow

C11-02 Upadacitinib, a Janus-kinase inhibitor, for the treatment of atopic dermatitis

Tetsuya Honda Department of Dermatology, Hamamatsu University School of Medicine

AbbVie GK

11:45-12:45, Friday, December 9

C12 Clinical Seminar 12 LIVE (*) Room F: Conference Room A4

Chairperson: Masato Kubo (RIKEN/Tokyo University of Science)

C12-01 Multiple inflammatory cytokines shape the pathogenicity of memory CD4⁺T cells during chronic allergic inflammation

Kiyoshi Hirahara Department of Immunology, Graduate School of Medicine, Chiba University

C12-02 Distinct roles for IL-4 and IL-13 in type 2 inflammation

Ariel Munitz Department of Clinical Microbiology and Immunology, Faculty of Medicine, Tel Aviv University

Specialty Care Medical, Sanofi K.K.

Clinical Evening Seminar

Clinical Evening Seminar

19:30-20:45, Wednesday, December 7

CE01 Clinical Evening Seminar 01 LIVE (*) Room F: Conference Room A4

Chairperson: Tsutomu Takeuchi (Vice President of Saitama Medial University/Emeritus Professor, Keio University)

CE01-1 Andomized comparison between reduced dose and maximum tolerable dose of concomitant methotrexate at adalimumab initiation in patients with rheumatoid arthritis with inadequate response to methotrexate; MIRACLE study

Hiroya Tamai Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine

CE01-2 Optimal use of methotrexate in the management of rheumatoid arthritis

Yuko Kaneko Division of Rheumatology, Department of Internal Medicine, Keio University School lof Medicine

Eisai Co., Ltd.

Afternoon Seminar

Afternoon Seminar

12:55-13:55, Thursday, December 7

A01 Afternoon Seminar 01 LIVE (*) Room B: Civic Hall

Chairpersons: Shigeo Koyasu (RIKEN Center for Integrative Medical Sciences, Laboratory for Immune Cell Systems)

Akihiko Yoshimura (School of Medicine, Department of Microbiology and Immunology, Keio Univesity)

A01-01 T follicular helper cells in blood mirror salivary gland-infiltrating T cells in primary Sjogren's syndrome

Saori Abe Department of Rheumatology, Institute of Medicine, University of Tsukuba

A01-02 Localization of T cells in lymphoid tissues and expression of Regnase-1 contribute to the development of autoimmune diseases

Keiko Yasuda Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

TOMY DIGITAL BIOLOGY CO., LTD.

12:55-13:55, Thursday, December 8

A02 Afternoon Seminar 02 LIVE (**) Room B: Civic Hall

Chairpersons: Shigeo Koyasu (RIKEN Center for Integrative Medical Sciences, Laboratory for Immune Cell Systems)

Akihiko Yoshimura (School of Medicine, Department of Microbiology and Immunology, Keio Univesity)

A02-01 Fatty acid metabolism in the generation of memory precursor population of CD4⁺T cells

Yusuke Endo Laboratory of Medical Omics Research, KAZUSA DNA RESEARCH INSTITUTE

A02-02 Group 2 innate lymphoid cells exacerbate allergic inflammation by increasing allergic susceptibility

Yasutaka Motomura Laborator

Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University / Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC) / Laboratory for Innate Immune Systems, RIKEN IMS

A02-03 Tumor-infiltrating PD-1+ effector T cells and reguratory T cells as novel biomarkers and therapeutic targets for cancer immunotherapies

Yosuke Togashi Department of Tumor Microenvironment, Faculty of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University

Nippon Becton Dickinson Company, Ltd.

Evening Seminar

Evening Seminar

19:30-20:45, Wednesday, December 7

E01 Evening Seminar 01 LIVE (*) Room C: Conference Room A1

細胞と免疫

免疫学の進むべき道

座長:茂呂 和世(大阪大学医学系研究科)

pDC は何者か?

座長:樗木 俊聡 (東京医科歯科大学)

E01 Cruising in the cell

Atsushi Miyawaki RIKEN Center for Brain Science Laboratory for Cell Function Dynamics / RIKEN Center for Advanced Photonics Biotechnological Optics Research Team

Moderna Japan Co., Ltd

19:30-20:45, Wednesday, December 7

E02 Evening Seminar 02 LIVE (*) Room D: Conference Room A2

脳神経代謝と免疫 神経回路と免疫系の新たなクロストーク学の創成にむけて

ゲートウェイ反射による組織特異的炎症誘導機構

座長:村上 正晃 (北海道大学遺伝子)

中枢神経系の免疫・非免疫機能を司る多様なマクロファージ

座長:増田 隆博(九州大学薬学研究科)

E02 臓器間ネットワークによる個体レベルでの恒常性維持機構の解明と代謝疾患制御

片桐 秀樹 東北大学大学院医学系研究科糖尿病代謝内科学分野

19:30-20:45, Wednesday, December 7

E03 Evening Seminar 03 LIVE (•) Room E: Conference Room A3

感染と免疫 ウイルス学と免疫学のコラボの最適解

新型コロナウイルスの進化

座長:佐藤佳(東京大学医科学研究所)

次のパンデミックに100日でワクチンを世界に提供するには?

座長:石井健(東京大学医科学研究所)

E03 Addressing the threat of emerging viral infections

河岡 義裕 National Center for Global Health and Medicine / University of Tokyo / University of Wisconsin-Madison

Moderna Japan Co., Ltd

18:45-20:00, Thursday, December 8

DD E04 Evening Seminar 04 LIVE (*) Room C: Conference Room A1

RNA 創薬 ~免疫学との接点~

RNA 創薬 ~免疫学との接点~

座長:竹内理(京都大学)

mRNA 創薬 〜パンデミックからの学び〜

座長:萩原 百合子 (モデルナ・ジャパン)

E04 mRNA therapeutics: Present and future

位高 啓史 東京医科歯科大学 生体材料工学研究所 / 大阪大学 感染症総合教育研究拠点

18:45-20:00, Thursday, December 8

OD E05 Evening Seminar 05 LIVE (*) Room D: Conference Room A2

合成情報生物と免疫

合成免疫学の魅力~免疫系は「調べる」時代から「創る」時代へ~

座長:伊川 友活(東京理科大学生命医科学研究所)

機能ゲノム学による自己免疫疾患の病態解明

座長:石垣 和慶 (理化学研究所)

E05 HD Video Recorder of the Cell

谷内江 望 UBC, University of British Columbia School of Biomedical Engineering (SBME)

Moderna Japan Co., Ltd

18:45-20:00, Thursday, December 8

E06 Evening Seminar 06 LIVE (•) Room E: Conference Room A3

再生医療と免疫

細胞を薬剤として使う戦略:現状と課題

座長:河本宏(京都大学)

単純化のすゝめ

座長:山崎 聡 (筑波大学, 医学医療系)

E06 ヒト肝臓オルガノイドを用いた代謝・炎症性肝疾患研究

Takebe Takanori

Institute of Research, Tokyo Medical and Dental University / Communication Design Center, Yokohama City University / Center for Stem Cell and Organoid Medicine, Cincinnati Children's Hospital Medical Center / Division of Gastroenterology, Hepatology and Nutrition and Division of Developmental Biology, Cincinnati Children's Hospital Medical Center Professor, Tokyo Medical and Dental University

OD E07 Evening Seminar 07 LIVE (*) Room F: Conference Room A4

老化・AI と免疫

T細胞の老化疲弊と老化関連疾患

座長:吉村 昭彦 (慶應義塾大学)

数理モデルによる CAR シグナルの挙動の予想と新規 CAR の構築

座長:近藤 泰介 (NCI, USA)

E07 老化に伴う慢性炎症病態と免疫

中西 真 Institute of Medical Science, University of Tokyo

Young Academy Program

Young Academy Program

20:05-21:15, Thursday, December 8

若手座談会(フォーラム) LIVE (*) Room B: Civic Hall

免疫学の未来

若手研究者を中心にキャリアパスや研究について語り合いましょう!

企画、進行:鈴木 忍(京都大学)

アシスト:安藤眞(慶應義塾大学)、田中ゆり子(東邦大学)、角南理己(京都大学)、安田圭子(京都大学)

共 催:免疫若手アカデミー

登 壇 者:免疫若手アカデミーメンバー他

日本免疫学会からのお知らせ

特定非営利活動法人日本免疫学会からのお知らせ

1. 学会のホームページアドレス

日本免疫学会から会員の皆様へのお知らせは、ホームページを通じて行っておりますので、随時ご覧ください。

ホームページアドレス:https://www.jsi-men-eki.org/

2. 会員への電子メールによる情報配信について

日本免疫学会では、電子メールにて、会員の皆様への緊急なお知らせやお願いを配信しております。未だメールアドレスを会員データベースに登録されていない方は、至急会員専用ページ (https://www.men-eki.org/meneki_web/jsp/welcome.html) よりご登録いただくか、学会事務局 (info@meneki.or.jp) へご連絡ください。

3. 会費納入について

本学会は、10 月 1 日より、新年度(2023 年度 <2022 年 10 月 1 日~2023 年 9 月 30 日 >)となりました。新年度の会費は、学会事務局より送付いたしました「年会費用振替用紙」にてお振込みいただくか、会員専用ページ($https://www.men-eki.org/meneki_web/jsp/welcome.html) より簡便なクレジットカードによる会費決済をおこなえますので、より多くの会員の皆様にご利用をお願い申し上げます。クレジットカード決済の際に、年会費と併せて寄附金を納付いただける場合に限り、クレジット手数料は無料(全額学会負担)となります。$

新規入会の方は、学会ホームページ「入会申込」のボタンより、オンラインで手続きをお願いいたします。

4. 2023 年度 特定非営利活動法人日本免疫学会役員(各五十音順)

理事長:小安重夫

(2022年12月31日迄)

黒崎知博

(2023年1月1日から2024年12月31日迄)

理 事: 久保允人、黒崎知博、反町典子、中山俊憲、三宅健介、山崎 晶、吉村昭彦

(2022年12月31日迄)

图山峰牌* 株自健治 河木 字 能) 娜 這 述父 彰 宣帅 庁 始田 遫 三字妻子 山

岡田峰陽*、椛島健治、河本 宏、熊ノ郷 淳、渋谷 彰、高柳 広、竹田 潔、三宅幸子、山崎 晶*

(2023年1月1日から2024年12月31日迄)

荒瀬 尚、石井 健、樗木俊聡、大野博司、渋谷和子、新藏礼子、竹内 理

(2023年1月1日から2026年12月31日迄)

*理事長推薦理事につき 2022 年 12 月 14 日開催の通常総会にて承認後

監事:清野宏、山本一彦

(2022年12月31日迄)

小安重夫、岩倉洋一郎

(2023年1月1日から2024年12月31日迄)

5. 日本免疫学会へのご寄附のお願い

ご存じのとおり、本学会は、2005 年度の NPO 法人化を機に、社会貢献活動にも積極的に取り組み、「免疫ふしぎ未来」をはじめとして、一般社会に対して、より広く免疫学の魅力と重要性をアピールする活動も広げ、免疫研究への一層の理解と、啓蒙に努めております。

その一方で、収入の減少及び消費税値上げ等により、実質的な資産の減少が著しく、これまで、各種事業の見直し等、 学会として対応策を講じてまいりましたが、年々、健全な学会運営をとりまく環境は厳しくなっております。

皆様のご協力のお蔭で、本学会は2016年11月7日をもちまして、本認定特定非営利活動法人として認定されましたが、本認定期間においても、より多くの方々(毎年100名以上)からの寄附があることが認定継続の要件となっております。 つきましては、今後、社会へのより一層の貢献のために、各種事業による免疫学の普及啓発事業等の活動をさらに発展させ、本学会の財政健全化のためにも、より多くの皆様からの寄附を募集いたします。

寄附のお申し込みの詳細につきましては、本学会ホームページ、ご寄附のお願い(https://www.jsi-men-eki.org/kifu/)をご覧ください。クレジットカードでのお支払いも可能です。また、会員専用ページ (https://www.men-eki.org/meneki_web/jsp/welcome.html)より、年会費と併せて寄附金を納付いただければ、クレジット決済手数料は無料(全額学会負担)となりますので、本学会活動にご理解とご賛同をいただき、ご支援・ご協力をいただければ幸いです。なお、本学会の主たる目的である業務に関係する寄附金は、個人・法人ともに税法上の優遇措置が与えられます。ご不明な点等ありましたら、下記の学会事務局までお問い合わせください。

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Harada, Takuya	WS23-08-O/P	Hayashi, Tomonori	WS23-14-P	Hirata, Yuichi	S13-04	Hoshizaki, Midori	WS27-23-O/P
Harada, Yasuyo Harada, Yohsuke	○WS21-04-O/P WS09-02-O/P	Hayashi Tamaya	○WS26-23-P WS27-18-P	Hiratsuka, Hiroyuki	WS11-26-P WS12-10-P	Hosokawa, Hiroyuki	WS28-05-O/P
Harada, Yoshihiro	WS16-12-O/P	Hayashi, Tomoya Hayashi, Yoshihiro	WS20-05-O/P	Hirayama, Kenji	WS15-01-O/P	nosokawa, niioyuki	WS01-01-0/P WS01-12-P
Harada, Yosuke	∘WS19-12-O/P	•	WS05-11-O/P	Hirayama, Takehiro	·WS15-01-0/P	Hosokawa, Takanats	
Harada, Yuka	WS20-05-O/P	Hayashizaki, Koji Hayatsu, Norihito	WS26-04-O/P	Hirayasu, Kouyuki	WS03-04-O/P	HUSUKawa, Takanan	WS16-07-O/P
Harata, Gaku	WS19-06-P	Hayday, Adrian	WS02-07-O/P	riiiayasu, Nouyuki	WS30-04-P	Hosomi, Koji	WS09-07-O/P
Harigae, Hideo	WS01-15-P	Hayee, Abdul	•WS26-09-O/P	Hiroki, Mukoyama	WS07-08-P	riosomi, roji	WS13-13-O/P
riangae, riideo	WS11-08-P	riayee, Abdui	WS26-16-P	Hirose, Shiho	∘WS27-03-P		WS19-03-O/P
Harimoto, Kozo	WS06-19-P	Hayman, Hannah	WS02-07-O/P	Hirota, Keiji	WS07-08-P		WS30-03-O/P
Hase, Koji	WS06-05-O/P	Hazama, Shunsuke		rinota, rtoiji	WS15-09-O/P	Hosomi, Kosuke	WS22-12-P
riase, regi	WS09-18-P	He, Ka	○WS05-04-P		WS25-09-O/P	Hosono, Akira	WS19-23-P
	WS16-07-O/P	Heiss, Kirsten	oWS12-03-P	Hisaeda, Hajime	WS12-19-P	Hosono, Yuki	○WS18-06-O/P
	WS19-18-O/P	Hemmi, Hiroaki	WS29-10-O/P	Hisato, Riku	WS08-15-P	Hosoya, Tadashi	○WS12-06-O/P
	WS20-04-O/P	Hérou, Célia	WS12-01-P	Hisatome, Ichiro	WS14-16-P	riodoya, radaorii	WS17-05-O/P
	WS24-16-P	Hess, Christoph	°S15-01	Hiwa, Ryosuke	○WS13-01-O/P	Hotta, Akitsu	WS23-04-O/P
	WS19-14-O/P	Hiai, Hiroshi	WS24-03-P	Hiyoshi, Hirotaka	○WS12-12-O/P	Hozumi, Katsuto	WS01-01-O/P
Hasebe, Rie	WS15-05-O/P	Hida, Ayumi	WS26-23-P	Ho, Ping-Chih	WS27-27-P		WS01-12-P
	WS19-10-P	Hidai, Riko	WS04-10-P	Ho, Tuyen Thuy Bich			WS13-07-O/P
Hasegawa, Atsuhik	(0	,	○WS04-18-P	Hoehn, Kenneth	WS18-25-P	Hu, Xin	○WS02-05-P
	○WS28-20-P	Hidaka, Reiko	∘WS13-08-P	Hohjoh, Hirohiko	WS06-06-O/P	Huang, Yin	WS02-02-O/P
Hasegawa, Gen	○WS28-20-P ○WS03-04-O/P	Hidaka, Reiko Higasa, Koichiro	○WS13-08-P WS17-09-O/P	Hohjoh, Hirohiko Hojyo, Shintaro	WS06-06-O/P •WS17-06-O/P	Huang, Yin Huang, Yuming	WS02-02-O/P •WS13-10-O/P
Hasegawa, Gen Hasegawa, Hideak	○WS03-04-O/P					•	
-	○WS03-04-O/P	Higasa, Koichiro	WS17-09-O/P WS23-04-O/P		○WS17-06-O/P	Huang, Yuming	○WS13-10-O/P
Hasegawa, Hideak	∘WS03-04-O/P i WS17-13-O/P	Higasa, Koichiro Higashi, Natsumi	WS17-09-O/P WS23-04-O/P	Hojyo, Shintaro	○WS17-06-O/P WS19-10-P	Huang, Yuming Huizar, John P.	○WS13-10-O/P WS13-01-O/P
Hasegawa, Hideak Hasegawa, Hideki	∘WS03-04-O/P i WS17-13-O/P WS12-06-O/P	Higasa, Koichiro Higashi, Natsumi	WS17-09-O/P WS23-04-O/P ka ©WS11-12-P	Hojyo, Shintaro Honda, Haruka	oWS17-06-O/P WS19-10-P WS13-02-P	Huang, Yuming Huizar, John P. Husain, Afzal	oWS13-10-O/P WS13-01-O/P WS08-10-O/P
Hasegawa, Hideak Hasegawa, Hideki	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul	WS17-09-O/P WS23-04-O/P ka ©WS11-12-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya	○WS17-06-O/P WS19-10-P WS13-02-P ○OT16	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric	○WS13-10-O/P WS13-01-O/P WS08-10-O/P ○S05-03
Hasegawa, Hideak Hasegawa, Hideki	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul	WS17-09-O/P WS23-04-O/P ka ∘WS11-12-P ki WS08-14-O/P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki	○WS17-06-O/P WS19-10-P WS13-02-P ○OT16 WS21-21-P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric	○WS13-10-O/P WS13-01-O/P WS08-10-O/P ○S05-03
Hasegawa, Hideak Hasegawa, Hideki Hasegawa, Ichita	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul Higashiyama, Mizul	WS17-09-O/P WS23-04-O/P ka	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki	•WS17-06-O/P WS19-10-P WS13-02-P •OT16 WS21-21-P •OT14	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric	○WS13-10-O/P WS13-01-O/P WS08-10-O/P ○S05-03
Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Tatsuya	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul Higashiyama, Mizul Higgins, Matthew	WS17-09-0/P WS23-04-0/P Ka ·WS11-12-P ki WS08-14-0/P ·WS08-15-P WS03-08-0/P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya	•WS17-06-O/P WS19-10-P WS13-02-P •OT16 WS21-21-P •OT14 WS07-20-P WS09-07-O/P C11-02	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric	○WS13-10-O/P WS13-01-O/P WS08-10-O/P ○S05-03 ○WS29-06-O/P
Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Tatsuya	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P aki	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul Higashiyama, Mizul Higgins, Matthew Higuchi, Masaya	WS17-09-0/P WS23-04-0/P Ka WS11-12-P Ki WS08-14-0/P WS08-15-P WS03-08-0/P WS12-21-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki	•WS17-06-O/P WS19-10-P WS13-02-P •OT16 WS21-21-P •OT14 WS07-20-P WS09-07-O/P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric	○WS13-10-O/P WS13-01-O/P WS08-10-O/P ○S05-03
Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Tatsuya Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P aki oWS19-21-P WS23-16-P WS27-07-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Haruk Higashiyama, Mizuk Higgins, Matthew Higuchi, Masaya Higuchi, Shuhei Higuchi, Tomoaki	WS17-09-O/P WS23-04-O/P Ka •WS11-12-P ki WS08-14-O/P •WS08-15-P WS03-08-O/P WS12-21-P •WS03-12-P WS03-12-P •WS31-07-O/P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko	•WS17-06-O/P WS19-10-P WS13-02-P •OT16 WS21-21-P •OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku	•WS13-10-O/P WS13-01-O/P WS08-10-O/P •S05-03 •WS29-06-O/P
Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Tatsuya Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka Hashimoto, Hinata	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P aki oWS19-21-P WS23-16-P WS27-07-P WS28-16-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Haruk Higashiyama, Mizuk Higgins, Matthew Higuchi, Masaya Higuchi, Shuhei	WS17-09-O/P WS23-04-O/P Ka •WS11-12-P Ki WS08-14-O/P •WS08-15-P WS03-08-O/P WS12-21-P •WS03-12-P WS03-12-P WS31-07-O/P •WS13-02-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko Honda Keith, Yuki	•WS17-06-O/P WS19-10-P WS13-02-P •OT16 WS21-21-P •OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P WS07-20-P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku Ichikawa, Juri	•WS13-10-O/P WS13-01-O/P WS08-10-O/P •S05-03 •WS29-06-O/P WS10-04-O/P WS04-07-P •WS27-17-P
Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Tatsuya Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka Hashimoto, Hinata Hashimoto, Mayuka	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P aki oWS19-21-P WS23-16-P WS27-07-P WS28-16-P o oWS21-18-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Haruk Higashiyama, Mizuk Higgins, Matthew Higuchi, Masaya Higuchi, Shuhei Higuchi, Tomoaki Hikida, Masaki	WS17-09-O/P WS23-04-O/P Ka WS11-12-P Ki WS08-14-O/P WS08-15-P WS03-08-O/P WS12-21-P WS03-12-P WS31-07-O/P WS13-02-P WS28-21-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko	•WS17-06-O/P WS19-10-P WS13-02-P •OT16 WS21-21-P •OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P WS07-20-P S12-01	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku Ichikawa, Juri Ichikawa, Saori	•WS13-10-O/P WS13-01-O/P WS08-10-O/P •S05-03 •WS29-06-O/P WS10-04-O/P WS04-07-P •WS27-17-P WS09-06-O/P
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Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Ichita Hasegawa, Tatsuya Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka Hashimoto, Hinata Hashimoto, Rina Hashimoto, Ryuji	oWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P kki oWS19-21-P WS23-16-P WS27-07-P WS28-16-P o oWS21-18-P WS08-01-O/P WS11-21-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Haruk Higashiyama, Mizuk Higgins, Matthew Higuchi, Masaya Higuchi, Shuhei Higuchi, Tomoaki Hikida, Masaki	WS17-09-O/P WS23-04-O/P Ka WS11-12-P Ki WS08-14-O/P WS08-15-P WS03-08-O/P WS12-21-P WS03-12-P WS31-07-O/P WS13-02-P WS28-21-P WARI WS22-10-O/P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko Honda Keith, Yuki	○WS17-06-O/P WS19-10-P WS13-02-P ○OT16 WS21-21-P ○OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P WS07-20-P S12-01 WS08-10-O/P WS18-18-P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku Ichikawa, Juri Ichikawa, Saori Ichimiya, Shingo	•WS13-10-O/P WS13-01-O/P WS08-10-O/P •S05-03 •WS29-06-O/P WS10-04-O/P WS04-07-P •WS27-17-P WS09-06-O/P WS18-11-P WS25-08-P
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Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Ichita Hasegawa, Tatsuya Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka Hashimoto, Hinata Hashimoto, Rina Hashimoto, Ryuji Hashimoto, Shinich	OWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P eki OWS19-21-P WS23-16-P WS27-07-P WS28-16-P O OWS21-18-P WS08-01-O/P WS11-21-P ni WS08-02-P WS27-20-O/P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Haruk Higashiyama, Mizuk Higgins, Matthew Higuchi, Masaya Higuchi, Shuhei Higuchi, Tomoaki Hikida, Masaki Hikosaka-Kuniishi, M	WS17-09-O/P WS23-04-O/P Ka WS11-12-P Ki WS08-14-O/P WS08-15-P WS03-08-O/P WS12-21-P WS03-12-P WS31-07-O/P WS13-02-P WS28-21-P WARI WS22-10-O/P WS12-21-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko Honda Keith, Yuki	○WS17-06-O/P WS19-10-P WS13-02-P ○OT16 WS21-21-P ○OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P WS07-20-P S12-01 WS08-10-O/P WS18-18-P WS24-02-O/P WS24-03-P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku Ichikawa, Juri Ichikawa, Saori Ichimiya, Shingo Ichioka, Satoko Ichiyama, Kenji	•WS13-10-O/P WS08-10-O/P WS08-10-O/P •S05-03 •WS29-06-O/P WS10-04-O/P WS04-07-P •WS27-17-P WS09-06-O/P WS18-11-P WS25-08-P •WS31-01-O/P •WS16-02-O/P
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Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Ichita Hasegawa, Ichita Hasegawa, Ichita Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka Hashimoto, Hinata Hashimoto, Rina Hashimoto, Shinich Hashimoto-Tane, A Hatai, Shunya Hatakeyama, Shigu Hatano, Hiroaki Hatano, Horoaki Hatano, Ryo Hatano, Shinya Hatazawa, Sara	OWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P liki OWS19-21-P WS23-16-P OWS21-18-P WS08-01-O/P WS11-21-P ni WS08-02-P WS27-20-O/P kikiko WS26-13-P OWS21-18-P WS02-15-P WS02-15-P WS04-02-P OWS09-19-P WS15-19-P OWS09-19-P WS17-05-O/P OWS04-10-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul Higashiyama, Mizul Higashiyama, Mizul Higgins, Matthew Higuchi, Masaya Higuchi, Tomoaki Hikida, Masaki Hikosaka-Kuniishi, I Himeda, Toshiki Hino, Masayuki Hioki, Kou Hirahara, Kiyoshi Hirahara, Kiyoshi Hirahara, Koichi Hirai, Hirofumi Hirai, Toyohiro	WS17-09-O/P WS23-04-O/P Ka WS11-12-P Ki WS08-14-O/P WS08-15-P WS03-08-O/P WS12-21-P WS03-12-P WS31-07-O/P WS13-02-P WS13-02-P WS28-21-P Mari WS22-10-O/P WS12-21-P WS27-06-P WS27-18-P S04-03 WS12-07-O/P WS21-13-P CC12-01 WS04-10-P WS04-10-P WS04-16-P WS07-05-O/P WS10-21-P WS01-21-P WS01-21-P WS01-21-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko Honda Keith, Yuki Honjo, Tasuku Hontsu, Shigetp Honzawa, Tatsuma Hori, Shohei Horie, Kenta Horiguchi, Shuhei	○WS17-06-O/P WS19-10-P WS13-02-P ○OT16 WS21-21-P ○OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P WS09-20-P WS07-20-P S12-01 WS08-10-O/P WS18-18-P WS24-02-O/P WS24-03-O/P WS27-04-P WS27-04-P WS27-14-O/P WS31-16-P WS11-19-P ○WS25-01-P ○S05-04 WS09-12-P WS10-03-O/P WS16-01-O/P WS16-01-O/P WS16-03-P WS26-04-O/P ○WS24-19-O/P ○WS22-25-P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku Ichikawa, Juri Ichikawa, Saori Ichimiya, Shingo Ichioka, Satoko Ichiyama, Kenji Ide, Takuma Idei, Akiko Igarashi, Kazuhiko Igarashi, Kazuhiko Igarashi, Kazuhiko Igarashi, Kazuhiko Igarashi, Hideki Iizasa, Ei'Ichi Iizuka, Mana Iizuka, Yuki	●WS13-10-O/P WS13-01-O/P WS08-10-O/P S05-03 ●WS29-06-O/P ●WS10-04-O/P WS04-07-P ●WS27-17-P WS09-06-O/P WS18-11-P WS25-08-P ●WS31-01-O/P WS16-02-O/P WS18-12-P WS09-16-O/P WS18-12-P ●WS18-12-P ●WS18-11-O/P WS29-12-P WS18-12-P ●WS18-12-P ●WS18-17-P WS29-12-P WS18-12-P ●WS18-11-O/P WS27-21-P S16-03 WS09-12-P WS09-16-P WS11-10-O/P WS13-07-O/P
Hasegawa, Hideak Hasegawa, Ichita Hasegawa, Ichita Hasegawa, Ichita Hasegawa, Tatsuya Hashiguchi, Masaa Hashiguchi, Takao Hashimoto, Ayaka Hashimoto, Hinata Hashimoto, Ryuji Hashimoto, Ryuji Hashimoto, Shinich Hashimoto-Tane, A Hatai, Shunya Hatakeyama, Shiga Hatano, Hiroaki Hatano, Hasahiko Hatano, Ryo Hatano, Shinya Hatazawa, Sara Hatsuzawa, Saki	OWS03-04-O/P i WS17-13-O/P WS12-06-O/P WS01-13-P WS02-04-O/P WS01-16-P a WS10-11-P liki OWS19-21-P WS23-16-P OWS21-18-P WS08-01-O/P WS11-21-P ni WS08-02-P WS27-20-O/P kikiko WS26-13-P OWS19-03-O/P etsugu WS02-15-P WS04-02-P WS04-02-P WS09-19-P WS15-19-P OWS02-12-P WS02-12-P WS02-12-P WS07-00-P	Higasa, Koichiro Higashi, Natsumi Higashiyama, Harul Higashiyama, Mizul Higashiyama, Mizul Higgins, Matthew Higuchi, Masaya Higuchi, Shuhei Higuchi, Tomoaki Hikida, Masaki Hikosaka-Kuniishi, I Himeda, Toshiki Hino, Masayuki Hioki, Kou Hirahara, Kiyoshi Hirahara, Kiyoshi Hirahata, Koichi Hirai, Hirofumi Hirai, Toyohiro Hiraide, Kyoga	WS17-09-O/P WS23-04-O/P Ka WS11-12-P Ki WS08-14-O/P WS08-15-P WS03-08-O/P WS12-21-P WS03-12-P WS31-07-O/P WS13-02-P WS13-02-P WS28-21-P Mari WS22-10-O/P WS12-21-P WS12-21-P WS12-21-P WS12-21-P WS12-21-P WS12-06-P WS27-06-P WS27-18-P S04-03 WS12-07-O/P WS21-13-P CC12-01 WS04-10-P WS04-10-P WS04-16-P WS07-05-O/P WS10-21-P	Hojyo, Shintaro Honda, Haruka Honda, Kenya Honda, Naoki Honda, Tetsuya Honda, Yoshitaka Honda, Yuko Honda Keith, Yuki Honjo, Tasuku Hontsu, Shigetp Honzawa, Tatsuma Hori, Shohei	○WS17-06-O/P WS19-10-P WS13-02-P ○OT16 WS21-21-P ○OT14 WS07-20-P WS09-07-O/P C11-02 WS29-10-O/P WS09-20-P WS07-20-P S12-01 WS08-10-O/P WS18-18-P WS24-02-O/P WS24-03-O/P WS27-04-P WS27-14-O/P WS31-16-P WS11-19-P ○WS25-01-P ○S05-04 WS09-12-P WS10-03-O/P WS16-01-O/P WS16-01-O/P WS16-03-P WS26-04-O/P ○WS24-19-O/P	Huang, Yuming Huizar, John P. Husain, Afzal Huseby, Eric Huynh, Hiep Hung Ibraheem, Yarob Ichihara, Gaku Ichikawa, Juri Ichikawa, Saori Ichimiya, Shingo Ichioka, Satoko Ichiyama, Kenji Ide, Takuma Idei, Akiko Igarashi, Kazuhiko Igarashi, Kazuhiko Igarashi, Kazuhiko Igarashi, Kazuhiko Igarashi, Hideki Iizasa, Ei'Ichi Iizuka, Mana Iizuka, Yuki	•WS13-10-O/P WS13-01-O/P WS08-10-O/P S05-03 •WS29-06-O/P •WS10-04-O/P WS04-07-P •WS27-17-P WS09-06-O/P WS18-11-P WS25-08-P •WS31-01-O/P WS16-02-O/P WS18-11-O/P WS28-12-P WS08-11-O/P WS27-21-P S16-03 WS09-12-P WS09-16-P WS01-10-O/P

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Ikeda, Eriko	WS20-01-P ○WS04-20-P	Inoue, Takeshi	○S07-01 WS08-07-O/P	Ishii, Takashi Ishii, Yumiko	WS21-15-P	Itotagawa, Eri	WS22-04-O/P •WS15-01-O/P
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Ikeda, Shigaku	WS09-06-O/P	Irie, Misato	WS05-19-P	Ishikawa, Mizuki	WS13-02-P	Iwai, Tamaki	○WS15-10-P
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	WS17-09-O/P	Irimura, Tatsuro	S09-03	Ishikura, Asaki	WS16-11-P	Iwai, Yoshiko	WS19-21-P
	WS22-09-O/P	Isaka, Yoshitaka	WS10-20-P	Ishimaru, Naozumi	WS04-08-O/P	Iwakura, Yoichiro	WS06-12-P
	WS22-17-P	Ise, Marii	○WS10-18-P		WS15-06-O/P	Iwamoto, Noriko	○WS02-17-P
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	WS31-09-P	Ishida, Hideharu	WS18-06-O/P	Ito, Daisuke	WS28-22-P	Iwasaki, Motoki	WS06-09-P
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ikuta, Koloni	WS22-20-P	Ishida, Yuko	oWS17-15-P	Ito, Fuyu	WS31-09-P	iwata, Amami	WS18-12-P
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	○WS31-04-O/P	Ishihara, Katsuhiko		Ito, Mamoru	WS23-05-P		WS28-01-O/P
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	WS26-02-O/P	Ishihara, Ryo	WS04-15-P	Ito, Minako	○S15-02	lyoda, Tomonori	WS02-08-O/P
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	○WS28-05-O/P	Ishii, Keiko	WS03-07-O/P		WS10-23-P	Izawa, Kazushi	WS29-10-O/P
Imaizumi, Misa	WS26-23-P	Ishii, Ken	WS28-15-P		WS10-25-P	Izawa, Kumi	WS04-16-O/P
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Imamura, Kosuke	WS11-14-O/P	Ishii, Ken J.	WS03-02-O/P		WS31-20-P		WS21-06-O/P
Imamura, Mitsuru	WS25-05-O/P		WS27-18-P	Ito, Mutsumi	WS28-01-O/P		WS23-09-O/P
Imamura, Takeshi	WS06-20-P		WS28-24-P	Ito, Naoto	WS04-07-P		WS09-09-O/P
Imanishi, Takayuki	○WS18-01-O/P	Ishii, Masaru	○S08-03		WS20-10-O/P	Izumi, Yoshihiro	WS18-06-O/P
Imoto, Yusuke	WS18-03-O/P		WS04-21-P		WS20-11-P		
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Inaba, Mutsumi	WS18-05-O/P		WS11-01-P		WS21-05-O/P		J
Inagaki, Shingo	WS11-15-P		WS16-16-P	Ito, Sachio	WS02-22-P	•	,
Inagaki-Ohara, Kyo			WS20-04-O/P	Ito, Seigo	WS04-19-P	Jankovic, Dragana	WS18-04-O/P
			WS20-20-O/P	, 9 -	WS14-04-P	Jeong, Ae Jin	WS02-25-P
Ino, Hajime	∘WS19-08-P		W320-20-0/F				
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-	WS04-13-O/P •WS24-15-O/P	Ishii Naoto	WS20-21-P WS29-16-P	Ito, Taiki Ito, Toshihiro	WS20-16-P WS10-10-P		WS12-10-P
Inohara, Naohiro	WS04-13-O/P •WS24-15-O/P S10-05	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P	Ito, Taiki Ito, Toshihiro	WS20-16-P WS10-10-P WS02-06-O/P	Jian, Jiun-Yu Jin, Hui	WS12-10-P •WS24-10-O/P WS28-02-O/P
Inohara, Naohiro	WS04-13-O/P •WS24-15-O/P \$10-05 WS19-04-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P		WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P	Jian, Jiun-Yu Jin, Hui Jing, Huie	WS12-10-P
Inohara, Naohiro Inohaya, Asako	WS04-13-O/P •WS24-15-O/P \$10-05 W\$19-04-P W\$29-20-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P		WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide	WS12-10-P
Inohara, Naohiro Inohaya, Asako Inoue, Akiko	WS04-13-O/P •WS24-15-O/P \$10-05 W\$19-04-P W\$29-20-P W\$31-15-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P		WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P	Jian, Jiun-Yu Jin, Hui Jing, Huie	WS12-10-P
Inohara, Naohiro Inohaya, Asako	WS04-13-O/P •WS24-15-O/P S10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P		WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide	WS12-10-P •WS24-10-O/P WS28-02-O/P S06-03 •WS12-04-O/P WS15-01-O/P •WS24-18-P
Inohara, Naohiro Inohaya, Asako Inoue, Akiko	WS04-13-O/P •WS24-15-O/P \$10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P WS25-13-O/P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P WS18-04-O/P	Ito, Toshihiro	WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P WS28-14-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide Jo, Tatsunori	WS12-10-P •WS24-10-O/P WS28-02-O/P S06-03 •WS12-04-O/P WS15-01-O/P •WS24-18-P WS30-19-O/P
Inohaya, Asako Inoue, Akiko Inoue, Chisa	WS04-13-O/P •WS24-15-O/P \$10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P WS25-13-O/P WS25-14-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P WS18-04-O/P WS18-14-P	Ito, Toshihiro Ito, Yoshihiro	WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P WS28-14-P WS09-01-O/P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide Jo, Tatsunori Jo-Watanabe, Airi	WS12-10-P OWS24-10-O/P WS28-02-O/P S06-03 OWS12-04-O/P WS15-01-O/P OWS24-18-P WS30-19-O/P WS29-15-O/P
Inohaya, Asako Inoue, Akiko Inoue, Chisa Inoue, Hiromasa	WS04-13-O/P oWS24-15-O/P S10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P WS25-13-O/P WS25-14-P WS21-14-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P WS18-04-O/P WS18-14-P WS18-20-P	Ito, Toshihiro Ito, Yoshihiro Itoh, Takumi	WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P WS28-14-P WS09-01-O/P WS15-19-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide Jo, Tatsunori Jo-Watanabe, Airi June, Carl	WS12-10-P OWS24-10-O/P WS28-02-O/P S06-03 OWS12-04-O/P WS15-01-O/P OWS24-18-P WS30-19-O/P WS29-15-O/P WS11-05-O/P
Inohaya, Asako Inoue, Akiko Inoue, Chisa Inoue, Hiromasa Inoue, Jun-Ichiro	WS04-13-O/P oWS24-15-O/P S10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P WS25-13-O/P WS25-14-P WS21-14-P WS28-09-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P WS18-04-O/P WS18-14-P WS18-20-P WS26-02-O/P	Ito, Toshihiro Ito, Yoshihiro	WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P WS28-14-P WS09-01-O/P WS15-19-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide Jo, Tatsunori Jo-Watanabe, Airi	WS12-10-P OWS24-10-O/P WS28-02-O/P S06-03 OWS12-04-O/P WS15-01-O/P OWS24-18-P WS30-19-O/P WS29-15-O/P
Inohaya, Asako Inoue, Akiko Inoue, Chisa Inoue, Hiromasa	WS04-13-O/P oWS24-15-O/P S10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P WS25-13-O/P WS25-14-P WS21-14-P WS28-09-P WS03-24-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P WS18-04-O/P WS18-14-P WS18-20-P WS26-02-O/P WS26-11-P	Ito, Toshihiro Ito, Yoshihiro Itoh, Takumi Itoh, Yasushi	WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P WS28-14-P WS09-01-O/P WS15-19-P WS12-09-P WS29-21-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide Jo, Tatsunori Jo-Watanabe, Airi June, Carl	WS12-10-P OWS24-10-O/P WS28-02-O/P S06-03 OWS12-04-O/P WS15-01-O/P OWS24-18-P WS30-19-O/P WS29-15-O/P WS11-05-O/P
Inohaya, Asako Inoue, Akiko Inoue, Chisa Inoue, Hiromasa Inoue, Jun-Ichiro	WS04-13-O/P oWS24-15-O/P S10-05 WS19-04-P WS29-20-P WS31-15-P WS06-18-P WS25-13-O/P WS25-14-P WS21-14-P WS28-09-P	Ishii, Naoto	WS20-21-P WS29-16-P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS17-03-O/P WS18-04-O/P WS18-14-P WS18-20-P WS26-02-O/P	Ito, Toshihiro Ito, Yoshihiro Itoh, Takumi	WS20-16-P WS10-10-P WS02-06-O/P WS10-06-O/P WS11-19-P WS23-06-P WS23-12-P WS28-14-P WS09-01-O/P WS15-19-P	Jian, Jiun-Yu Jin, Hui Jing, Huie Jo, Norihide Jo, Tatsunori Jo-Watanabe, Airi June, Carl	WS12-10-P OWS24-10-O/P WS28-02-O/P S06-03 OWS12-04-O/P WS15-01-O/P OWS24-18-P WS30-19-O/P WS29-15-O/P WS11-05-O/P

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Kabashima, Kenji	S11-02		WS22-09-O/P		•WS14-11-O/P	Nawai, iaio	WS29-01-O/P
Rabasilina, Renji	WS07-20-P		WS22-03-0/1 ○WS22-17-P	Nasai, Naioni	WS29-13-P		WS29-01-0/F
	WS09-07-O/P	Kamita, Yukako	WS24-03-P	Kasajima, Rika	WS27-24-O/P		WS30-02-D/F
	WS10-13-P			Kasamatsu, Jun	WS03-07-O/P	Kowajiri Akibiga	WS01-06-O/F
		Kamitani, Wataru	WS28-15-P	,		Kawajiri, Akihisa	
	WS25-06-O/P oT04-02	Kamiya, Atsunori	WS17-11-O/P WS12-06-O/P		oWS20-19-O/P WS11-16-P		WS01-15-P WS07-05-O/F
Kabata Hiraki		Kamiya, Mari		Kashima, Soki			
Kabata, Hiroki	WS05-17-O/P		>WS30-13-O/P	Kashiwagi, Hirofumi			WS18-04-O/F
Kadaki Matabika	OWS05-19-P	Kamiya, Shiori	WS18-11-P WS25-08-P	Kashiwakura, Jun-Ic			WS18-14-P WS18-20-P
,	oWS07-04-O/P	Kamina Ataunasi			WS08-06-P		
Kadomatsu, Tsuyos		Kamiya, Atsunori	WS21-20-P	V V	WS17-02-P	Kanalaani Firm	WS27-07-P
Kadowaki, Norimitsi		Kamiyama, Naganor		0 /	○WS04-02-P	Kawakami, Eiryo	WS09-01-O/P
Kagechika, Hiroyuki		(WS03-13-P	• '	○WS11-02-P	Kanalaani Kanaa	WS09-04-O/F
Kageyama, Takahiro			WS07-09-P	Kasuya, Tadamichi	WS04-05-P	Kawakami, Kazuyos	
	WS18-12-P		WS12-25-P WS17-16-P	Kasuya, Yuzo	WS04-20-P WS20-01-P	Kawakami Busii	WS03-07-O/P
Vagashima Vamai	WS21-17-P WS03-13-P		WS25-02-P	Katagiri Hidaki	°E02	Kawakami, Ryoji	WS01-05-0/F WS16-04-0/F
Kagoshima, Yomei		Vamaahita Nasiaa		0 ,		Kawakami Chinami	
	WS07-09-P	Kamoshita, Nagisa	WS02-24-P >WS29-18-P	Katagiri, Mayuka	WS20-12-P	Kawakami, Shigeru	WS12-10-P
	WS12-25-P	,			○WS20-11-P	Kawakami, Yutaka	WS27-10-O/P WS02-20-O/F
	WS17-16-P	Kanai, Takanori	S02-03	Katagiri, Ryoko	WS06-09-P	Kawakatan Kumasi	
Kanasa Wald	WS25-02-P		WS05-09-P	Katagiri, Takaharu	WS19-04-P	Kawakatsu, Kumpei	
Kagoya, Yuki	S03-04		WS13-05-O/P	Katahira, Yasuhiro	WS17-13-O/P	Kawakita, Masataka	
	WS11-02-P		WS18-15-P	Katakai, Tomoya	WS11-22-P	Kawamoto, Hiroshi	
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Kai, Tamura	OWS15-18-P		WS22-24-P	,	OWS23-05-P		WS01-11-P
Kaibori, Yuito	WS19-11-P	Kanameishi, Shuto	WS24-17-O/P	Kato, Azusa	WS04-19-P		WS13-07-O/P
Kaifu, Tomonori	WS28-23-P				WS14-04-P		WS13-08-P
Kaisho, Tsuneyasu		Kanaseki, Takayuki	WS02-16-P		WS20-16-P		WS22-02-O/F
	WS06-05-O/P		WS02-18-P		○WS29-19-P		WS22-14-P
	WS27-15-P	Kanayama Maasahi	WS11-13-P	Kato, Daiki	WS27-10-O/P		WS22-16-P
	WS29-10-O/P WS29-11-O/P	Kanayama, Masashi	⊃S13-05	*	○WS13-12-P		WS22-18-P
Kaitani, Ayako	•WS04-16-O/P	Kanda, Hidenori	WS10-05-O/P	Kato, Naohiro Kato, Shingo	WS26-23-P WS27-17-P		WS26-08-O/P WS31-17-P
Nallalli, Ayako	WS09-09-O/P	Kanda, Ryuichiro	WS15-14-P		·WS29-10-O/P	Kawamura, Masami	WS02-08-O/F
	WS19-02-O/P		WS15-14-P WS11-22-P	Kato, Tamotsu	WS12-19-P	Nawamura, Masami	WS25-17-O/P
	WS21-06-O/P	Kaneda, Kenta	WS29-22-P	Kato, Yasuhiro	WS14-06-O/P	Kawamura, Takeshi	WS23-17-0/F WS23-06-P
	WS23-09-O/P	Kaneko, Mitunori	WS23-08-O/P	Nato, rasuriiro	WS15-01-O/P	Kawamura, Yosuke	WS29-20-P
Kaitani, Ryota	WS22-09-0/P	Kaneko, Shin	WS23-04-O/P	Katoh, Yuki	WS02-20-O/P	Kawano, Masaaki	WS25-05-O/F
rtanam, riyota	•WS22-14-P	Kaneko, Shuichi	WS11-15-P		•WS27-10-O/P		•WS20-03-P
Kaji, Emi	WS03-14-P	Kaneko, Shun	WS23-13-O/P	Katsukura, Yuka	WS14-16-P	rawano, ionoi	WS24-08-P
ragi, Eiiii	oWS03-16-P	Kaneko, Yuko	WS10-15-P		∘WS07-10-P		WS28-18-P
	WS03-23-P	ranoto, rato	WS15-12-P	Katsura, Yoshichika	WS06-14-P	Kawaoka, Yoshihiro	WS28-01-O/P
	WS12-15-P		WS25-10-P	Kaufmann, Johanna		*	∘E03
Kajihara, Nabeel	∘WS27-25-P		CE01-2	Kawabata, Shigetad		Kawasaki, Hiroshi	WS09-01-O/P
Kakiuchi, Miwako	S13-04	Kanekura, Takuro	WS09-12-P	Kawabe, Takeshi	WS01-06-O/P	ramadan, rindoni	WS09-04-O/F
Kaku, Yu	WS28-10-P	ranonara, ranaro	WS25-06-O/P	ranaso, ranosin	WS01-15-P		WS09-05-O/F
Kakugawa, Kiyokazi		Kanemaru, Kazumas			WS07-05-O/P	Kawasaki, Reiko	WS06-21-P
	∘WS01-03-O/P		S09-03		WS10-21-P	Kawasaki, Takumi	WS29-01-O/P
Kakuo, Shingo	WS14-05-P	Kanemitsu, Keiji	WS14-07-P		○WS18-04-O/P		OWS29-02-O/F
Kakuta, Hiroki	WS20-04-O/P	Kang, Chae Myung	WS02-25-P		WS18-14-P		WS30-02-P
Kalvin, Sahota	∘T02-01	٠, , ,	>WS30-17-P		WS18-20-P	Kawase, Wataru	WS27-17-P
Kama, Yuichi	∘WS01-12-P	Kannagi, Mari	WS28-20-P		WS27-07-P	Kawashima, Hina	WS09-10-P
Kamada, Haruhiko	WS18-18-P	Kanno, Akiko	WS26-15-P	Kawabe, Tsutomu	WS09-10-P	, , , , , , , , , , , , , , , , , , , ,	WS09-15-P
	WS31-16-P	Kanno, Emi	WS03-07-O/P		WS09-15-P		WS24-14-P
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ranaan, ranaan	WS20-05-O/P	Kanno, Takayuki	WS12-06-O/P		WS29-03-P		WS29-04-P
Kamba, Tomomi	WS11-14-O/P	Kanno, Toshio	WS05-11-O/P		WS29-04-P	Kawashima, Hiroto	WS16-11-P
Kamei, Anna	WS21-06-O/P	,	WS18-21-P	Kawagishi, Hirokazu		Kawata, Daisuke	WS12-06-O/F
Kamei, Momo	∘WS04-09-P		WS26-07-O/P	•	oWS16-01-O/P		oWS13-06-O/P
, - -	WS27-05-P		>WS29-01-O/P	Kawaguchi, Atsushi	WS10-02-O/P	.,	WS30-06-P
Kamekura, Ryuta	WS18-11-P	Kan-O, Keiko	WS21-12-P	Kawaguchi, Mariko	WS17-15-P	Kayama, Hisako	S16-03
	WS25-08-P	Kanou, Shunka	WS01-16-P	Kawaguchi, Yasushi	WS31-19-P	.,,	WS07-11-P
			WS23-13-O/P	=	∘WS08-06-P		WS17-14-P
Kametani, Yoshie	WS26-15-P	Kanto, jatsuva					
Kametani, Yoshie Kamii. Yasuhiro	WS26-15-P	Kanto, Tatsuya Karasuyama, Haiime			WS30-10-P	Kenneth, Davie	WS13-13-0/P
Kamii, Yasuhiro	○WS05-11-O/P	Kanto, Tatsuya Karasuyama, Hajime	WS07-17-O/P	Kawahara, Yukio	WS30-10-P WS25-05-O/P	Kenneth, Davie	
	○WS05-11-O/P ○WS09-06-O/P			Kawahara, Yukio Kawahata, Kimito	WS30-10-P WS25-05-O/P	Kenneth, Davie Khadka, Sundar	WS13-13-O/P WS30-03-O/P WS06-03-O/P

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Khueangchiangkhw		Kishino, Shigenobu	WS04-07-P		∘WS22-18-P	Kondo, Taisuke	∘WS11-11-O/P
3 3	∘WS12-17-P	Kiso, Maki	WS28-01-O/P	Kobayashi, Yutaro	WS10-25-P	Kondo, Toshikazu	WS08-02-P
Kihara, Miho	WS18-18-P	Kitabatake, Masahiro	WS02-06-O/P	Kobiyama, Kouji	WS27-18-P		WS17-15-P
Kii, Shuhei	WS27-20-O/P		WS10-06-O/P		WS28-15-P		WS25-16-O/P
Kikuchi, Jun	WS25-10-P		WS11-19-P	Kobori, Hajime	○WS27-01-P	Kondo, Yuma	WS17-05-O/P
Kikushige, Yoshikar	ne WS23-08-O/P		WS23-06-P	Kochi, Yuta	WS24-12-P	Kondo, Yuya	WS15-10-P
Kikuta, Junichi	○WS04-21-P		○WS23-12-P	Koda, Yuzo	○WS24-17-O/P		WS15-11-P
	WS08-20-O/P		WS28-14-P	Kodama, Naoki	WS04-07-P		WS15-20-P
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	WS20-20-O/P	Kitahara, Genta	WS02-08-O/P	Koga, Tomoaki	○WS29-24-P		WS15-09-O/P
	WS20-21-P	Kitahata, Kosuke	○WS25-07-P	Koguchi, Ayako	○WS06-21-P		WS25-09-O/P
Kikutake, Chie	WS13-06-O/P	Kitajima, Anna	WS03-10-P	Koguchi, Yoshinobu	WS02-17-P		WS28-13-P
Kilbey, Anna	WS02-07-O/P	Kitajima, Isao	WS09-20-P		○WS27-16-O/P	Konnai, Satoru	WS03-09-O/P
Kim, Kwang Soon	WS01-15-P	Kitajima, Masayuki	○WS10-17-P		WS31-11-P	Kono, Hajime	WS30-12-P
	WS18-04-O/P	Kitajima, Midori	WS09-20-P	Kohda, Chikara	WS05-10-P	Kono, Michihiro	WS23-03-O/P
Kim, Lark Kyun	WS29-08-P	Kitajima, Yasuo	WS20-03-P	Kohwi-Shigematsu,	Terumi	Kono, Michihito	○C06-01
Kim, Seul-Ki	WS02-25-P		WS28-18-P		WS31-15-P	Kosaka, Shumpei	WS31-06-O/P
Kim, Wan-Uk	∘S14-03	Kitamura, Daisuke	WS08-14-O/P	Kohyama, Masako	WS03-12-P	Kosako, Hidetaka	WS24-02-O/P
Kim, Yun-Gi	WS09-18-P		WS08-15-P		WS28-02-O/P		WS08-10-O/P
Kimitsu, Toru	WS09-06-O/P		WS13-11-O/P		WS31-05-O/P	Koseki, Haruhiko	WS02-08-O/P
Kimura, Akari	WS29-18-P		WS13-12-P		WS31-07-O/P		WS09-01-O/P
Kimura, Akihiko	WS17-15-P		WS08-07-O/P	Koida, Atsuhide	WS03-17-P		WS09-05-O/P
	WS25-16-O/P	Kitamura, Hidemitsu		Koike, Eri	WS04-13-O/P		WS11-07-O/P
Kimura, Kazumi	WS03-24-P		OWS27-20-O/P		WS29-06-O/P	Koseki, Haruhiko	WS04-17-P
	WS10-04-O/P	Kitamura, Yuya	WS10-21-P	Koike, Natsumi	○WS14-05-P	Kosuge, Masato	WS04-04-O/P
Kimura, Masahiro	WS07-21-P	Kitaoka, Koji	○WS26-03-O/P	Koike, Takuya	○WS08-20-O/P	Kotaki, Ryutaro	WS12-02-P
Kimura, Meiko	○WS09-09-O/P	Kitatani, Kazuyuki	WS21-10-P	Koinuma, Keita	WS01-15-P		WS12-05-P
	WS19-02-O/P	Kitaura, Jiro	WS04-16-O/P		WS10-21-P	Kotani, Ai	WS13-07-O/P
Kimura, Motoko	WS01-13-P		WS09-09-O/P	Koiwai, Kazuki	WS04-19-P	Kotani, Hitoshi	WS27-21-P
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Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-06-O/P WS01-15-P WS07-05-O/P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna	WS22-05-O/P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P •WS06-15-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna	WS22-05-O/P WS30-11-P WS15-12-P WS15-19-P WS15-19-P WS04-08-O/P WS15-07-O/P WS15-18-P WS31-10-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS25-09-O/P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P •WS06-15-P WS03-09-O/P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro	WS22-05-O/P WS30-11-P WS15-12-P WS15-19-P WS15-19-P WS04-08-O/P WS15-07-O/P WS15-18-P WS31-10-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P •WS06-15-P WS03-09-O/P WS27-07-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro	WS22-05-O/P •WS24-16-P WS30-11-P WS15-12-P •WS15-19-P WS15-19-P WS04-08-O/P •WS15-06-O/P WS15-07-O/P WS15-18-P WS31-10-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Kazuo	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P •WS06-15-P WS03-09-O/P WS27-07-P WS21-12-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS26-11-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro	WS22-05-O/P WS24-16-P WS30-11-P WS15-12-P WS15-19-P WS15-19-P WS04-08-O/P WS15-07-O/P WS15-18-P WS31-10-P 'ayoi WS06-09-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P WS24-14-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Kazuo	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P •WS06-15-P WS03-09-O/P WS27-07-P WS21-12-P WS29-17-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS27-07-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Y	WS22-05-O/P WS24-16-P WS30-11-P WS15-12-P WS15-19-P WS15-19-P WS04-08-O/P WS15-07-O/P WS15-18-P WS31-10-P 'ayoi WS06-09-P WS27-22-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P WS24-14-P WS29-03-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Kazuo Okamoto, Masaaki Okamoto, Nanako	WS30-04-P WS03-09-O/P •WS19-23-P •WS11-18-P WS27-20-O/P •S14-02 WS07-19-P WS09-05-O/P WS10-17-P •WS06-15-P WS03-09-O/P WS27-07-P WS21-12-P WS29-17-P •WS06-13-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko Okuyama, Yuko	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS27-07-P WS03-26-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Y	WS22-05-O/P WS24-16-P WS30-11-P WS15-12-P WS15-19-P WS15-19-P WS04-08-O/P WS15-07-O/P WS15-18-P WS31-10-P 'ayoi WS06-09-P WS27-22-P WS02-14-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya Ohara, Moeko	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P WS29-03-P WS29-04-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Kazuo Okamoto, Masaaki Okamoto, Nanako	WS30-04-P WS03-09-O/P WS19-23-P WS11-18-P WS27-20-O/P S14-02 WS07-19-P WS09-05-O/P WS10-17-P WS06-15-P WS03-09-O/P WS27-07-P WS21-12-P WS29-17-P WS06-13-P WS22-05-O/P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko Okuzaki, Daisuke Omata, Yasunori Omatsu, Yoshiki	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS26-11-P S05-26-P WS15-08-O/P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Y	WS22-05-O/P WS24-16-P WS30-11-P WS15-12-P WS15-19-P WS15-08-O/P WS15-08-O/P WS15-08-O/P WS15-18-P WS31-10-P 'ayoi WS06-09-P WS27-22-P WS02-14-P WS04-02-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya Ohara, Moeko	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P WS29-03-P WS29-04-P WS06-01-O/P WS03-09-O/P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Kazuo Okamoto, Masaaki Okamoto, Nanako	WS30-04-P WS03-09-O/P WS19-23-P WS11-18-P WS27-20-O/P S14-02 WS07-19-P WS09-05-O/P WS10-17-P WS06-15-P WS03-09-O/P WS27-07-P WS21-12-P WS29-17-P WS06-13-P WS22-05-O/P WS22-21-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko Okuzaki, Daisuke Omata, Yasunori Omatsu, Yoshiki Omori-Miyake, Miyui	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS26-11-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Y Ouchi, Ryo Ouda, Ryota	WS22-05-O/P WS24-16-P WS30-11-P WS15-12-P WS15-19-P WS15-08-O/P WS15-08-O/P WS15-08-O/P WS15-18-P WS31-10-P 'ayoi WS06-09-P WS27-22-P WS02-14-P WS04-02-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya Ohara, Moeko Ohara, Osamu Ohara, Toshiaki	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P WS24-14-P WS29-03-P WS09-01-O/P WS09-01-O/P WS09-01-O/P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Kazuo Okamoto, Masaaki Okamoto, Nanako Okamoto, Ryuichi	WS30-04-P WS03-09-O/P WS19-23-P WS11-18-P WS27-20-O/P S14-02 WS07-19-P WS09-05-O/P WS10-17-P WS06-15-P WS03-09-O/P WS27-07-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS28-13-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko Okuzaki, Daisuke Omata, Yasunori Omatsu, Yoshiki Omori-Miyake, Miyui	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS26-11-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Y Ouchi, Ryo Ouda, Ryota	W\$22-05-O/P W\$30-11-P W\$30-11-P W\$15-12-P W\$15-19-P W\$15-19-P W\$15-06-O/P W\$15-07-O/P W\$15-18-P W\$31-10-P 'ayoi W\$06-09-P W\$27-22-P W\$02-14-P W\$04-02-P Oriko W\$28-14-P
Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya Ohara, Moeko Ohara, Osamu Ohara, Toshiaki Ohashi, Kazuhiko	WS02-01-P •WS23-01-O/P WS23-03-O/P •WS28-12-P WS23-15-P \$12-01 WS27-04-P WS27-14-O/P •WS07-08-P WS15-09-O/P WS09-10-P •WS09-15-P WS29-03-P WS29-04-P WS06-01-O/P WS03-09-O/P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Masaaki Okamoto, Nanako Okamoto, Ryuichi Okamoto, Toru	WS30-04-P WS03-09-O/P WS19-23-P WS11-18-P WS27-20-O/P S14-02 WS07-19-P WS09-05-O/P WS10-17-P WS06-15-P WS03-09-O/P WS27-07-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS28-13-P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko Okuzaki, Daisuke Omata, Yasunori Omatsu, Yoshiki Omori-Miyake, Miyui	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-06-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS26-11-P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Y Ouchi, Ryo Ouda, Ryota	W\$22-05-O/P W\$30-11-P W\$30-11-P W\$15-12-P W\$15-19-P W\$15-19-P W\$15-06-O/P W\$15-07-O/P W\$15-10-P (ayoi W\$06-09-P W\$27-22-P W\$02-14-P W\$04-02-P oriko W\$02-06-O/P
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Ogiwara, Haru Oguchi, Akiko Ogura, Hideki Ogura, Hiroshi Ogura, Toshihiko Ohara, Daiya Ohara, Moeko Ohara, Moeko Ohara, Toshiaki Ohashi, Kazuhiko Ohashi, Mihoko Ohashi, Wakana Oh-Hora, Masatsug Ohira, Shuya Ohira, Yuta Ohishi, Kanae	WS02-01-P WS23-01-O/P WS23-03-O/P WS28-12-P WS23-15-P S12-01 WS27-04-P WS27-14-O/P WS07-08-P WS15-09-O/P WS09-10-P WS09-15-P WS24-14-P WS29-03-P WS09-10-P WS18-11-P WS25-08-P WS09-10-O/P WS18-11-P WS21-11-P WS27-11-P WS27-11-P WS27-11-P WS27-11-P	Oishi, Eiji Okada, Hiraku Okada, Masahiro Okada, Naoki Okada, Takaharu Okada, Takayuki Okada, Wataru Okagawa, Tomohiro Okajima, Akira Okamoto, Isamu Okamoto, Masaaki Okamoto, Nanako Okamoto, Toru Okamoto, Toru Okamura, Tomohisa Okamura, Tomotaka Okano, Hideyuki Okano, Tokuju Okano, Yuko	WS30-04-P WS03-09-O/P WS19-23-P WS11-18-P WS27-20-O/P S14-02 WS07-19-P WS09-05-O/P WS10-17-P WS06-15-P WS03-09-O/P WS21-12-P WS29-17-P WS29-17-P WS29-17-P WS29-17-P WS19-19-O/P WS28-13-P WS19-19-O/P WS28-13-P WS19-19-O/P WS28-04-O/P WS28-04-O/P WS28-04-O/P WS28-04-O/P WS28-04-O/P WS03-01-O/P WS14-02-P WS05-13-O/P WS15-13-O/P WS15-13-O/P WS14-02-P WS05-13-O/P WS25-13-O/P	Okura, Hiroko Okuwa, Takako Okuyama, Kazuki Okuyama, Ryuhei Okuyama, Yuko Okuyama, Yuko Okuzaki, Daisuke Omata, Yasunori Omatsu, Yoshiki Omori-Miyake, Miyu Omura, Seiichi Onai, Nobuyuki O'Neill, Luke Ong, Guang Han Onishi, Shintaro Ono, Chisato Ono, Sachiko Ono, Takehito	WS02-08-O/P WS12-21-P S06-05 WS01-02-O/P WS23-02-O/P WS02-20-O/P WS01-15-P WS07-05-O/P WS10-21-P WS18-14-P WS18-20-P WS26-11-P WS07-05-O/P WS15-08-O/P S02-05 WS22-08-O/P ki WS09-03-O/P WS01-14-P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P WS08-03-O/P WS18-14-P WS08-03-O/P WS08-03-O/P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P WS18-14-P WS08-03-O/P	Otani, Kento Otobe, Yuta Otomo, Kotaro Otsubo, Ryota Otsuka, Haruna Otsuka, Kunihiro Otsuka-Yamasaki, Ya Ouchi, Ryo Ouda, Ryota Ouji-Sageshima, No	WS22-05-O/P WS24-16-P WS30-11-P WS15-12-P WS15-19-P WS15-19-P WS15-06-O/P WS15-07-O/P WS15-18-P WS31-10-P dayoi WS06-09-P WS27-22-P WS02-14-P WS04-02-P Oriko WS02-06-O/P WS11-19-P WS23-12-P WS03-12-P WS03-12-P WS02-15-P WS04-02-P Oriko WS08-09-P WS08-14-P Oriko WS28-14-P Oriko WS08-09-P WS10-06-O/P WS11-19-P WS23-12-P WS09-19-P WS04-11-O/P WS20-07-P

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	WS17-16-P		WS22-11-P	Salfeld, Jocheng	C11-01		WS28-08-O/P
	WS25-02-P	Sachi, Nozomi	WS07-09-P	Sanjo, Hideki	WS17-04-P	Satou, Yutaka	WS22-02-O/P
	WS03-13-P		∘WS17-16-P	Sano, Shuhei	○WS06-02-O/P	Satoyama, Toshiya	WS14-12-P
	WS12-25-P		WS25-02-P	Sansom, Owen	WS02-07-O/P	Saukurai, Kohta	WS19-20-O/P
Ozawa, Madoka	WS11-22-P		WS03-13-P	Saonanon, Preamjit	WS06-11-P	Sawa, Naoki	○C05-02
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	WS26-21-P	Saeki, Kazuko	WS29-15-O/P	Sasada, Tetsuro	WS27-24-O/P		WS07-14-P
	VV020 211	Odoki, rkazako	WS29-24-P	Sasaki, Atsuhi	WS12-07-O/P		WS20-09-O/P
		Sagara, Hiroshi	WS04-06-O/P	Sasaki, Daisuke	WS12-24-P		WS22-22-P
	2	Saijo, Shinobu	WS12-16-O/P		•WS29-07-P		WS28-06-O/P
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Pologo Toponot	W004 17 D	Saika, Azusa	○WS09-07-O/P		WS29-08-P	,	WS29-14-O/P
Palaga, Tanapat	WS04-17-P		WS13-13-O/P	Ozzalii Hamini	WS29-24-P	Sawada, Norie	WS06-09-P
	WS06-08-O/P	0 11 111 11	WS30-03-O/P	Sasaki, Harumi	WS08-21-O/P	Sawanobori, Yasush	
	WS06-11-P	Saito, Hiroaki	WS17-03-O/P	Sasaki, Hirokazu	WS30-13-O/P		oWS20-18-P
	○WS29-05-O/P	,	∘WS03-22-P	Sasaki, Izumi	WS29-10-O/P	Sawasaki, Tatsuya	WS11-12-P
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	WS11-25-P	Saito, Riku	∘WS14-17-P	Sasaki, So-Ichiro	WS05-04-P		WS27-16-O/P
Park, Ah-Mee	WS06-03-O/P	Saito, Risa	○WS17-08-O/P	Sato, Ayaka	WS26-02-O/P	Seimiya, Hiroyuki	WS27-03-P
Park, Eun Jeong	WS19-09-P	Saito, Shinichi	WS14-08-P		○WS26-11-P	Seino, Ken-Ichiro	WS27-25-P
Park, Su Min	WS02-25-P	Saito, Shuntaro	WS25-10-P		WS26-12-P	Sekai, Miho	∘WS02-23-P
Park, Young-Soo	WS05-22-P	Saito, Suguru	WS07-01-O/P	Sato, Fumitaka	OWS06-03-O/P	Seki, Akihiro	WS11-15-P
Parrish, Heather L.	WS26-18-P		WS25-03-O/P		WS31-14-P	Seki, Noriyasu	WS25-10-P
Pattarakankul, Thitip	orn	Saito, Takashi	WS18-01-O/P	Sato, Hayato	WS03-07-O/P	Seki, Takao	∘WS24-13-P
, ,	WS04-17-P		○WS26-13-P	Sato, Katsuaki	WS27-08-P	Seki, Toshiro	WS26-15-P
	WS29-05-O/P		WS28-09-P		○WS08-04-P		∘WS17-01-O/P
Peining, Brian D	WS02-17-P	Saito, Takumi	WS29-22-P	Sato, Kayoko	WS13-17-O/P		∘WS16-05-O/P
Phankeaw, Pimchan			○WS04-01-O/P	Sato, Ko	WS03-07-O/P	Sekul, Renate	WS12-03-P
	WS06-08-O/P	ound, radayana	WS20-13-P	Sato, Kosuke	WS01-06-O/P	Seo, Eun-Bi	WS02-25-P
Piening, Brian	WS31-11-P	Saito, Yoriko	WS11-08-P	oato, nosano	WS01-15-P	Seo, Goo-Young	WS19-13-O/P
Pingen, Marieke	WS17-07-P	Sailo, Ioliko	WS22-04-O/P		WS07-05-O/P	Serizawa, Kenichi	WS06-14-P
•		Caita Wulahi					
Potluri, Shobha	WS02-02-O/P	,	○WS08-18-P		WS10-21-P	Serwold, Thomas	WS26-18-P
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	WS10-24-P	Saitoh, Tatsuya	WS30-14-P		WS15-06-O/P	Sezaki, Maiko	WS22-03-O/P
Pruksakorn, Vannak		Sakabe, Takehiro	WS11-19-P		WS15-07-O/P		OWS15-02-O/P
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	WS06-11-P	Sakagami, Takuro	WS11-14-O/P		○WS31-10-P	Sher, Alan	WS18-04-O/P
	WS06-10-P	Sakaguchi, Shimon	WS01-05-O/P	Sato, Masashi	WS04-18-P	Shevach, Ethan	WS04-05-P
Purwanto, Ignatius	WS11-25-P		WS16-02-O/P	Sato, Ryo	WS22-03-O/P	Shi, Zhengzheng	WS05-18-O/P
			WS16-04-O/P	Sato, Ryota	WS14-09-O/P	Shibata, Kensuke	OWS03-06-O/P
			WS16-13-P		WS15-11-P		WS05-01-O/P
F	3		WS16-18-P		○WS29-11-O/P	Shibata, Takuma	WS29-11-O/P
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Rajamanickam, Venl	katesh	Sakaguchi, Taiki	WS07-11-P	Sato, Taiki	WS18-11-P	Shibui, Nagito	WS26-02-O/P
-	WS27-16-O/P	Sakai, Ryota	○WS16-14-P		○WS25-08-P	-	WS26-12-P
Raveney, Ben	○WS10-03-O/P	Sakai, Seiichiro	WS14-14-O/P	Sato, Taku	○WS04-03-O/P	Shibuya, Akira	S09-03
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Reddy, Jayagopala	WS16-08-O/P	Sakai, Yoshio	WS11-15-P	Sato, Tomohito	WS06-19-P		WS05-14-O/P
Redmond, William	WS27-16-O/P	Sakai-Tagawa, Yuko		Sato, Tomoo	WS28-07-O/P		WS10-02-O/P
neumonu, william	WS31-11-P	Sakamori, Ryotaro	WS23-13-O/P		WS06-04-O/P		WS10-02-0/P WS21-01-0/P
Dadmand William I				Sato, Wakiro			
Redmond, William L		Sakamoto, Akihiko	WS08-17-P		WS06-06-O/P		WS25-15-O/P
Restifo, Nicholas P.	WS02-02-O/P		OWS28-16-P	0 1 1/1 1:	WS10-03-O/P	01.11	WS05-03-O/P
Ridgway, Rachel	WS02-07-O/P		○WS17-13-O/P	Sato, Katsuaki	WS07-02-P	Shibuya, Kazuko	S09-03
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	○S13-03	Sakamoto, Nao	WS27-07-P		WS05-12-P		WS16-10-P
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Rosales, Wesley	WS27-16-O/P	Sakata, Daiji	WS09-12-P	Satoh, Takashi	○T06-01	Shichino, Shigeyuki	WS02-01-P
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			WS02-21-P		○WS05-18-O/P		WS10-06-O/P
		Sakatoku, Kazuki	WS27-06-P		WS05-20-P		WS14-15-O/P
C	3		○WS03-08-O/P	Satooka, Hiroki	WS31-01-O/P		WS20-02-O/P
		Sakuishi, Kaori	WS06-21-P		○WS31-18-P	Shichita, Takashi	OT08
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	WS20-06-P	Shirai, Kunihiro	WS28-12-P	• •	WS20-09-O/P	Tajima, Ayumi	WS09-10-P
	WS24-16-P		○WS13-04-O/P		○WS22-22-P	• • •	WS09-15-P
Shida, Hisatoshi	WS28-16-P	Shirai, Takanobu	WS02-23-P		WS07-14-P		WS24-14-P
	○WS11-10-O/P		○WS15-19-P	Sumiyoshi, Mami	○WS18-13-P		WS29-03-P
Shigenaga, Ayako	WS04-15-P	Shirasaki, Yoshitaka		Sun, Xiao	WS13-13-O/P		WS29-04-P
Shiina, Takashi	WS31-08-O/P	, , , , , , , , , , , , , , , , , , , ,	WS25-12-O/P		○WS30-03-O/P	Tajima, Masaki	WS18-18-P
Shiku, Hiroshi	WS11-26-P		WS30-15-P		∘WS02-13-P	•, •, •••	WS24-03-P
Shima, Yoshio	WS04-13-O/P	Shirouzu, Mikako	WS28-09-P	J	WS02-15-P		WS31-16-P
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Shimamura, Hinano			○S04-01	Supriyadi, Eddy	WS11-25-P	Takada, Kensuke	•WS18-05-O/P
Shimaoka, Motomu	WS05-20-P	Shizu, Manami	WS04-10-P	Sutaryo, Sutaryo	WS11-25-P	Takada, Minoru	WS10-05-0/P
Onimaona, Motorna	WS19-09-P	Ornza, Marianni	WS04-18-P	Suto, Akira	WS05-15-P	Takada, Yoshiaki	WS05-09-P
Shimasaki, Nodoka		Shoda, Hirofumi	WS15-08-O/P	outo, Akira	WS18-12-P	iakada, iosiliaki	WS03-03-1 WS22-24-P
Shiinasaki, Nouoka						Takanau Ciinhi	•WS03-05-O/P
	WS09-15-P	Shultz, Leonard	WS22-04-O/P	Cuta Haiima	WS21-17-P	Takaesu, Giichi	
	WS24-14-P	Shunyi, Li	WS16-07-O/P	Suto, Hajime	WS09-06-O/P	T	WS12-14-P
	WS29-03-P	Simons, Noah	WS27-16-O/P		○WS06-09-P	Takagi, Koichi	WS21-14-P
	WS29-04-P	,	⊙S11-01	Suyama, Mikita	WS13-06-O/P	Takagi, Rie	WS25-05-O/P
Shimba, Akihiro	WS21-02-O/P	Smothers, James	WS27-16-O/P	Suzuki, Akari	WS23-01-O/P	Takagi, Sayaka	WS09-10-P
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Tsumiyama, Ken	WS15-03-O/P	Ueno, Takamasa	WS28-03-O/P		WS02-04-O/P	Yamada, Daiki	WS19-19-O/P
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Tsumoto, Kouhei	WS28-15-P	Ueno, Tastuya	WS01-13-P	Washizaki, Ayaka	WS10-05-O/P	Yamada, Naruomi	WS14-16-P
Tsunematsu, Takaak		Ueno, Tatsuya	WS02-04-O/P	, ,	○WS28-08-O/P		○WS31-12-P
	≎WS04-08-O/P	Ueta, Hisashi	WS20-18-P		WS28-19-P	Yamada, Shuichi	WS05-22-P
	WS15-07-O/P	Ujie, Michiko	WS28-01-O/P	Watanabe, Aruma	WS17-13-O/P	Yamada, Soga	WS26-15-P
	WS15-18-P	Ukita, Masayo	WS11-23-O/P	Watanabe, Atsushi	WS25-08-P	Yamada, Takahiro	WS19-14-O/P
	WS31-10-P	Umekage, So	WS06-09-P		WS18-20-P	ramaua, rakaliliu	WS19-14-O/P WS28-06-O/P
Taunaaka Vauauka		•		Watanabe, Hideaki		Vamada Tashiki	
Tsuneoka, Yousuke	WS19-04-P	Umemoto, Eiji	WS07-03-O/P		·WS24-09-O/P		oWS21-01-O/P
Tsuneto, Motokazu			WS20-04-O/P	Watanabe, Hitomi	WS07-08-P	Yamada, Zento	WS07-22-P
Tsunetsugu-Yokota,		Umemura, Masayuk			WS25-09-O/P	0 ,	○WS06-01-O/P
	WS28-19-P		○WS12-14-P		○WS28-13-P	Yamagata, Kaoru	WS15-14-P
Tsuneyama, Koichi	WS14-11-O/P	Umezawa, Natsuka			WS15-09-O/P	Yamagata, Kyouhei	WS28-16-P
	WS29-13-P	Umezu, Takumi	WS13-11-O/P	Watanabe, Keisuke	○WS11-05-O/P	Yamagishi, Mai	WS05-19-P
Tsunoda, Ikuo	WS06-03-O/P	Uno, Kazuko	WS23-08-O/P	Watanabe, Masashi	WS02-15-P		WS25-12-O/P
	WS31-14-P		○WS25-11-P		WS04-02-P	Yamaguchi, Masaya	WS03-04-O/P
Tsunoda, Junya	WS05-09-P	Urakami, Hitoshi	○WS09-11-P	Watanabe, Miyuki	○WS30-16-O/P	Yamaguchi, Munech	ik
Tsunoda, Mikiya	○WS02-01-P		WS17-11-O/P	Watanabe, Sho	WS27-26-P		WS02-08-O/P
-	WS18-24-P		WS21-20-P	Watanabe, Takashi	WS06-01-O/P	Yamaguchi, Tomoka:	zu
Tsunoda, Tatsuhiko	WS20-05-O/P	Uraki, Ryuta	WS16-13-P	Watanabe, Takeshi	WS22-18-P		WS27-23-O/P
	∘WS13-09-P	-	∘WS28-01-O/P	Watanabe, Toshiyuk		Yamaguchi, Tomoyul	
Tsurumaki, Nobuhide			○WS28-04-O/P	Watanabe, Yuji	WS04-06-O/P	-	∘WS01-08-P
Tsuruoka, Nobuhide	WS26-12-P	Uryu, Mizuki Ushio, Aya	WS13-17-O/P	Watarai, Masahisa	WS03-06-O/P	Yamaguchi, Yoko	WS03-15-P
Teuteui Vute			WS31-10-P	Watnabe, Mahiro	○WS31-20-P	Yamaguchi, Yuta	○WS14-06-O/P
Tsutsui, Yuta		=				-	WC00 10 D
	WS20-12-F ○WS20-06-P WS24-16-P	Usui, Toshiaki Uta, Daisuke	WS29-18-P WS09-20-P	Wei, Yuxi Widjajanto, Pudjo H	∘WS16-03-P	Yamaji, Ken	WS22-12-P WS29-22-P

Yamaji, Taiki	WS06-09-P		WS30-03-O/P	Yokomizo, Takehiko	WS29-15-O/P		WS20-11-P
Yamakawa, Natsi		Yamayoshi, Seiya	WS28-01-O/P		WS29-24-P	C	WS28-11-P
	○WS03-20-P	Yamazaki, Hidetoshi		Yokosuka, Tadashi	WS11-21-P		WS29-06-O/P
Yamakura, Fumiy		Vernezeki Dike	WS22-23-P		WS26-06-O/P		WS29-08-P
Yamamae, Yui	WS05-04-P	Yamazaki, Rika Yamazaki, Sayuri	WS30-04-P WS14-01-P	Yokota, Masaya	WS26-10-P WS21-17-P		WS31-12-P WS11-03-P
Vamamoto Kazu	hiko WS23-01-O/P	ramazaki, Sayum	WS16-13-P	Yokoyama, Kazumas		Yoshimura, Teizo	WS02-22-P
ramamoto, rtaza	WS23-03-O/P	Yamazaki, Soh	oWS19-04-P	rokoyama, kazamac	WS06-02-O/P	Yoshimura, Tomoko	WS09-06-O/P
	WS24-12-P	ramazani, oon	WS24-13-P	Yokoyama, Kotoko	WS31-11-P	Yoshinaga, Masanori	
Yamamoto, Kazu		Yamazaki, Tatsuya	WS08-22-O/P	Yokoyama, Shigeyuk		-	WS22-01-O/P
Yamamoto, Lisa	WS04-16-O/P	, ,	WS30-18-P	Yoneyama, Mitsutosl		Yoshino, Miya	WS06-15-P
Yamamoto, Masa	ahiro WS03-03-O/P		○WS13-14-O/P	•	WS30-11-P		WS27-15-P
	WS03-24-P	Yamazaki, Yasuhiro	WS02-02-O/P	Yonezawa, Atsushi	WS31-11-P	Yoshino, Naoto	WS07-21-P
	WS06-13-P	Yanagi, Masahiro	○WS18-11-P	Yonezawa, Fumiya	WS21-10-P	Yoshino, Yusuke	WS30-12-P
	WS25-06-O/P		WS25-08-P	Yorozu, Keigo	WS06-14-P	Yoshio, Sachiyo	WS23-13-O/P
Yamamoto, Masa	ayuki WS04-07-P	Yanagihara, Katsuno	ori	Yoshida, Haruka	WS27-17-P	Yoshioka, Yasuo	WS10-05-O/P
Yamamoto, Mizul			WS12-24-P	, ,	oOT05	Yoshisato, Masayori	WS12-14-P
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Yamamoto, Norio			WS27-16-O/P		WS21-01-O/P		WS18-03-O/P
Yamamoto, Raizo		Yang, Shuhan	OWS04-11-O/P	Yoshida, Hiroki	WS03-24-P	· · · · · · · · · · · · · · · · · · ·	WS23-16-P
Yamamoto, Risa	○WS21-06-O/P	V 7 ll	WS20-07-P		WS04-01-O/P	Yoshiyama, Takashi	WS26-22-P
Yamamoto, Ryoh		Yang, Zhuohao	WS25-12-O/P		WS20-13-P	Yoshizaki, Kazuyuki	
Yamamoto, Shini		Yang, Ziying	WS01-06-O/P		WS25-06-O/P	Yuda, Junichiro	WS25-11-P WS27-26-P
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	WS12-08-P		WS18-14-P		•WS23-14-P	rui, Naisuyuki	WS12-10-P
	WS23-13-O/P		•WS18-20-P	, 0	○WS03-07-O/P		WS10-04-O/P
	WS28-08-O/P		WS27-07-P	Yoshida, Nanami	WS09-10-P	Yumura, Wako	WS31-09-P
	WS28-19-P	Yano, Hiromu	WS11-14-O/P	roomaa, ramam	WS09-15-P	ramara, rrano	
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Yamamura, Takas	shi WS06-04-O/P		WS25-13-O/P		WS29-03-P	Z	
	WS06-06-O/P		WS25-14-P		○WS29-04-P	_	
	WS10-03-O/P	Yari, Shinya	WS08-20-O/P	Yoshida, Shigeto	WC00 10 D	Zomo Novuri	WS02-15-P
		ran, ormiya	VV300-20-0/F	iosilida, Siligeto	WS28-16-P	Zama, Noyuri	VVOUZ-13-1
	WS10-24-P	Yashiro, Takuya	WS04-07-P	-	∘WS21-09-O/P	Zenda, Rie	WS14-07-P
		Yashiro, Takuya		-			
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Yamane, Keita	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P	Yashiro, Takuya Yasuda, Atsushi	WS04-07-P •WS21-19-P WS20-11-P WS26-15-P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P	Zenda, Rie Zhang, Baihao	WS14-07-P S12-01 WS27-14-O/P WS10-19-P
Yamane, Keita Yamane, Takashi	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko	WS04-07-P •WS21-19-P WS20-11-P WS26-15-P •WS29-20-P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P	Zenda, Rie Zhang, Baihao	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko	WS04-07-P OWS21-19-P WS20-11-P WS26-15-P OWS29-20-P A01-02	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P	Zenda, Rie Zhang, Baihao Zhang, Chenyang	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P
Yamane, Keita Yamane, Takashi	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko	WS04-07-P OWS21-19-P WS20-11-P WS26-15-P OWS29-20-P A01-02 OWS03-17-P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F.	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P ishi WS02-26-P WS31-04-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P WS17-05-O/P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo Yamano, Yoshihis	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P sa WS28-07-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi Yoshihara, Risa	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P WS25-12-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting Zhao, Weiyang	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P WS18-23-P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo	WS10-24-P WS16-08-O/P WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P sa WS28-07-O/P •S01-02	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun Yasuda, Shinsuke	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P WS17-05-O/P WS30-13-O/P WS12-06-O/P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P WS25-12-O/P WS13-13-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting Zhao, Weiyang Zheng, Jiawen	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P WS18-23-P WS01-09-P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo Yamano, Yoshihis	WS10-24-P WS16-08-O/P ko WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P sa WS28-07-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun	WS04-07-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P WS17-05-O/P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi Yoshihara, Risa Yoshii, Ken	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P WS25-12-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting Zhao, Weiyang Zheng, Jiawen	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P WS18-23-P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo Yamano, Yoshihis	WS10-24-P WS16-08-O/P WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P sa WS28-07-O/P •S01-02 S11-04	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun Yasuda, Shinsuke	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P WS17-05-O/P WS30-13-O/P WS12-06-O/P WS20-03-P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi Yoshihara, Risa Yoshii, Ken	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P WS25-12-O/P WS13-13-O/P ○WS12-16-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting Zhao, Weiyang Zheng, Jiawen Zhu, Baohui	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P WS18-23-P WS01-09-P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo Yamano, Yoshihis	WS10-24-P WS16-08-O/P WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P sa WS28-07-O/P •S01-02 S11-04 WS03-06-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun Yasuda, Shinsuke	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P WS17-05-O/P WS30-13-O/P WS12-06-O/P WS20-03-P WS28-18-P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi Yoshihara, Risa Yoshii, Ken Yoshikawa, Fabio	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P WS25-12-O/P WS13-13-O/P ○WS12-16-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting Zhao, Weiyang Zheng, Jiawen Zhu, Baohui	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P WS18-23-P WS01-09-P WS02-14-P WS01-15-P
Yamane, Keita Yamane, Takashi Yamane, Toshiyu Yamano, Tomoyo Yamano, Yoshihis	WS10-24-P WS16-08-O/P WS30-12-P WS28-18-P WS15-03-O/P ki WS22-10-O/P shi WS02-26-P WS31-04-O/P •WS10-07-O/P sa WS28-07-O/P •S01-02 S11-04 WS03-06-O/P WS05-01-O/P	Yashiro, Takuya Yasuda, Atsushi Yasuda, Eriko Yasuda, Keiko Yasuda, Koubun Yasuda, Shinsuke Yasuda, Tomoharu	WS04-07-P WS21-19-P WS20-11-P WS26-15-P WS29-20-P A01-02 WS03-17-P WS07-15-O/P WS17-05-O/P WS30-13-O/P WS12-06-O/P WS20-03-P WS28-18-P WS05-13-P	Yoshida, Takanobu Yoshida, Yasuhiro Yoshida, Yutaka Yoshido, Kana Yoshie, Osamu Yoshihara, Asumi Yoshihara, Risa Yoshii, Ken Yoshikawa, Fabio	○WS21-09-O/P WS04-12-P WS12-21-P ○WS21-21-P WS25-01-P WS25-07-P WS04-20-P ○WS20-01-P ○WS15-08-O/P WS25-12-O/P WS13-13-O/P WS30-03-O/P ○WS12-16-O/P WS06-02-O/P	Zenda, Rie Zhang, Baihao Zhang, Chenyang Zhang, Lillian F. Zhang, Yu Zhao, Weiting Zhao, Weiyang Zheng, Jiawen Zhu, Baohui Zhu, Jinfang	WS14-07-P S12-01 WS27-14-O/P WS10-19-P WS10-24-P WS24-08-P WS12-12-O/P S06-03 WS20-10-O/P WS18-23-P WS01-09-P WS02-14-P WS01-15-P WS18-04-O/P
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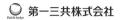


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