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2024 日本免疫学会総会・学術集会記録

第53巻 出島メッセ長崎 プログラム

2024

日本免疫学会総会・学術集会記録

The 53rd Annual Meeting of The Japanese Society for Immunology

第 53 巻

Program

DEJIMA MESSE NAGASAKI

December 3 (Tue.)
4 (Wed.)
5 (Thu.)

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 53rd Annual Meeting of The Japanese Society for Immunology

December 3-5, 2024

DEJIMA MESSE NAGASAKI

※ The 61st Annual Meeting of the Japanese Society for Mucosal Immunology (JSMI) will be held at the same venue on Thursday, December 5-6.
For the program of JSMI, please visit the website: <https://www2.aeplan.co.jp/jsmi2024/>

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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/>)

Program of The Japanese Society for Immunology (JSI)

Vol. 53

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The 53rd Annual Meeting of the Japanese Society for Immunology

Program at a glance

December 3 (Tue.), 2024

Building / Room		Program Room Number	8	30	9	30	10	30	11	30	12	30
2 F	Convention Hall 1/4	Room A			OT01 J	S01 Neuro-immune crosstalks AMED-CREST/PRIME "MultiSensing", "Microbiome", and "Stress" Sponsored Session E					C01 Takeda Pharmaceutical Co., Ltd. J	
1 F	101A	Room B			OT02 J	S02 Immunometabolism US-Japan Cooperative Medical Sciences Program Co-organized Session Oxford University Press E					C02 ASAHI KASEI PHARMA CORP. J	
	101B	Room C			OT03 J	S03 Epigenetic regulation of antitumor immune response US-Japan Cooperative Medical Sciences Program Co-organized Session E					T01 Cytek Japan Corp. J	
	101C	Room D			OT04 J	S04 The front line of innate lymphoid cells research SFI-JSI Joint Session E					T02 TOMY DIGITAL BIOLOGY CO., LTD. J	
	102	Room E			OT05 J	S05 Recent advances in allergic research JSI-JSA Joint Session E					T03 Milttenyi Biotec K.K. E	
	103	Room F	8:30 9:00 11:30								C03 Moderna Japan E	
	107	Room G									C04 Sanofi K.K. / Regeneron Pharmaceuticals Inc. J	
	108	Room H	9:00 11:40 12:40									
2 F	Convention Hall 3/4	Equipment Exhibition	8:30		Equipment Exhibition							
		Poster		Installation	Poster Viewing							

OT | Overview Talk **S** | Symposium **C** | Clinical Seminar
T | Technical Seminar **WS** | Workshop **A** | Afternoon Seminar
E in English **J** in Japanese **E** | Evening Seminar

13		30		14		30		15		30		16		30		17		30		18		30		19		30		20		30		21	
A01 J Nippon Becton Dickinson Company, Ltd.				WS01 E Mucosal-Skin Immunity 01				WS09 E Mucosal-Skin Immunity 02																									
12:50				13:50				WS02 E Cytotoxic T cells				WS10 E Tissue inflammation controlled by T cells								E01 J Janssen Pharmaceutical K.K.													
				WS03 E In vivo model and new cancer immunotherapy				WS11 E Tumor microenvironment and biomarkers				18:30 19:30																					
				WS04 E Innate Immunity 1: Innate inflammation and disease				WS12 E Innatelmmunity 2: Innate immune cell																									
				WS05 E Allergy				WS13 E Hematopoiesis and Immune Environment																									
				WS06 E Arthritis and Fibrosis																													
				WS07 E Macrophage 1				WS14 E Macrophage 2																									
				WS08 E Infection immunity 01				WS15 E Infection immunity 02				18:20																					
14:00 15:15 15:25 16:40																																	
Equipment Exhibition																																	
16:50 17:35																		18:40															
Poster Viewing														E Poster Discussion (Odd No.)		E Poster Discussion (Even No.)		<div>Removal</div>															

The 53rd Annual Meeting of the Japanese Society for Immunology

Program at a glance

December 4 (Wed.), 2024

Building / Room		Program Room Number	8	30	9	30	10	30	11	30	12	30
2 F	Convention Hall 1/4	Room A			OT06 J	S06 Human Immunology in 2024 US-Japan Cooperative Medical Sciences Program Co-organized Session	E				C05 AstraZeneca K.K.	J
1 F	101A	Room B			OT07 J	S07 Self-referential Immune Perception ASI-JSI Joint Session/ Self-referential Immune Perception co-organized session	E				C06 MIYARISAN Pharmaceutical Co., Ltd.	E
	101B	Room C			OT08 J	S08 Material symbiosis: From immune regulation to emerging modality DGI-JSI Joint Session/ Grant-in-Aid for Transformative Research Areas(A) "Biophysical Chemistry for Material Symbiosis" co-organized session	E				T04 Standard BioTools K.K.	J
	101C	Room D			OT09 J	S09 Immunological mechanism and future design of vaccine AMED SCARDA Co-organized Session	E				T05 Nippon Becton Dickinson Company, Ltd.	J
	102	Room E			OT10 J	S10 Nervous System and Immune Tolerance US-Japan Cooperative Medical Sciences Program Co-organized Session	E				C07 MSD K.K.	J
	103	Room F	8:30	9:00					11:30		T06 10x Genomics	J
	107	Room G									Young Researchers' Forum: Let's Talk Together about Careers of Researchers	
	108	Room H							11:30		12:50	
2 F	Convention Hall 3/4	Equipment Exhibition										
		Poster	8:30	Installation								

OT | Overview Talk **S** | Symposium **C** | Clinical Seminar
T | Technical Seminar **WS** | Workshop **A** | Afternoon Seminar
E in English **J** in Japanese **E** | Evening Seminar

13		30		14		30		15		30		16		30		17		30		18		30		19		30		20		30		21	
A02 TOMY DIGITAL BIOLOGY CO., LTD.				J		Award Ceremony & Lectures				J												Get Together Party Dejima Messe Nagasaki 2F Convention Hall											
12:50				13:50		14:00				15:00		WS16 TCR-mediated signaling				E		18:30										20:30					
										WS17 B cell activation and differentiation				E																			
										WS18 Infection immunity 03				E																			
										WS19 Tolerance and immune suppression focusing on regulatory T cell biology				E																			
										WS20 Organ-Specific Immune Diseases				E																			
										WS21 Granulocytes and Mast cells in homeostasis and diseases				E																			
12:50										WS22 New molecular and cellular mechanisms in cancer immunology				E		16:25										18:10							
										15:10								16:40										17:25					
Equipment Exhibition																18:30																	
																18:30																	
Poster Viewing																Poster Discussion (Odd No.)				E		Poster Discussion (Even No.)				E		Removal					

The 53rd Annual Meeting of the Japanese Society for Immunology

Program at a glance

December 5 (Thu.), 2024

Building / Room		Program Room Number	8	30	9	30	10	30	11	30	12	30
2 F	Convention Hall 1/4	Room A			OT11 J	S11 Microbiota-Host Immunity Interactions in Disease SMI/ JSMI Co-organized Session E						OT16 J
1 F	101A	Room B			OT12 J	S12 New directions of T cell receptor research ~ beyond classical views ~ US-Japan Cooperative Medical Sciences Program Co-organized Session E					12:00	C08 Otsuka Pharmaceutical Co., Ltd. J
	101B	Room C			OT13 J	S13 Functional diversity of various myeloid cells in disease pathogenesis US-Japan Cooperative Medical Sciences Program Co-organized Session E						T07 Thermo Fisher Scientific J
	101C	Room D			OT14 J	S14 Immunological memory AMED-CREST "Immune Memory" Sponsored Session E						T08 Leica Microsystems K.K. J
	102	Room E			OT15 J	S15 The forefront of autoimmune research JSI-JCR Joint Session E						JSMI Luncheon Seminar 12:40
	103	Room F	8:30	9:00					11:30		JSMI Luncheon Seminar	
	107	Room G									JSMI Luncheon Seminar	
	108	Room H								11:40	12:30	
2 F	Convention Hall 3/4	Equipment Exhibition										
		Poster	8:30	Installation								

※ The 61st Annual Meeting of the Japanese Society for Mucosal Immunology (JSMI) will be held at the same venue on Thursday, December 5-6.
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OT | Overview Talk

S | Symposium

C | Clinical Seminar

T | Technical Seminar

WS | Workshop

A | Afternoon Seminar

E in English

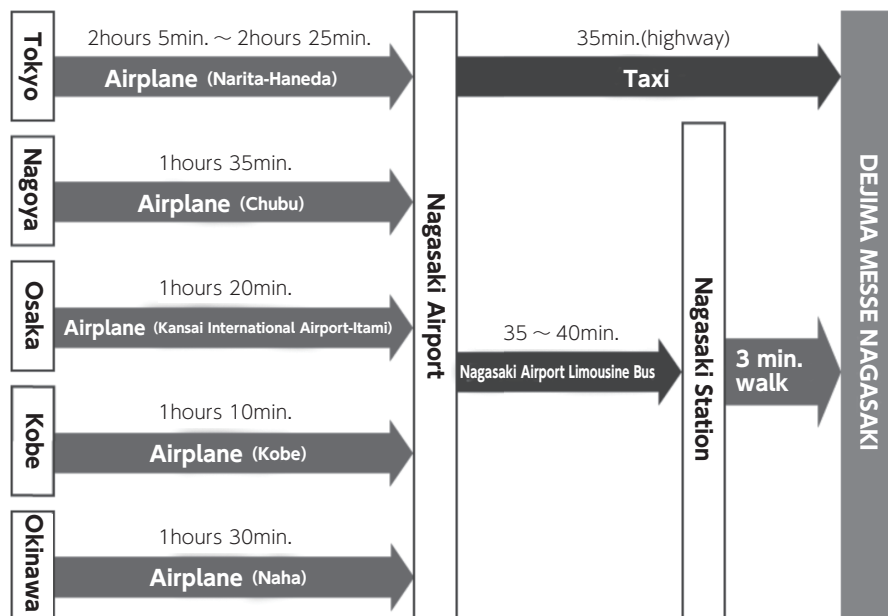
J in Japanese

E | Evening Seminar

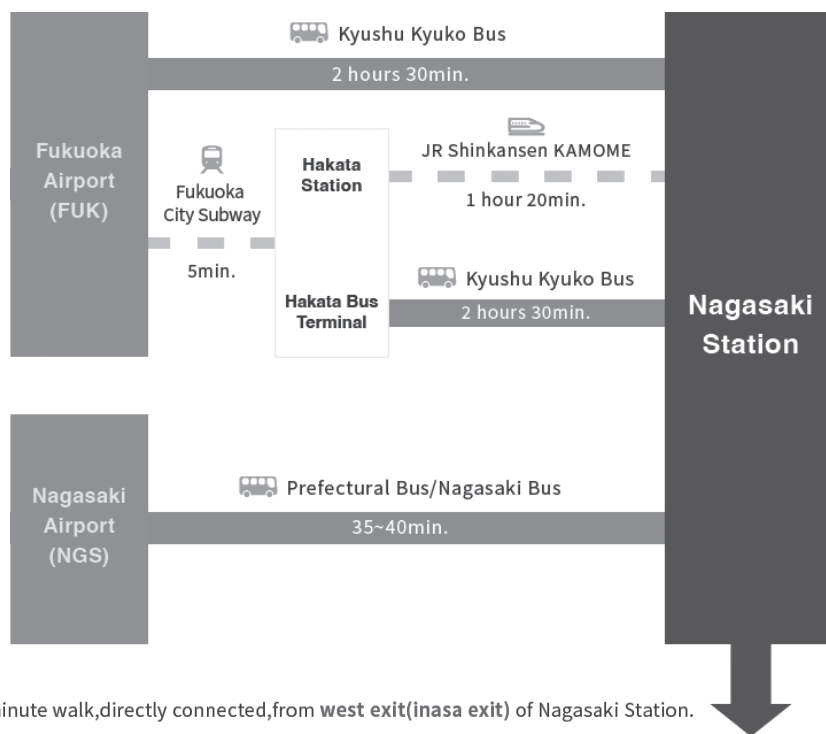
	13	30	14	30	15	30	16	30	17	30	18	30	19	30	20	30	21
	S16 Immunoregulation at the surface barrier KAI-JSI Joint Session/ SMI/ JSMI Co-organized Session				E												
12:55	WS23 T cell regulation in host defense and disease				E	14:05	15:00										
	WS24 Dendritic cells: Molecular basis for regulation of their differentiation, activation, and function				E												
	WS25 B cell homeostasis				E												
	WS26 Systemic Immune Diseases				E												
	WS27 Tolerance and immune suppression for disease control				E												
	WS28 Cytokines and chemokines				E												
	WS29 Cytokines and chemokines				E												
	Equipment Exhibition																
					15:00				16:30								
	Poster Viewing					E Poster Discussion (Odd No.)		E Poster Discussion (Even No.)									

Access to NAGASAKI

From all parts of Japan (Airplane)

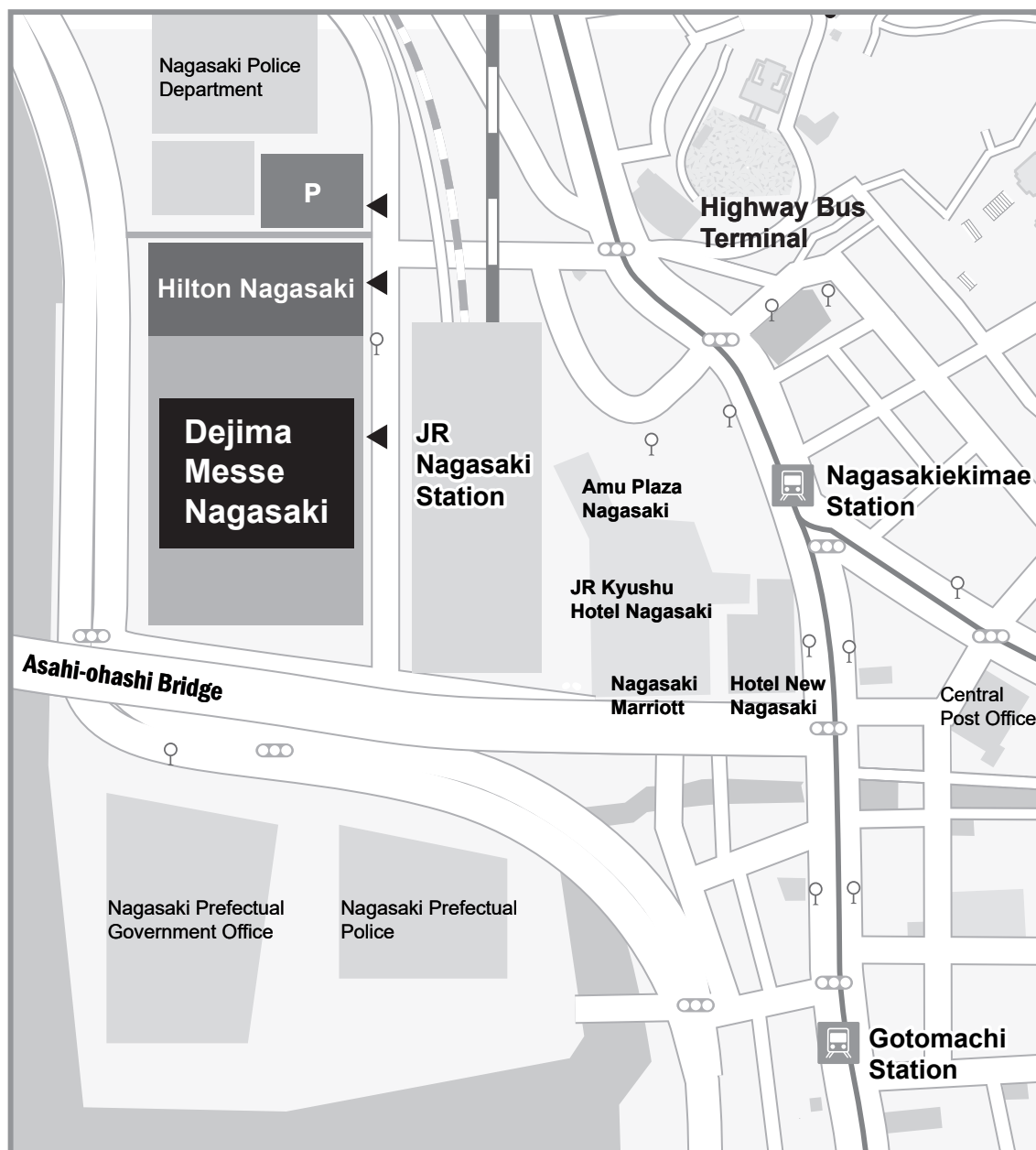


Train, Bus Information



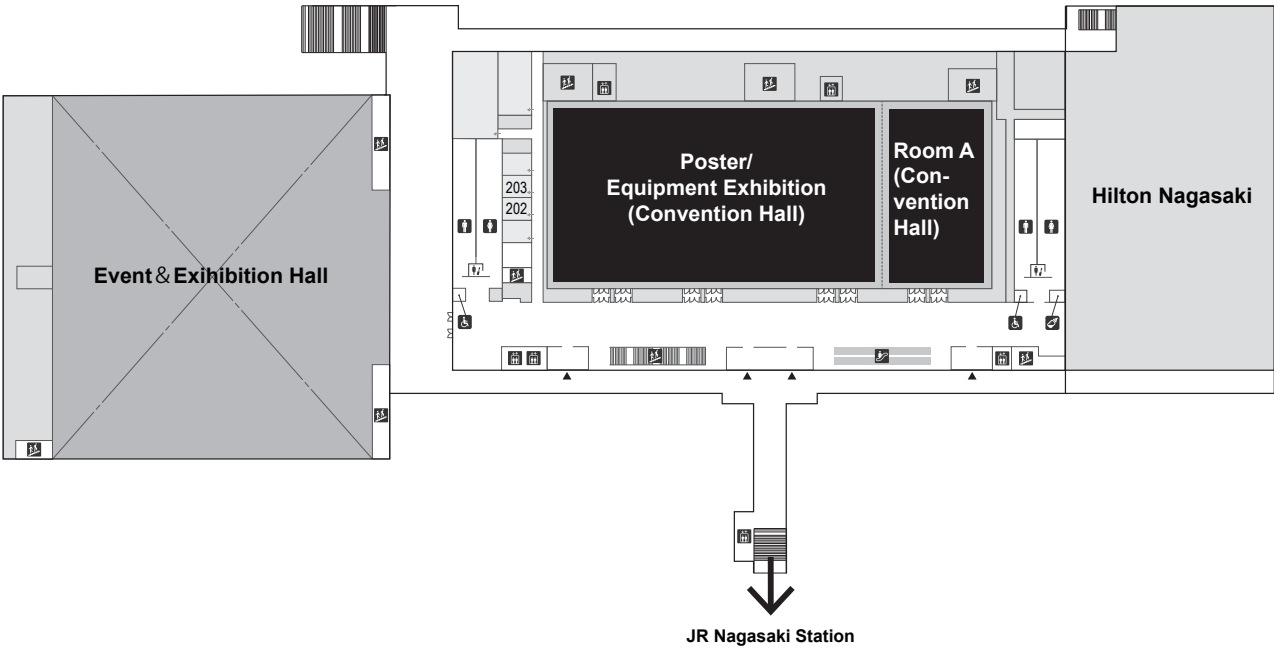
DEJIMA MESSE NAGASAKI

Access Map



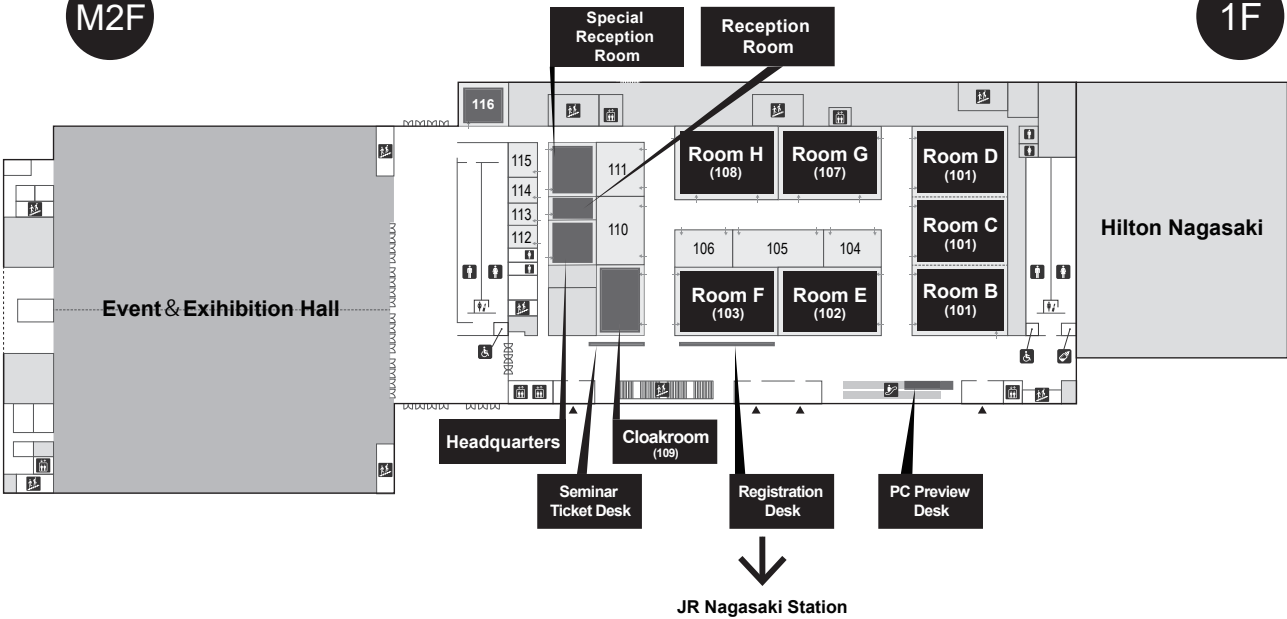
Conference Hall

2F

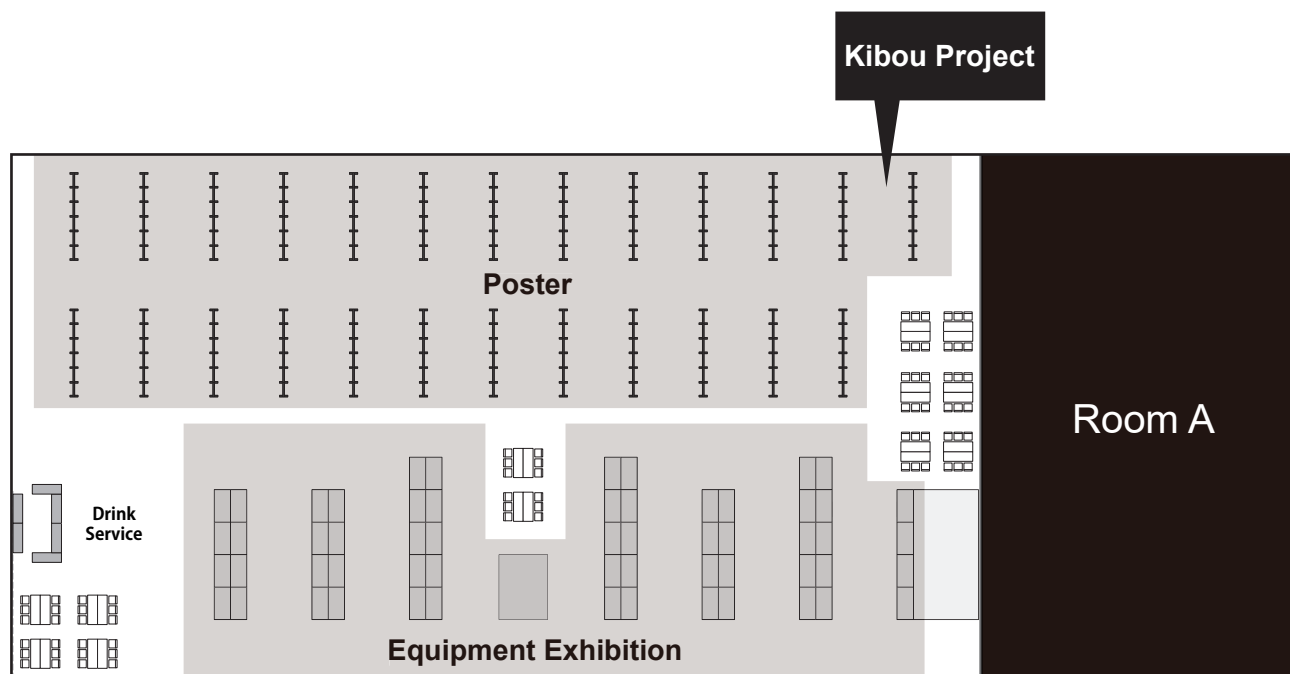


M2F

1F



Exhibition Hall



Exhibitors List			
1	Standard BioTools K.K.	20	ABclonal Biotechnology Co., Ltd.
2	Thermo Fisher Scientific	21	RIKEN BioResource Research Center
3	Iwai Chemicals Co.,Ltd.	22	PharmaCo-Cell Co., Ltd. / Sano Co., Ltd.
4	VERITAS Corporation	23	ThinkCyte K.K.
5	CellSeed Inc.	24	TOYO Corporation
6	TECHNO SUZUTA CO., LTD.	25	MedChemExpress Japan
7	IVIM Technology	26	TissueGnostics
8	QIAGEN K.K.	27	GenScript Japan
9	Mirxes Japan Co. Ltd.	28	GemPharmatech Co., Ltd.
10	Toyobo engineering Co., Ltd.	29	Sino Biological JAPAN Inc.
11	Azenta Life Sciences	30	NACALAI TESQUE,INC.
12	Bioengineering Lab. Co., Ltd.	31	Proteintech Japan Co., Ltd.
13	Revvity Inc.	32	COSMO BIO CO., LTD.
14	SOPHIA Co.,Ltd.	33	Nippon Becton Dickinson Company, Ltd.
15	ASONE CORPORATION	34	Miltenyi Biotec K.K.
16	Bio-Techne(Proteinsimple, ACD, R&D Systems, NOVUS, TOCRIS)	35	10x Genomics
17	Beckman Coulter K.K	36	Cytek Japan Corporation
18	Sony Corporation	37	TOMY DIGITAL BIOLOGY CO., LTD.
19	FUJIFILM Wako Pure Chemical Corporation		

ご 案 内

本学術集会は、現地開催となります。オンライン配信および事後配信はありませんのでご注意ください。
12月5日（木）-6日（金）に第61回日本消化器免疫学会総会（JSMI）が同会場で開催されます。
本学術集会の参加費をお支払いされた方は、第61回日本消化器免疫学会総会のプログラムもすべて参加可能となります。JSMIのプログラムは、ホームページをご覧ください。

<https://www2.aeplan.co.jp/jsmi2024/>

1. 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「Confit」へ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ください。

◆ 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いたします。

〈当日参加費（後期登録）〉

正会員	15,000 円
学生会員 *	3,000 円
学部学生会員 *	無 料
非会員	19,000 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。

* 当日参加費のお支払いは現金のみです。

* 参加費にランチョンセミナー等のお弁当代は含まれておりません。

* 適格請求書発行事業者の登録番号：T9010005008442

〈参加受付開設時間〉

12月3日（火）	7：45 ～ 17：00
12月4日（水）	8：00 ～ 17：00
12月5日（木）	8：00 ～ 13：00

◆ 名誉会員・功労会員

1 階 ホワイエの学会事務局デスクにお越しください。

2. 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。2025 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。

【年会費】

国内正会員	11,000 円
国内学生会員（博士）*	3,000 円
国内学生会員（学部・修士）*	0 円
海外正会員	12,000 円
海外学生会員（博士）*	4,000 円
海外学生会員（学部・修士）*	0 円

【入会金】

国内正会員、国内学生会員（博士）、
海外正会員、海外学生会員（博士）：1,000 円
国内学生会員（学部・修士）*、
海外学生会員（学部・修士）*：0 円
* 学生会員（博士・学部・修士）の方は
学生証をご提示ください。

※一般演題の筆頭著者（発表者）は、2024 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。

3. 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。

2024 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。

4. 授賞式・受賞講演

授賞式：12 月 4 日（水）14:00 ～ 14:10 Room A（コンベンションホール）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 4 日（水）14:10 ～ 15:00 ※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

5. 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。

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 Session

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。

JSI-JCR Joint Session

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。

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フォ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。

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口頭発表が行われます。口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。

若手研究者フォーラム「共に語る研究者キャリアの道」

日時：12月4日(水) 11時30分～12時50分

場所：Room G (50名程度)

※昼食(お弁当)を無料でご用意します。

※お子様連れでのご参加も歓迎します(昼食はご持参いただくか、お子様用にお弁当を予約してください)。

※会場に空きがあれば当日の飛び込み参加も可能ですが、昼食がご用意できない可能性がありますことご了承ください。

サテライトワークショップ

日時：12月4日(水) 20時30分～

場所：TBD(長崎駅周辺を予定)

定員：40名程度(要事前予約、会費制(3000円～5000円程度を予定、学生無料))

『若手研究者フォーラム「共に語る研究者キャリアの道」』での議論を受け、さらに踏み込んだ議論を行えるようにサテライトのワークショップの実施を2日目の学術集会後に予定。スケジュールコンフリクトのためにフォーラムには参加できなかった方も是非サテライトワークショップへの参加をご検討ください。また、お子様連れでの参加も可能です。

※フォーラムでの昼食の事前準備及びサテライトワークショップ会場への参加人数の確認のため、11月15日(金曜日)を目途にご回答をいただけますと幸いです。

(本フォーム回答目安時間：3分)

〈アンケート URL〉

<https://forms.gle/Zcp8MXvtNuXAL8EQA>

お問い合わせ：「研究者の未来をみんなで創る会」

担当：鈴木忍(京都大学)

お問い合わせ先：menneki.wakate.mirai@gmail.com

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

テクニカルセミナー、クリニカルセミナーはお昼の時間帯に、イブニングセミナーは夜の時間帯に行います。お弁当の入手方法については、次項の「6. 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・イブニングセミナー

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します。だくセミナーです。

6. セミナー整理券（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）

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：1 階 ホワイエ

配布時間：各日 OPEN ～ 11:00 ※ 11:00 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 10 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、お弁当の配布はございませんのでご了承ください。

7. 機器・試薬等展示

会期中、大会会場で機器・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。

8. 会員懇親会

日 時：12月4日（木）18:30-20:30

場 所：出島メッセ長崎 2 階 コンベンションホール

参 加 費：会員・非会員 5,000 円 学生会員・非会員学生・学部生 2,000 円

受 付：出島メッセ長崎 1 階 ホワイエ

参加人数には限りがございますので、お早めにお申し込みをお願いします。

9. インターネット接続

会場内では Wi-Fi 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。

10. 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、口頭発表会場、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

This meeting will be held on-site. No online distribution of any programs during and after the meeting will be available.

The 61st Annual Meeting of the Japanese Society for Mucosal Immunology (JSMI) will be held at the same venue on Thursday, December 5 - 6.

Those who have paid the registration fee for this meeting will also be able to attend the entire program of the 61st Annual Meeting of the Japanese Society for Mucosal Immunology (JSMI).

For the program of JSMI, please visit the website: <https://www2.aeplan.co.jp/jsmi2024/>

1. On-site Participation

◆ Participants who registered online

Log into your account of Confit, 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 near the Registration Desk.

◆ Participants who register on-site

Please come to the registration desk, pay the 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 Fee (Late Registration)〉

Member	JPY 15,000
Doctoral Student*	JPY 3,000
Undergraduate and Master's Degree Student*	Free
Non-Member	JPY 19,000
Doctoral Student Non-Member*	JPY 7,000
Undergraduate and Master's Student Non-Member Student*	Free

*All of students are required to show their student ID.

*We accept cash only.

〈Registration Desk opening hours〉

December 3 (Tue)	7:45 - 17:00
December 4 (Wed)	8:00 - 17:00
December 5 (Thu)	8:00 - 13:00

◆ Honorary members / Meritorious members

Please come to the JSI Secretariat Desk at Foyer, 1F.

2. 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.

Annual Membership Fee

(Domestic)

Member	JPY 11,000
Doctoral Student*	JPY 3,000
Undergraduate and Master's Degree Student*	Free

(Overseas)

Member	JPY 12,000
Doctoral Student*	JPY 4,000
Undergraduate and Master's Degree Student*	Free

Application Fee

Member, Doctoral Student	JPY1,000
Undergraduate and Master's Degree Student*	Free

*All of students are required to show their student ID.

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

3. Meeting Program / Proceedings (Abstracts)

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

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

If you completed the payment of 2024 annual membership fee, but 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..

4. Awards Ceremony & Lectures

Ceremonies: Wednesday, December 4, 14:00-14:10, Room A (Convention 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 Immunology Outstanding Merit Award Ceremony

Lectures: Wednesday, December 4, 14:10-15:00, Room A (Convention Hall A)

Lectures below will be held after the above Ceremonies.

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

5. Programs

The 53rd JSI meeting will have following programs.

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 topics (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 Session

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

JSI-JCR Joint Session

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

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.

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.

Young Researchers' Forum: "Discussing Career Paths for Researchers Together"

Date and Time: Wednesday, December 4th , 11:30 AM - 12:50 PM

Venue: Room G (Around 50 participants)

*A complimentary lunch (bento box) will be provided.

*We welcome participants with children (please bring your child's lunch or ask us additional bento boxes for them from a below form).

*Walk-in Participation: If space is available, walk-ins will be accepted on the day of the event, but we may not be able to provide lunch.

Satellite Workshop

Date and Time: Wednesday, December 4th , 8:30 PM ~

Venue: TBD (Planned to be near Nagasaki Station)

Capacity: Around 40 participants (advance registration required; participation fee would be 3,000 to 5000 yen. Free for Students.)

Following the discussions held at the Young Researchers' Forum "Discussing Career Paths for Researchers Together," we will host a more in-depth discussion at the satellite workshop on the evening of the second day of the meeting. Even if you are unable to attend the Forum due to schedule conflicts, we encourage you to consider participating in the Satellite Workshop.

※ To help us prepare lunches for the Forum and confirm the number of participants for the Satellite Workshop, we kindly ask you to respond by Friday, November 15th.

(Estimated time to complete this form: 3 minutes)

<Questionnaire>

<https://forms.gle/Zcp8MXvtNuXAL8EQA>

For inquiries, contact:

Email: menneki.wakate.mirai@gmail.com

(Shinobu Suzuki, Kyoto University)

Technical Seminars, Clinical Seminars, Evening Seminar

Technical Seminars and Clinical Seminars will be held during the lunch time. And, Evening Seminar will be held during the evening time.

Please refer to “6. Seminar Ticket” for more information regarding Technical/Evening/Clinical Seminars. Language of each seminar can be found on “At a Glance” of the program page of our website.

◆ Technical Seminars, Evening Seminar

Those seminars aim to promote interaction between basic research, application research and development research through introducing experimental methods with latest life science related reagents, 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.

6. Seminar Ticket (Technical, Evening, Clinical, Seminars)

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

◆ Seminar Ticket Desk

One ticket for one person on a day (except Evening Seminar). 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: Foyer, 1F

Time: OPEN-11:00 (After 11:00, 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 10 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.

7. Commercial Exhibition – Exhibition of Machineries and Reagents

Exhibitions of machineries and reagents will be held. There will be 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 a chance to win a special gift. Look forward to your participation in the stamp tally.

8. Get Together Party

Date and Time: December 4, 18:30-20:30

Venue: Dejima Messe Nagasaki

Fee: Member and Non-member JPY5,000 Student and Student Non-member JPY2,000

Registration desk: Foyer, 1F

The number of participants is limited. We recommend you register as early as possible.

9. Internet access

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

10. Photographing and recording

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

Overview Talk

Program for Overview Talks

8:30 ~ 9:00, Tuesday, December 3

OT01 Overview Talk 01 Room A: Convention Hall

Chairpersons: Takanori Kanai (Keio University)
Naoko Ohtani (Graduate School of Medicine, Osaka Metropolitan University)

Neuro-immune crosstalks and clinical practice

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

8:30 ~ 9:00, Tuesday, December 3

OT02 Overview Talk 02 Room B: 101A

Chairpersons: Makoto Murakami (The University of Tokyo Graduate School of Medicine)
Noriko Toyama-Sorimachi (The Institute of Medical Science, The University of Tokyo (IMSUT))

Overview: Immunometabolism

Takehiko Yokomizo Department of Biochemistry, Juntendo University Graduate School of Medicine

8:30 ~ 9:00, Tuesday, December 3

OT03 Overview Talk 03 Room C: 101B

Chairpersons: Yuki Kagoya (Keio University)
Akiko Ogawa (Institute of Development, Aging and Cancer, Tohoku University)

Epigenetics in cancer immunology and immunotherapy

Yuki Kagoya Keio University

8:30 ~ 8:42, Tuesday, December 3

OT04 Overview Talk 04 Room D: 101C

Chairpersons: Naoko Satoh-Takayama (RIKEN Center for Integrative Medical Sciences)
Hiroki Kabata (Division of Pulmonary Medicine, Department of Internal Medicine, Keio University School of Medicine)

An overview of the frontiers of innate lymphocyte research, especially ILC2 research

Hiroki Kabata Keio University School of Medicine, Department of Pulmonary Medicine

8:30 ~ 9:00, Tuesday, December 3

OT05 Overview Talk 05 Room E: 102

Chairpersons: Saeko Nakajima (Kyoto University)

Yosuke Kurashima (Department of Innovative Medicine, Chiba University, Graduate School of Medicine)

Recent Advances in Allergic Research

Saeko Nakajima Kyoto University

8:30 ~ 9:00, Wednesday, December 4

OT06 Overview Talk 06 Room A: Convention Hall

Chairpersons: Hideki Ueno (Department of Immunology, Graduate School of Medicine, Kyoto University)

Ignacio Sanz (Emory University School of Medicine)

Human Immunology in 2024 – Overview Talk –

Hiroyuki Yoshitomi Department of Immunology, Graduate School of medicine, Kyoto University

8:30 ~ 9:00, Wednesday, December 4

OT07 Overview Talk 07 Room B: 101A

Chairpersons: Sho Yamasaki (RIMD/IFReC, Osaka University)

Motoko Kimura (Chiba University, Graduate School of Medicine)

What is the immune self?

Takeshi Nitta Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science

8:30 ~ 9:00, Wednesday, December 4

OT08 Overview Talk 08 Room C: 101B

Chairpersons: Asako Yamayoshi (Tokyo Institute of Technology/ Nagasaki University)

Osamu Takeuchi (Graduate School of Medicine, Kyoto University)

Material symbiosis: From immune regulation to emerging modality

Asako Yamayoshi Tokyo Institute of Technology / Nagasaki Univ.

8:30 ~ 9:00, Wednesday, December 4

OT09 Overview Talk 09 Room D: 101C

Chairpersons: Ken Ishii (The Institute of Medical Science, The University of Tokyo)

Sophie Valkenburg (The University of Melbourne)

Advances in Vaccine Science: Mechanisms and Future Directions

Kouji Kobiyama Division of Vaccine Science, The Institute of Medical Science, The University of Tokyo / International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo

8:30 ~ 9:00, Wednesday, December 4

OT10 Overview Talk 10 Room E: 102

Chairpersons: Minako Ito (Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University)

Tomohisa Sujino (Center for Diagnostic and Therapeutic Endoscopy, Keio University School of Medicine)

Memory-like regulatory T cells and oxytocin protect brain tissue from damage

Minako Ito Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University

8:30 ~ 9:00, Thursday, December 5

OT11 Overview Talk 11 Room A: Convention Hall

Chairpersons: Hiroko Nagao-Kitamoto (Osaka University Immunology Frontier Research Center)
Yun-Gi Kim (Kitasato University School of Pharmacy)

Intestinal Microbiota and host diseases

Hisako Kayama Osaka University

8:30 ~ 9:00, Thursday, December 5

OT12 Overview Talk 12 Room B: 101A

Chairpersons: Kazuyoshi Ishigaki (RIKEN Center for Integrative Medical Sciences, Laboratory for Human Immunogenetics)

Kanako Shimizu (RIKEN Center for Integrative Medical Sciences, Laboratory for Immunotherapy)

New directions of T cell receptor research

Kazuyoshi Ishigaki Department of Microbiology and Immunology, Keio University School of Medicine / Keio University Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q) / Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences

8:30 ~ 9:00, Thursday, December 5

OT13 Overview Talk 13 Room C: 101B

Chairpersons: Takashi Satoh (Graduate School and Faculty of Medicine, Institute of Science Tokyo)

Yumiko Oishi (Department of Medical Biochemistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

Diversity of myeloid cells and their functions

Takashi Satoh Graduate School and Faculty of Medicine, Institute of Science Tokyo

8:30 ~ 9:00, Thursday, December 5

OT14 Overview Talk 14 Room D: 101C

Chairpersons: Takeda Kiyoshi (Immunology Frontier Research Center, Osaka University)
Yoshihiro Baba (Division of Immunology and Genome Biology, Medical Institute of Bioregulation,
Kyushu University)

Understanding of Immunological memory in health and disease

Motoko Y. Kimura Graduate School of Medicine, Chiba University

8:30 ~ 9:00, Thursday, December 5

OT15 Overview Talk 15 Room E: 102

Chairpersons: Sachiko Miyake (Department of Immunology, Juntendo University Graduate School of Medicine)
Keishi Fujio (The University of Tokyo)

Overview of autoimmune disease research

Kimito Kawahata St. Marianna University School of Medicine

12:30 ~ 12:55, Thursday, December 5

OT16 Overview Talk 16 Room A: Convention Hall

Chairpersons: Reiko Shinkura (University of Tokyo)
William Agace (Department of Immunology and Microbiology, Medical Faculty, Copenhagen
University)

Overview of the immunoregulation at the surface barrier

Hiroshi Ohno Laboratoty for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences

Symposium

Program for Symposia

Symposium 01

Room A 9:00 ~ 11:30 December 3

S01. Neuro-immune crosstalks AMED-CREST/PRIME "MultiSensing", "Microbiome", and "Stress" Sponsored Session

Chairpersons: Takanori Kanai (Keio University)
Naoko Ohtani (Graduate School of Medicine, Osaka Metropolitan University)

S01-01

9:00-9:30

The Role of the gut-brain axis in maintaining gut homeostasis and regulating nutritional preferences

Toshiaki Teratani Gastroenterology and Hepatology, School of Medicine, Keio University

S01-02

9:30-10:00

Toward Understanding Mechanisms for Gut Microbiota-Nervous System Interactions

Takahiro Ohara University of California Los Angeles

S01-03

10:00-10:30

Gut-liver axis-mediated mechanism of liver cancer development

Naoko Ohtani Graduate School of Medicine, Osaka Metropolitan University

S01-04

10:30-11:00

Regulation of pain chronicity by neuro-immune crosstalk

Makoto Tsuda Department of Molecular and System Pharmacology, Graduate School of Pharmaceutical Sciences, Kyushu University

S01-05

11:00-11:30

Brain control of peripheral immunity

Wenfei Han Max-Planck Institute for Biological Cybernetics, Germany

Symposium 02

Room B 9:00 ~ 11:30 December 3

S02. Immunometabolism US-Japan Cooperative Medical Sciences Program Co-organized Session Oxford University Press

Chairpersons: Makoto Murakami (The University of Tokyo Graduate School of Medicine)
Noriko Toyama-Sorimachi (The Institute of Medical Science, The University of Tokyo (IMSUT))

S02-01

9:00-9:25

Sphingosine 1-phosphate (S1P) receptor modulator FTY-720 accesses a dual mechanism for EAE amelioration through both immune cells, and CNS astrocytes involving B₁₂-TCN2-CD320

Jerold Chun Sanford Burnham Prebys Medical Discovery Institute

S02-02

9:25-9:50

Novel mechanisms regulating macrophage metabolic properties and their impact on disease states

Noriko Toyama-Sorimachi The Institute of Medical Science, The University of Tokyo

S02-03

9:50-10:15

Immune metabolism in lymphoma

Ai Kotani Research Institute of Microbial Diseases, Osaka University

S02-04

10:15-10:40

Manipulating Lipid Metabolism to Improve Tumor Immunotherapy

Jessica Thaxton Immunotherapy Program, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel / Department of Cell Biology & Physiology, University of North Carolina at Chapel Hill

S02-05

10:40-11:05

The novel function of lipid flux on ROR γ t-mediated Th17 cell pathogenicity

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

S02-06

11:05-11:30

Lipid-orchestrated paracrine circuit via sPLA₂-driven hydrolysis of extracellular phospholipids coordinates allergy, autoimmunity, and cancer

Makoto Murakami The University of Tokyo Graduate School of Medicine

Oxford University Press

Symposium 03

Room C 9:00 ~ 11:30 December 3

S03. Epigenetic regulation of antitumor immune response US-Japan Cooperative Medical Sciences Program Co-organized Session

Chairpersons: Yuki Kagoya (Keio University)

Akiko Ogawa (Institute of Development, Aging and Cancer, Tohoku University)

S03-01

9:00-9:30

Epigenetic regulation of mucosal immune cells and beyond

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

S03-02

9:30-10:00

Epigenetic Mechanisms of Immune Evasion in Cancer

Marian Burr Australian National University / Canberra Hospital, Australia

S03-03

10:00-10:30

Role of Regnase-1-related RNases in regulating inflammation and tumor immunity

Osamu Takeuchi Graduate School of Medicine, Kyoto University

S03-04

10:30-11:00

Metabolic regulation of modified RNA in immunity and disease

Akiko Ogawa IDAC, Tohoku University

S03-05

11:00-11:30

Dissecting the crosstalk of nutrient sensing, stress response signalling and immune evasion

Thales Papagiannakopoulos NYU Grossman School of Medicine

Symposium 04

Room D 8:42 ~ 11:30 December 3

S04. The front line of innate lymphoid cells research SFI-JSI Joint Session

Chairpersons: Naoko Satoh-Takayama (RIKEN Center for Integrative Medical Sciences)

Hiroki Kabata (Division of Pulmonary Medicine, Department of Internal Medicine, Keio University School of Medicine)

S04-01

8:42-9:10

Themis2 regulates natural killer cell memory function and formation

Tsukasa Nabekura Division of Immune Response, Aichi Cancer Center Research Institute / Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba / R&D Center for Innovative Drug Discovery, University of Tsukuba / R&D Center for Innovative Drug Discovery, University of Tsukuba

S04-02

9:10-9:38

Development and heterogeneity of group 1 innate lymphoid cells

Koichi Ikuta Kyoto Univ.

S04-03

9:38-10:06

Amplification of autoimmune organ damage by NKp46-activated innate lymphoid cells

Andreas Diefenbach The Berlin Centre for the Biology of Health, Germany

S04-04

10:06-10:34

Stomach controlled by its unique immunity and work for mucosal defense

Naoko Satoh-Takayama Precision Immune Regulation RIKEN ECL Research Unit, IMS, RIKEN / Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University

S04-05

10:34-11:02

Inflammation triggers ILC3 patrolling of the intestinal barrier

Nicolas Serafini Innate Immunity Unit, Institut Pasteur, Inserm U1223

S04-06

11:02-11:30

Innate immune determinants of intestinal physiology, tolerance, and inflammation

Gregory F Sonnenberg Joan and Sanford I. Weill Department of Medicine, Division of Gastroenterology & Hepatology, Weill Cornell Medicine, Cornell University, New York, NY, USA / Jill Roberts Institute for Research in Inflammatory Bowel Disease, Weill Cornell Medicine, Cornell University, New York, NY, USA

Symposium 05

Room E 9:00 ~ 11:30 December 3

**S05. Recent advances in allergic research
JSI-JSA Joint Session**

Chairpersons: Saeko Nakajima (Kyoto University)

Yosuke Kurashima (Department of Innovative Medicine, Chiba University, Graduate School of Medicine)

S05-01

9:00-9:30

Maternal antibodies shape the development of the neonatal microbiota and immune response

Timothy Hand University of Pittsburgh/UPMC Children's Hospital of Pittsburgh

S05-02

9:30-10:00

Neuroimmune Regulation of Tissue Injury and Repair

Michel Enamorado Icahn School of Medicine at Mount Sinai

S05-03

10:00-10:30

How IL-33 state determines ILC2-driven inflammation

Kazuyo Moro Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University / Laboratory for Innate Immune Systems, RIKEN-IMS / Laboratory for Innate Immune Systems, iFReC, Osaka University

S05-04

10:30-11:00

Novel Pathogenic Mechanisms in Allergic Diseases: lessons from Monogenic Allergic Disorders and Novel Environmental Triggers

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

S05-05

11:00-11:30

Targeting $\alpha_v\beta_3$ integrin to inhibit allergic inflammation

Kenji Izuhara Division of Allergy, Department of Biomolecular Sciences, Saga Medical School

S06. Human Immunology in 2024 US-Japan Cooperative Medical Sciences Program Co-organized Session

Chairpersons: Hideki Ueno (Department of Immunology, Graduate School of Medicine, Kyoto University)

Ignacio Sanz (Emory University School of Medicine, USA)

S06-01

9:00-9:25

Designing original transcriptome technologies to dissect human immune-mediated diseases

Yasuhiro Murakawa Kyoto University / RIKEN

S06-02

9:25-9:50

Identification of immunological pathways associated with prognosis of autoimmune diseases

Keishi Fujio Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo

S06-03

9:50-10:15

Regulation of pathogenic and protective B cell responses in SLE and infection

Ignacio Sanz Emory University School of Medicine, USA

S06-04

10:15-10:40

The Absence of Long-lived Plasma Cells after the COVID mRNA Vaccine

Lee F. Eun-Hyung Emory University, USA

S06-05

10:40-11:05

T cells in in synucleinopathies

Sachiko Miyake Department of Immunology, Juntendo University Graduate School of Medicine

S06-06

11:05-11:30

Human Liver Immunology Research Using Liver Specimens

Hideki Ueno Department of Immunology, Graduate School of Medicine, Kyoto University

S07. Self-referential Immune Perception ASI-JSI Joint Session/ Self-referential Immune Perception co-organized session

Chairpersons: Sho Yamasaki (RIMD/IFReC, Osaka University)

Motoko Kimura (Chiba University, Graduate School of Medicine)

S07-01

9:00-9:30

Immune regulation by LAG-3, an inhibitory co-receptor of a unique target selectivity

Takumi Maruhashi Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo

S07-02

9:30-10:00

Unveiling HLA's diverse roles through drug-induced immunotoxicity

Shigeki Aoki Chiba Univ.

S07-03

10:00-10:30

Unconventional T cell receptor recognition of unconventional ligands

Jamie Rossjohn Monash University, Australia

S07-04

10:30-11:00

The immune-mesenchymal interaction in autoimmune diseases

Noriko Komatsu The Medical and Dental University

S07-05

11:00-11:30

Regulatory T cells as purveyors of immune tolerance to self and non-self

Alexander Rudensky Howard Hughes Medical Institute and Sloan Kettering Institute

Symposium 08

Room C 9:00 ~ 11:30 December 4

S08. Material symbiosis: From immune regulation to emerging modality

DGFI-JSI Joint Session/ Grant-in-Aid for Transformative Research Areas(A)

"Biophysical Chemistry for Material Symbiosis" co-organized session

Chairpersons: Asako Yamayoshi (Tokyo Institute of Technology/ Nagasaki University)
Osamu Takeuchi (Graduate School of Medicine, Kyoto University)

S08-01

9:00-9:30

Dissecting the Roles of Nucleases in Innate Immunity

Wen Zhou Department of Immunology and Microbiology, Southern University of Science and Technology

S08-02

9:30-10:00

mRNA Decay as a Novel Therapeutic Target in T-Cell Immunity

Takuya Uehata Graduate School of Medicine, Kyoto University

S08-03

10:00-10:30

Escape from recognition by nucleic acid-binding proteins to improve the performance of nucleic acid drugs

Yukiko Kamiya Kobe Pharmaceutical University / Nagoya University

S08-04

10:30-11:00

Nanoparticle formulations for safe and effective immune tolerance induction for allergy immunotherapy

Takeshi Mori Kyushu University

S08-05

11:00-11:30

Nucleic acid immunity and therapeutics

Gunther Hartmann University of Bonn/University Hospital Bonn, Germany

Symposium 09

Room D 9:00 ~ 11:30 December 4

S09. Immunological mechanism and future design of vaccine

AMED SCARDA Co-organized Session

Chairpersons: Ken Ishii (The Institute of Medical Science, The University of Tokyo)
Sophie Valkenburg (The University of Melbourne)

S09-01

9:00-9:30

Inflammasomes and interferons in vaccine adjuvant efficacy

Ed Lavelle Trinity College Dublin, Ireland

S09-02

9:30-10:00

Science and design of nucleic acid-based vaccines/adjuvants

Ken Ishii The Institute of Medical Science, The University of Tokyo

S09-03

10:00-10:30

Role of Alveolar Macrophages in Promoting CD8+ T Cell Expansion in the Lung

Taro Kawai Laboratory of Molecular Immunobiology, Nara Institute of Science and Technology (NAIST)

S09-04

10:30-11:00

Adjuvant advantage in a longitudinal randomized control trial of alternating enhanced influenza vaccines in older adults

Sophie Valkenburg The University of Melbourne, Australia

S09-05

11:00-11:30

Adenovirus and Gene Therapy: A Long and Winding Road

David Curiel Washington University St. Louis, USA

Symposium 10

Room E 9:00 ~ 11:30 December 4

S10. Nervous System and Immune Tolerance

US-Japan Cooperative Medical Sciences Program Co-organized Session

Chairpersons: Minako Ito (Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University)
 Tomohisa Sujino (Center for Diagnostic and Therapeutic Endoscopy, Keio University School of Medicine)

S10-01

9:00-9:20

Nervous System and Immune Tolerance

Minako Ito Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University

S10-02

9:20-9:55

Endogenous self-peptides guard CNS immune privilege

Min Woo Kim Washington University in St. Louis

S10-03

9:55-10:20

Gut-Brain Axis and neurotransmitters from the gut influence extraintestinal diseases

Tomohisa Sujino Keio University, Center for Diagnosis and Therapeutic Endoscopy / Keio Global Research Institute

S10-04

10:20-10:55

Circadian control of regulatory T cells by enteric neurons and eosinophils

Daniel Mucida The Rockefeller University / Howard Hughes Medical Institute

S10-05

10:55-11:30

Runx3/Cbfb regulates Rorgt⁺ Treg differentiation in the gut through regulating development and function of Rort⁺ Thetis cells

Ichiro Taniuchi RIKEN IMS

Symposium 11

Room A 9:00 ~ 11:30 December 5

S11. Microbiota-Host Immunity Interactions in Disease

SMI/ JSMI Co-organized Session

Chairpersons: Hiroko Nagao-Kitamoto (Osaka University Immunology Frontier Research Center)
 Yun-Gi Kim (Kitasato University School of Pharmacy)

S11-01

9:00-9:30

Immune regulation by the gut microbiome in early development

Melody Y Zeng Weill Cornell Medicine

S11-02

9:30-10:00

Sucrose Associated Microbiota and Immunity

Yoshinaga Kawano Keio University School of Medicine, JPN, Division of Endocrinology, Metabolism, Nephrology

S11-03

10:00-10:30

Gut complement induced by the microbiota combats pathogens and spares commensals

Meng Wu Washington University in St. Louis / Harvard Medical School

S11-04

10:30-11:00

Immune phenotype-guided identification of disease-associated pathobionts in IBD

Hiroko Nagao-Kitamoto Osaka University, IFRc

S11-05

11:00-11:30

Mapping the T cell repertoire to a model system of the human gut microbiome

Kazuki Nagashima Department of Molecular and Cellular Biology, Harvard University

Symposium 12

Room B 9:00 ~ 11:30 December 5

S12. New directions of T cell receptor research ~ beyond classical views ~ US-Japan Cooperative Medical Sciences Program Co-organized Session

Chairpersons: Kazuyoshi Ishigaki (RIKEN Center for Integrative Medical Sciences, Laboratory for Human Immunogenetics)
Kanao Shimizu (RIKEN Center for Integrative Medical Sciences, Laboratory for Immunotherapy)

S12-01

9:00-9:30

Identification of Immunogenic Neoantigens from ARID1A-Deficient Tumors During the Development of Resistance to Targeted Therapy

Shin-ichiro Fujii RIKEN IMS, Lab for Immunotherapy / RIKEN IMS, aAVC Drug Translational Unit / RIKEN Drug discovery and medical technology platforms (DMP)

S12-02

9:30-10:00

Deciphering clonotypic responses of human T cells against infection

Sho Yamasaki Research Institute for Microbial Diseases/Immunology Frontier Research Center, Osaka University

S12-03

10:00-10:30

Groundbreaking Insights into T-Cell Receptor Signatures of Cancer-Associated Biomarkers and Their Clinical Implications

Stephanie Bien Adaptive Biotechnologies

S12-04

10:30-11:00

Machine learning for T-cell repertoire analysis

Tetsuya J Kobayashi Institute of Industrial Science, the University of Tokyo

S12-05

11:00-11:30

Spying on the Immune System: What we can learn from decoding the specificity of T cell and B cell receptors

Stephen J. Elledge HHMI and Brigham and Women's Hospital, Harvard Medical School

Symposium 13

Room C 9:00 ~ 11:30 December 5

S13. Functional diversity of various myeloid cells in disease pathogenesis US-Japan Cooperative Medical Sciences Program Co-organized Session

Chairpersons: Takashi Satoh (Graduate School and Faculty of Medicine, Institute of Science Tokyo)
Yumiko Oishi (Department of Medical Biochemistry, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University)

S13-01

9:00-9:30

Sustaining microglial reparative function enhances stroke recovery

Takashi Shichita Institute of Science Tokyo

S13-02

9:30-10:00

Neutrophils: The Power of More Than One

Lai Guan Ng Shanghai Immune Therapy Institute, China

S13-03

10:00-10:30

Hematopoietic-innate immune memory in heart failure and multimorbidity

Ichiro Manabe Chiba University

S13-04

10:30-11:00

The role of read-through transcription based on genetic polymorphisms in alveolar macrophages

Yuichi Mitsui Institute of Science Tokyo

S13-05

11:00-11:30

The TREM2-DAP12 pathway

Marco Colonna Washington University School of Medicine

Symposium 14

Room D 9:00 ~ 11:30 December 5

S14. Immunological memory

AMED-CREST "Immune Memory" Sponsored Session

Chairpersons: Kiyoshi Takeda (Immunology Frontier Research Center, Osaka University)
 Yoshihiro Baba (Division of Immunology and Genome Biology, Medical Institute of
 Bioregulation, Kyushu University)

S14-01

9:00-9:30

Essential role of constitutive BCR signaling in the generation of age-associated B cells

Yoshihiro Baba Medical Institute of Bioregulation, Kyushu University

S14-02

9:30-10:00

Balancing tolerance and immunity at the BCR

Julie Zikherman University of California San Francisco

S14-03

10:00-10:30

Atypical and non-classical CD45RB^{lo} memory B-cells are the majority of circulating SARS-CoV-2 specific B-cells following mRNA vaccination or COVID-19

James Badger Wing Human Single Cell Immunology Team, CiDER, Osaka University / IFRc, Osaka University / CAMaD, Osaka University

S14-04

10:30-11:00

The response of B cells to repeated and chronic antigen exposures: lessons from HIV and SARS-CoV-2

Susan Moir National Institute of Allergy and Infectious Diseases, National Institutes of Health

S14-05

11:00-11:30

Tissue inflammatory memory causes intractable inflammatory disease

Kiyoshi Hirahara Department of Immunology, Graduate School of Medicine, Chiba University / AMED-CREST, AMED

Symposium 15

Room E 9:00 ~ 11:30 December 5

S15. The forefront of autoimmune research

JSI-JCR Joint Session

Chairpersons: Sachiko Miyake (Department of Immunology, Juntendo University Graduate School of
 Medicine)
 Keishi Fujio (The University of Tokyo)

S15-01

9:00-9:30

T cell redirecting therapies for autoimmune disease

Ricardo Grieshaber-Bouyer Friedrich-Alexander-Universität (FAU) Erlangen-Nürnberg

S15-02

9:30-9:54

T Follicular Helper Cells as a Therapeutic Target in Systemic Lupus Erythematosus

Shingo Nakayamada The First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Japan

S15-03

9:54-10:18

The role of age-associated ThA cells in autoimmune diseases

Tomohisa Okamura Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, the University of Tokyo / Department of Allergy and Rheumatology, Graduate School of Medicine, the University of Tokyo

S15-04

10:18-10:48

Identifying Molecular Endotypes in Rheumatoid Arthritis through Deep Synovial Phenotyping: A Path towards Personalized Treatment

Felice Rivellese Centre for Experimental Medicine and Rheumatology (EMR), Queen Mary University of London, London, United Kingdom / Barts Health NHS Trust and Barts Biomedical Research Centre, National Institute for Health and Care Research (NIHR), London, United Kingdom

S15-05

10:48-11:12

Immune-bone cell crosstalk in autoimmune arthritis and stromal immunology

Hiroshi Takayanagi Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo

S15-06

11:12-11:30

The crucial role of self and neoself discrimination by T cells in the pathogenesis of autoimmune diseases

Shunsuke Mori Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, Osaka University

Symposium 16

Room A 13:00 ~ 15:00 December 5

S16. Immunoregulation at the surface barrier
KAI-JSI Joint Session/ SMI/ JSMI Co-organized Session

Chairpersons: Reiko Shinkura (University of Tokyo)
William Agace (Department of Immunology and Microbiology, Medical Faculty, Copenhagen University)**S16-01**

12:55-13:20

Characterizing human intestinal immune compartments

William W Agace Copenhagen University

S16-02

13:20-13:45

Interactions between host and pathogens at the barriers

Cevayir Coban University of Tokyo

S16-03

13:45-14:10

Microbiome Therapeutics for Inflammatory Disorders and Cancer

Sin-Hyeog IM Pohang University of Science and Technology (POSTECH) / ImmunoBiome Inc.

S16-04

14:10-14:35

Patient-donor microbial similarity and donor-derived species contribute to the outcome of FMT in ulcerative colitis

Dai Ishikawa Department of Gastroenterology, Juntendo University School of Medicine / Department of Regenerative Microbiology, Juntendo University School of Medicine

S16-05

14:35-15:00

Mucosal protection by IgA antibodies

Reiko Shinkura The University of Tokyo, IQB

Workshop

○ : Presenter

Program for Workshops

December 3

WS01 Mucosal-Skin Immunity 1

14:00 ~ 15:15 Room A

Chairpersons: Yoshiyuki Goto, Yumi Matsuoka-Nakamura

This workshop will explore the intricate dynamics of mucosal-skin immunity, focusing on the crosstalk between immune and non-immune cells and its crucial role in maintaining homeostasis at barrier sites. We will delve into the interactions between tissue-resident immune cells, the microbiota, and environmental factors, all of which are essential for preserving the delicate balance within these environments. Discussions will also cover how dysbiosis-disruptions in the microbial community-alongside environmental influences, can lead to pathophysiological conditions. By deepening our understanding of these processes, we aim to gain further insights into the mechanisms that regulate immunity and contribute to diseases linked to barrier dysfunction.

WS01-01-O/P

Cytotoxic CD4⁺ T cells eliminate senescent cells by targeting cytomegalovirus antigen

○ Tatsuya Hasegawa^{1,2,3}, Tomonori Oka^{2,3}, Heehwa G. Son^{2,3}, Valeria S. Oliver-Garcia^{2,3}, Marjan Azin^{2,3}, Thomas M. Eisenhaure⁴, David J. Lieb⁴, Nir Hacohen^{2,4}, Shadmehr Demehri^{2,3}

¹MIRAI Technology Institute, Shiseido Co., Ltd., ²Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, ³Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, ⁴Broad Institute of MIT and Harvard

WS01-02-O/P

"Tyzzerella nexilis" strains enriched in mobile genetic elements accelerate multiple sclerosis progression

○ Daiki Takewaki^{1,2}, Yuya Kiguchi^{2,3}, Hiroaki Masuoka², Mallahalli Manu¹, Ben J E Raveney¹, Seiko Narushima⁴, Rina Kurokawa², Yusuke Ogata², Sachiko Miyake⁵, Wakiro Sato¹, Wataru Suda², Takashi Yamamura¹

¹Department of Immunology, National Center of Neurology and Psychiatry, ²Laboratory for Symbiotic Microbiome Sciences, RIKEN Center for Integrative Medical Sciences, ³Department of Computational Biology and Medical Sciences, The University of Tokyo, ⁴Laboratory for Mucosal Immunity, RIKEN Center for Integrative Medical Sciences, ⁵Department of Immunology, Juntendo University

WS01-03-O/P

Maternal gut microbiota induces $\gamma\delta$ T cells at the maternal-fetal interface for immunosurveillance

○ Koichiro Suzuki¹, Takahiro Yamada^{1,2}, Yusuke Kinashi¹, Seiga Komiyama¹, Yuyo Ka³, Kayo Tomiyama³, Nanako Ushio-Watanabe⁴, Yoshifumi Nishikawa⁴, Koji Hase¹

¹Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University, ²Department of Immunobiology, Yale School of Medicine, ³Central Institute for Experimental Medicine and Life Science (CIEM), ⁴National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine

WS01-04-O/P

Unraveling the transcriptional Regulation of CD4⁺ T_{RM} in Crohn's Disease

○ Mitsuru Arase¹, Mari Murakami^{1,2}, Kiyoshi Takeda^{1,2}

¹Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²WPI Immunology Frontier Research Center, Osaka University

WS01-05-O/P

C. albicans-Induced α 1, 2-fucosylation Manipulates Morphogenesis of *C. albicans*

○ Daichi Mori¹, Yoshiyuki Goto^{1,2,3,4}

¹Project for Host Microbial interactions in Symbiosis and Pathogenesis, Division of Molecular Immunology, Medical Mycology Research Center, Chiba University, ²Division of Pandemic and Post-disaster Infectious Diseases, Research Institute of Disaster Medicine, Chiba University, Chiba, ³Division of Infectious Disease Vaccine R&D, Research Institute of Disaster Medicine, Chiba University, Chiba, ⁴Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba

WS01-06-O/P

Mouse IgA modulates human gut microbiota with inflammatory bowel disease patients

○ Keishu Takahashi¹, Naoki Morita¹, Ryutaro Tamano¹, Peng Gao¹, Noriho Iida², Akira Andoh³, Hirotsugu Imaeda⁴, Ken Kurokawa⁵, Mayo Tsuboi⁵, Yoku Hayakawa⁵, Mitsuhiro Fujishiro⁵, Reiko Shinkura¹

¹Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²Department of Gastroenterology, Graduate School of Medical Sciences, Kanazawa University, ³Department of Medicine, Shiga University of Medical Science, ⁴Department of Gastroenterology, Nagahama City Hospital, ⁵Department of Gastroenterology, Graduate School of Medicine, The University of Tokyo

WS01-07-O/P

The Impact of Microbial Lipid Metabolism on Skin Barrier pH Homeostasis○ Yoshihiro Ito¹⁾, Keitaro Fukuda^{1,2)}, Michiko Koizumi-Kitajima¹⁾, Masayuki Amagai^{1,2)}¹⁾Keio University, School of Medicine, Department of Dermatology, ²⁾Laboratory for Skin Homeostasis, IMS, RIKEN

WS01-08-O/P

The interaction between tongue ILC2s and IL-33⁺ duct cells of von Ebner's gland accommodates barrier function against oro-mechanical damage○ Satoshi Koga¹⁾, Kazuyo Moro^{1,2,3)}¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS,³⁾Laboratory for Innate Immune Systems, iFReC, Osaka University**WS02 Cytotoxic T cells**

14:00 ~ 15:15 Room B

Chairpersons: Ruka Setoguchi, Kensuke Takada

Cytotoxic T cells are important for host defense against intracellular pathogens and tumors. In acute infections, a part of cytotoxic effector T cells develop into memory T cells and they persist for long periods to respond to secondary infection. In chronic infections or tumors, sustained TCR signaling leads to the development of heterogeneous exhausted T cells. These developmental processes are orchestrated by transcription factors and chromatin remodeling molecules. Here, 7 topics will provide new insights into the development and function of cytotoxic T cells. Active discussion is encouraged.

WS02-03-O/P

The transcription factor BATF pioneers the effector differentiation of CD8⁺ T cells through direct interaction with IRF4○ Sotaro Fujisawa¹⁾, Yamato Tanabe¹⁾, Toshikatsu Tamai¹⁾, Junko Kurachi¹⁾, Miki Koura¹⁾, Yusuke Miyanari²⁾, Makoto Kurachi¹⁾¹⁾Department of Molecular genetics, Faculty of Medical Sciences, Kanazawa University, ²⁾WPI Nano Life Science Institute, Kanazawa University

WS02-04-O/P

Fate inflexibility of virtual memory CD8 T cells during chronic infection○ Yamato Sajiki¹⁾, Koichi Araki^{1,2)}¹⁾Division of Infectious Diseases, Center for Inflammation and Tolerance, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA,²⁾Department of Pediatrics, University of Cincinnati College of Medicine, Cincinnati, Ohio, USA

WS02-06-O/P

Efficient inhibition of DNAM-1 clustering via sequestering CD155 from DNAM-1-TCR microclusters by CD96 with height

○ Ei Wakamatsu, Ann Hattori, Hiroaki Machiyama, Hiroko Toyota, Masae Furuhashi, Ryuji Hashimoto, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka

Tokyo Medical Univ.

WS02-09-O/P

Dysfunctional Mitochondria Promote DNA Damage and T Cell Exhaustion in CD8⁺ T Cells○ Kung-Chi Kao^{1,2)}, Yu-Ming Chuang^{1,2)}, Yi-Ru Yu³⁾, Bugi Ratno Budiarto⁴⁾, Shih-Yu Chen⁴⁾, Ping-Chih Ho^{1,2)}¹⁾University of Lausanne, ²⁾Ludwig Institute for Cancer Research, ³⁾Pilatus Biosciences, ⁴⁾Academia Sinica

WS02-12-O/P

Vitamin C treatment enhances the immune responses of CD8⁺ T cells by upregulation of *Batf3*○ Kenta Kondo¹⁾, Mina Kumode^{1,2)}, Koji Terada¹⁾, Yasutoshi Agata¹⁾¹⁾Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, ²⁾Department of Hepatology, Shiga University of Medical Science

WS02-13-O/P

Identification of human CD8⁺ T cells recognizing viral lipopeptides○ Minoru Asa^{1,2)}, Sho Yamasaki^{1,2,3)}¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (iFReC), Osaka University, ³⁾Center for Infectious Disease Education and Research (CiDER), Osaka University

Histone deacetylase 1 controls the generation and maintenance of effector-like CD8⁺ T cells during chronic viral infection

Ramona Rica¹⁾, Monika Waldherr¹⁾, Marlene Schüle¹⁾, Emi Miyakoda¹⁾, Thomas Krausgruber²⁾, Christoph Bock^{2,3)}, Nicole Boucheron¹⁾, Wilfried Ellmeier¹⁾, ○ Shinya Sakaguchi¹⁾

¹⁾Medical University of Vienna, Center for Pathophysiology, Infectiology and Immunology, Institute of Immunology, Division of Immunobiology,

²⁾CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, ³⁾Medical University of Vienna, Center for Medical Data Science, Institute of Artificial Intelligence

WS03 In vivo model and new cancer immunotherapy

14:00 ~ 15:15 Room C

Chairpersons: Yuki Kagoya, Keiko Uda

This session aims to delve into innovative advancements in cancer immunotherapy, with a particular focus on research utilizing mouse models. By presenting both therapeutic strategies and the creation of novel in vivo systems, the session aspires to uncover methods that could improve the effectiveness of therapy evaluation.

LAG-3 blockade reactivates the CD8⁺ T cell expansion program to re-expand contracted clones in the tumor

○ Munetomo Takahashi¹⁾, Mikiya Tsunoda²⁾, Shigeyuki Shichino²⁾, Shumpei Ishikawa¹⁾, Kouji Matsushima²⁾, Satoshi Ueha²⁾

¹⁾Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, ²⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

PQDN improves CD8⁺ T cell metabolism by mitochondrial tuning resulting in improved cancer immunotherapy

○ Huimin Sun¹⁾, Yosuke Dotsu¹⁾, Daisuke Muraoka^{1,2)}, Daisuke Kato⁴⁾, Naohisa Ogo³⁾, Yudai Sonoda³⁾, Situo Deng¹⁾, Kiyoshi Yasui¹⁾, Mitsuhiro Yoneda¹⁾, Hiromu Kondo⁴⁾, Akira Asai³⁾, Hiroaki Ikeda¹⁾

¹⁾Department of Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan, ²⁾Division of Translational Oncoimmunology, Aichi Cancer Research Institute, Nagoya, Japan, ³⁾Center for Drug Discovery, Graduate School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan, ⁴⁾Department of Pharmaceutical Engineering and Drug Delivery Science, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan

Cystatin A enhances CD4⁺ T cells and M1 macrophages antitumor activity in murine models of pancreatic cancer

○ Alessandro Nasti¹⁾, Shingo Inagaki²⁾, Tuyen Thuy Bich Ho¹⁾, Akihiro Seki³⁾, Keiko Yoshida²⁾, Kosuke Satomura²⁾, Taro Yamashita^{2,3)}, Yoshio Sakai²⁾, Shuichi Kaneko^{1,2,3)}

¹⁾Information-Based Medicine Development, Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan., ²⁾System biology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, Kanazawa, Japan., ³⁾Department of Gastroenterology, Kanazawa University Hospital, Kanazawa, Japan.

Synergistic Effects of Immune Checkpoint Inhibition Therapy with Lactobacillus Metabolites

○ Takumi Iwasawa^{1,2,3)}, Suguru Yamauchi⁴⁾, Tomoaki Ito^{3,5)}, Kazunori Kato^{1,2)}

¹⁾Inst. of Life Innova. Stu., Toyo Univ., ²⁾Grad. Sch Heal. & Sports Sci., Toyo Univ., ³⁾Shizuoka Med. Res. Center for Disast., Juntendo Univ., ⁴⁾Dept. Surg., Johns Hopkins Univ., ⁵⁾Dept. Surg., Shizuoka Hospital, Juntendo Univ.

Complete humanization of MHC region in mouse

○ Teruhiko Suzuki¹⁾, Mana Yamakawa¹⁾, Saki An¹⁾, Hiroko Yanagisawa¹⁾, Yasuhiro Kazuki^{2,3,4,5)}, Mitsuo Oshimura²⁾, Eiji Mizutani⁶⁾, Takahiko Hara^{1,7,8)}

¹⁾Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., ²⁾CERC, Tottori Univ., ³⁾Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ.,

⁴⁾Chr. Eng. Group, ExCELLS., ⁵⁾Sch. of Life Sci., Facul. of Med., Tottori Univ., ⁶⁾Institute of Medicine, University of Tsukuba, ⁷⁾Grad. Sch., Tokyo Med. Dent. Univ., ⁸⁾Grad. Sch., Tokyo Metropol. Univ.

Anti-tumor effect of a human SIRP α antibody targeting human macrophages in a humanized mouse model

○ Tania Afroj¹⁾, Satomi Komori¹⁾, Ikumi Katano²⁾, Takeshi Takahashi²⁾, Takenori Kotani¹⁾, Yoji Murata¹⁾, Takashi Matozaki¹⁾, Yasuyuki Saito¹⁾

¹⁾Kobe University Graduate School of Medicine, ²⁾Central Institute for Experimental Animals, Kawasaki, Japan

WS04 Innate Immunity 1: Innate inflammation and disease

14:00 ~ 15:15 Room D

Chairpersons: Shinichiro Sawa, Minako Ito

Recent studies of innate immunity revealed that a variety of pattern recognition receptors sense pathogen associated molecular patterns (PAMPs) such as LPS or viral RNA followed by induction of innate immune response against bacterial and viral infection. Also immune response against danger-associated molecular patterns (DAMPs) are involved in induction of acute or chronic inflammation. Such inflammation is associated with homeostasis or development of various diseases including exacerbated viral infection and neuronal disorders. In this workshop, we will focus on inflammation and disease related to innate immunity and look forward to active participation and discussion.

Nucleolar dysfunction leads to the XPG-dependent generation of RNA-DNA hybrids, which prime the innate immune response underlying ribosomal diseases via the cGAS-STING pathway

○ Ken Takashima, Hiroyuki Oshiumi

Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Science, Kumamoto University

The role of small neutral amino acid transport in macrophage metabolic reprogramming during inflammation

○ Shota Yasukura¹⁾, Masanori Yoshinaga¹⁾, Michael C Bassik²⁾, Osamu Takeuchi¹⁾

¹⁾Department of Medical Chemistry Graduate School of Medicine, Kyoto University, ²⁾Department of Genetics, Bassik Lab, Stanford University School of Medicine, Stanford CA, USA

Low-level Endotoxin Preconditioning after Burn Injury Significantly Improves Survival Rate in Mouse Sepsis Model

○ Bradley M. Kearney^{1,2)}, Hiroyuki Nakashima¹⁾, Masahiro Nakashima¹⁾, Hiromi Miyazaki¹⁾, Kohei Yamada¹⁾, Kazuma Mori¹⁾, Azusa Kato¹⁾, Takeshi Ono¹⁾, Hiroyasu Goto¹⁾, Ryohei Suematsu¹⁾, Manabu Kinoshita¹⁾

¹⁾National Defense Medical College, ²⁾US Army Japan Engineer and Scientist Exchange Program

K3-SPG-mediated long-term protection against viral infection

○ Asuka Joy Tobuse¹⁾, Kouji Kobiyama^{1,2)}, Jun Tsuchida¹⁾, Teppei Hara¹⁾, Yaeko Nakajima-Takagi⁴⁾, Motohiko Oshima⁴⁾, Tomoya Hayashi¹⁾, Burcu Temizoz¹⁾, Hideo Negishi¹⁾, Yasuhiro Yasutomi³⁾, Atsushi Iwama⁴⁾, Ken J Ishii^{1,2)}

¹⁾Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo,

²⁾International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo, ³⁾Laboratory of Immunoregulation and Vaccine Research, Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition, ⁴⁾Division of Stem Cell and Molecular Medicine, Center for Stem Cell Biology and Regenerative Medicine, The Institute of Medical Science, University of Tokyo, Tokyo, Japan

Structural insights into the IgM-CD5L complex and its impact on resolution of inflammation through DAMPs recognition

○ Satoko Arai, Toru Miyazaki

The Institute for AIM Medicine

Tissue-specialized alveolar fibroblasts adopt multiple molecular states to regulate innate immunity after lung injury

○ Tatsuya Tsukui, Paul J Wolters, Dean Sheppard

Division of Pulmonary, Critical Care, Allergy and Sleep Medicine, Department of Medicine, University of California, San Francisco

Myd88/Trif signaling is necessary for neurological recovery after stroke

○ Ryuki Koyama, Takashi Shichita, Jun Tsuyama

Tokyo Medical and Dental University Medical Research Institute Department of Neuroinflammation and Repair

Anti-amyloid-beta antibody restores the post-stroke neural reparative function impaired by amyloid-beta pathology

○ Kento Otani^{1,2)}, Eri Tanaka^{1,2)}, Koji Hase²⁾, Takashi Saito³⁾, Takashi Shichita¹⁾

¹⁾Department of Neuroinflammation and Repair, Medical Research Institute, Tokyo Medical and Dental University, ²⁾Department of Biochemistry, Graduate School of Pharmaceutical Sciences, Keio University, ³⁾Department of Neurocognitive Science, Institute of Brain Science, Graduate School of Medical Sciences, Nagoya City University

WS05 Allergy

14:00 ~ 15:15 Room E

Chairpersons: Saeko Nakajima, Kiyoshi Hirahara

Allergy is one of the research fields that has shown remarkable progress in both basic studies and clinical applications recent years. The interaction between so-called "tissue-resident" cell populations such as ILC2, mast cells, and tissue-resident memory T cells with epithelial cells is crucial in shaping the pathologies of allergic diseases. The interaction between the tissue-resident cell populations and neurons are also involved in the pathogenesis of various allergic conditions, including "pathological itching." The difference between tissue repair and fibrosis is another topic of interest in allergy research. This session will be helpful in extending our knowledge and understanding of cellular and molecular mechanisms for shaping the pathology of allergic diseases. We would like to encourage all participants to be in active discussion.

Role of Sox4 in IL-10-producing lung regulatory T cells

○ Yuki Hayashi¹⁾, Akira Suto¹⁾, Kensuke Suga^{1,2)}, Takahiro Kageyama¹⁾, Takashi Ito¹⁾, Kazuyuki Meguro¹⁾, Shigeru Tanaka¹⁾, Taro Iwamoto¹⁾, Arifumi Iwata¹⁾, Shunsuke Furuta¹⁾, Kotaro Suzuki¹⁾, Hiroshi Nakajima¹⁾

¹⁾Department of Allergy and Clinical Immunology, Chiba University, ²⁾Cedars-Sinai Medical Center

Crosstalk of innate and adaptive immune responses in laundry detergents-induced antigen-specific eosinophilic airway inflammation

○ Naoko Nagano¹⁾, Kyoko Saito¹⁾, Keisuke Orimo¹⁾, Masato Tamari¹⁾, Kenichiro Motomura¹⁾, Susumu Nakae²⁾, Hideaki Morita^{1,3)}, Kenji Matsumoto¹⁾

¹⁾Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, ²⁾Graduate School of Integrated Science for Life, Hiroshima University, ³⁾Allergy Center, National Center for Child Health and Development

Serotonin-producing mast cells suppress ILC2 activation in asthmatic inflammation

○ Naoki Okada^{1,2)}, Koichiro Asano²⁾, Kazuyo Moro^{1,3,4)}

¹⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ²⁾Division of Pulmonary Medicine, Department of Medicine, Tokai University School of Medicine, ³⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ⁴⁾Laboratory for Innate Immune Systems, iFReC, Osaka University

Efficacy of anti-IL-4Ra in modulating cellular responses in asthma of various endotypes

○ Hinami Kawahata¹⁾, Takuya Yashiro¹⁾, Yasutaka Motomura¹⁾, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, iFReC, Osaka University

TRPV1-positive vagal sensory neurons suppress eosinophilic lung inflammation through the neuron-intrinsic JAK1-CGRP beta axis

○ Masato Tamari¹⁾, Kenichiro Motomura¹⁾, Hideaki Morita^{1,2)}, Kenji Matsumoto¹⁾

¹⁾Department of Allergy and Clinical Immunology, National Research Institute for Child Health and Development, ²⁾Allergy Center, National Center for Child Health and Development

Pathogenic memory T_H2 cells exacerbate esophageal fibrosis of eosinophilic esophagitis by amphiregulin production

○ Chiaki Iwamura, Tatsuya Kaneko, Kiyoshi Hirahara

Dept of Immunology, Graduate School of Medicine, Chiba University

Antigen-presenting cell function of mucosal mast cells is involved in the development of intestinal mast cell hyperplasia in IgE-mediated food allergy

○ Nobuhiro Nakano¹⁾, Kenji Oishi²⁾, Toshiyuki Yoneyama²⁾, Eisuke Inage²⁾, Takahiro Kudo²⁾, Yoshikazu Ohtsuka²⁾, Jiro Kitaura¹⁾, Toshiaki Shimizu^{1,2)}, Ko Okumura¹⁾

¹⁾Atopy (Allergy) Research Center, Juntendo Univ., ²⁾Department of Pediatrics and Adolescent Medicine, Juntendo Univ.

IL-33 primes mast cells to respond to Piezo1 stimulation, leading to degranulation

○ Yoshiaki Kobayashi^{1,2)}, Kent Sakai³⁾, Daiki Nakagomi²⁾, Atsuhito Nakao^{1,3)}

¹⁾Department of Immunology, University of Yamanashi, ²⁾Department of Rheumatology, University of Yamanashi, ³⁾Yamanashi GLIA Center, University of Yamanashi

WS06 Arthritis and Fibrosis

14:00 ~ 15:15 Room F

Chairpersons: Kimito Kawahata, Haruka Tsuchiya

In this session, studies related to arthritis and fibrosis will be presented. These will reveal the specific cell populations and molecular mechanisms that shape the immunopathogenesis using human specimens and animal models. We hope that all participants have an active discussion in both oral and poster presentation and that this session will provide insights into understanding disease mechanisms.

Distinct proliferative and spatial properties of peripheral helper T cells in rheumatoid arthritis synovium

○ Yuki Masuo¹⁾, Akinori Murakami^{1,2)}, Rinko Akamine¹⁾, Osamu Iri¹⁾, Koichi Murata^{2,3)}, Takayuki Fujii^{2,3)}, Yasuhiro Murakawa^{4,5)}, Chikashi Terao⁶⁾, Yukinori Okada^{7,8,9)}, Motomu Hashimoto¹⁰⁾, Hideki Ueno^{1,5)}, Hiroyuki Yoshitomi^{1,5)}

¹⁾Department of Immunology, Graduate School of Medicine, Kyoto University, ²⁾Department of Orthopaedic Surgery, Graduate School of Medicine, Kyoto University, ³⁾Advanced Medicine for Rheumatic Disease, Graduate School of Medicine, Kyoto University, ⁴⁾RIKEN-IFOM Joint Laboratory for Cancer Genomics, RIKEN Center for Integrative Medical Sciences, ⁵⁾Institute for the Advanced Study of Human Biology, Kyoto University, ⁶⁾Laboratory for Statistical and Translational Genetics, RIKEN Center for Integrative Medical Sciences, ⁷⁾Department of Genome Informatics, Graduate School of Medicine, the University of Tokyo, ⁸⁾Department of Statistical Genetics, Graduate School of Medicine, Osaka University, ⁹⁾Laboratory for Systems Genetics, RIKEN Center for Integrative Medical Sciences, ¹⁰⁾Department of Clinical Immunology, Graduate School of Medicine, Osaka Metropolitan University

Human synovial Tph cells are involved in synovial inflammation in rheumatoid arthritis via a novel inflammatory humoral factor

○ Akinori Murakami^{1,2,3)}, Rinko Akamine^{2,3)}, Yuki Masuo^{2,3)}, Osamu Iri²⁾, Yasuhiro Murakawa^{4,5)}, Chikashi Terao⁶⁾, Yukinori Okada^{7,8,9)}, Motomu Hashimoto¹⁰⁾, Shuichi Matsuda¹⁾, Hideki Ueno^{2,3,5)}, Hiroyuki Yoshitomi^{2,3,5)}

¹⁾Department of Orthopaedic Surgery, Graduate School of Medicine, Kyoto University, Japan, ²⁾Department of Immunology, Graduate School of Medicine, Kyoto University, Japan, ³⁾Kyoto University Immunomonitoring Center, Kyoto University, Japan, ⁴⁾RIKEN-IFOM Joint Laboratory for Cancer Genomics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁵⁾Institute for the Advanced Study of Human Biology, Kyoto University, Japan, ⁶⁾Laboratory for Statistical and Translational Genetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁷⁾Department of Genome Informatics, Graduate School of Medicine, the University of Tokyo, Japan, ⁸⁾Department of Statistical Genetics, Graduate School of Medicine, Osaka University, Japan, ⁹⁾Laboratory for Systems Genetics, RIKEN Center for Integrative Medical Sciences, Japan, ¹⁰⁾Department of Clinical Immunology, Graduate School of Medicine, Osaka Metropolitan University, Japan

Expression of CD103 and CD200 define functionally distinct arthritogenic Th17 cells

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

¹⁾Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, ²⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University

GM-CSF-dependent Macrophage Subpopulation Derived from Ly6C^{hi} Monocytes Causes Development and Enhancement of Joint Inflammation in Autoimmune Arthritis

○ Hiroki Mukoyama^{1,2)}, Yusuke Takeuchi^{1,2)}, Daiya Ohara¹⁾, Yoonha Lee¹⁾, Hitomi Watanabe¹⁾, Gen Kondoh¹⁾, Akio Morinobu²⁾, Keiji Hirota¹⁾

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

The critical involvement of RasGRP4 in synovial resident cells in inflammatory arthritis

○ Rihan Da, Tetsuya Saito, Natsuka Umezawa, Hiroyuki Baba, Wen Shi Lee, Shinsuke Yasuda

Department of Rheumatology, Tokyo Medical and Dental University

WS06-06-O/P

Identification of the oncostatin M-driven macrophage-fibroblast interaction as a drug target in autoimmune arthritis

○ Rui Ling¹, Nam Cong Nhat Huynh¹, Masatsugu Komagamine¹, Tianshu Shi¹, Masayuki Tsukasaki², Noriko Komatsu^{1,3}, Hiroshi Takayanagi¹

¹Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan., ²Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan., ³Department of Immune Regulation, Medical Research Institute, Tokyo Medical and Dental University (TMDU), Tokyo, Japan.

WS06-15-O/P

Attenuated Lung Fibrosis in Myeloid-Specific Ezh2 Deficient Mice: Insights from a Systemic Sclerosis Model

○ Sita Virakul¹, Benjawan Saechue², Rajit Chompoowong³, Patipark Kueanjinda⁸, Haruhiko Koseki⁴, Nattiya Hirankarn⁵, Wijit Banlunara⁶, Benchaphorn Limcharoen⁷, Tanapat Palaga¹

¹Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand, ²Faculty of Veterinary Science, Mahasarakham University, Mahasarakham, Thailand, ³Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand, ⁴Center for Integrative Medical Sciences, RIKEN, Japan, ⁵Center of Excellence in Immunology and Immune mediated Disease, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁶Department of Pathology, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, Thailand, ⁷Department of Anatomy, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, Thailand, ⁸Department of Pathology, University of Massachusetts Medical School, MA, USA

WS06-18-O/P

rW27 alleviates *E. faecalis*-promoted, CDAHFD-induced NASH disease in mice by attenuating liver fibrosis

○ Chen Xiu Jie^{1,2,3}

¹Graduate School of Frontier Sciences, The University of Tokyo, ²Institute for Quantitative Biosciences, The University of Tokyo, ³Laboratory of Immunology and Infection Control, The University of Tokyo

WS07 Macrophage 1

14:00 ~ 15:15 Room G

Chairpersons: Masako Kohyama, Eiji Umemoto

Macrophages were originally identified as cells that attack and eliminate invaded pathogens. Although inflammation is important for host defense, excessive inflammation sometimes causes serious consequences. Macrophage express surface receptors and sensors and have a unique machinery known as the inflammasome, which regulates various stimuli for inflammation. In this session, we would like to discuss the mechanisms of inflammasome activation and regulation of fibrosis development.

WS07-01-O/P

Withdrawn

WS07-04-O/P

The differential pyrin inflammasome responses between resident peritoneal and bone marrow-derived macrophages

○ Izumi Sasaki¹, Shiori Kaji², Yuri Fukuda-Ohta¹, Daisuke Okuzaki³, Takashi Kato¹, Tsuneyasu Kaisho¹

¹Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, ²Second Department of Internal Medicine, Wakayama Medical University, ³WPI-Immunology Frontier Research Center, Osaka University

WS07-05-O/P

Clathrin heavy chain: a regulatory key for NLRP3 inflammasome activation via endocytosis in macrophages

○ Hung Hiep Huynh¹, Eri Koike¹, Masumi Shimizu¹, Akihiko Yoshimura², Rimpei Morita¹

¹Department of Microbiology and Immunology, Nippon Medical School, ²Graduate School of Medicine, Keio University

WS07-08-O/P

TAK1-binding protein 2 (TAB2) suppresses aberrant activation of NLRP3 inflammasome mediated by autocrine TNF-α

○ Giichi Takaesu^{1,2,3}, Tanveer Ali², Goro Matsuzaki^{1,2,3}

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

WS07-10-O/P

A critical role of protein cross-linking enzyme transglutaminase 2 in M2 macrophage polarization and fibrosis

○ Hideki Tatsukawa, Kiyotaka Hitomi

Graduate School of Pharmaceutical Sciences, Nagoya University

WS07-11-O/P

Autologous Macrophages induced by IL-34-based condition Suppress Hepatic Fibrosis with CD8+ T Cell Inhibition

○ Yuichi Igarashi, Haruka Wada, Ken-ichiro Seino

Division of Immunobiology, Institute for Genetic Medicine, Hokkaido University

WS07-12-O/P

Dual-wield pathway of macrophages drives myofibroblast transition via dysregulation of iron metabolism○ Hiroshi Nabeshima^{1,2}, Kiyoharu Fukushima^{2,3,4}, Shizuo Akira^{2,3,5}¹Host Defense Laboratory, Immunology Unit, Osaka Research Center for Drug Discovery, Otsuka Pharmaceutical Co., Ltd., ²Laboratory of Host Defense, World Premier Institute Immunology Frontier Research Center (WPI-IFReC), Osaka University, ³Department of Host Defense, Research Institute for Microbial Diseases (RIMD), Osaka University, ⁴Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine, ⁵Center for Advanced Modalities and DDS (CAMA-D), Osaka University**WS08 Infection immunity 1**

14:00 ~ 15:15 Room H

Chairpersons: Kosuke Miyauchi, Saya Moriyama

Understanding the interaction between virus-host immune responses and developing vaccines and therapeutics are essential for protection against viral infection. This workshop will focus on SARS-CoV-2 infections and dengue virus interaction with the host immune system. Active participation and constructive discussions would be highly appreciated.

WS08-01-O/P

Regnase-4 protects mice against HSV-1 infection by reinforcing type I interferon production○ Keiko Yasuda^{1,2}, Junichi Aoki¹, Kotaro Tanaka¹, Daiya Ohara³, Keiji Hirota³, Osamu Takeuchi¹¹Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²Department of Immunology, Nagoya City University Graduate School of Medical Sciences, ³Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University

WS08-02-O/P

Transcription factor FOXO1 critically regulates viral replication and inflammatory reaction during SARS-CoV-2 infection both in *in vitro* and *in vivo* models○ Ryutaro Furukawa¹, Noriko Ougi-Sageshima¹, Masahiro Kitabatake¹, Atsushi Hara¹, Shigeyuki Shichino², Satoshi Ueha², Kouji Matsushima², Toshihiro Ito¹¹Department of Immunology, Nara Medical University, ²Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS08-03-O/P

Immune profiling of less reactogenic mRNA vaccine revealed the pathways associated with adverse reaction○ Tomohiro Takano¹, Keigo Kumagai², Hitoshi Iuchi³, Aya Mizuike^{2,4}, Tomoharu Mizukami², Eita Sasaki¹, Koji Kobiyama⁵, Ken Ishii⁵, Michiaki Hamada³, Masayoshi Fukasawa², Takayuki Matsumura¹, Yoshimasa Takahashi¹¹Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²Department of Biochemistry and Cell Biology, National Institute of Infectious Diseases, ³Faculty of Science and Engineering, Waseda University, ⁴Center for Quality Management Systems, National Institute of Infectious Diseases, ⁵The Institute of Medical Science, The University of Tokyo

WS08-07-O/P

History of infection and vaccination affects the quality of T cell responses in humans○ Dongyun Lu¹, Celine Chua¹, Xinxin Xue¹, Naila Shinwari¹, Isao Ito², Takao Hashiguchi³, Ryutaro Kotaki⁴, Yoshimasa Takahashi⁴, Hideki Ueno¹¹Department of Immunology, Graduate School of Medicine, Kyoto University, ²Department of Respiratory Medicine, Kyoto University Hospital, ³Institute for Frontier Life and Medical Sciences, Kyoto University, ⁴Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases

Differential potency of memory T cells and memory B cells in older adults following COVID-19 mRNA vaccination

○ Kohei Kometani¹⁾, Takaaki Yorimitsu^{1,2)}, Norihide Jo^{1,3)}, Yoko Hamazaki^{1,4,5)}

¹⁾Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University, ²⁾Department of Human Health Sciences, Graduate School of Medicine, Kyoto University, ³⁾Alliance Laboratory for Advanced Medical Research, Graduate School of Medicine, Kyoto University, ⁴⁾Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University, ⁵⁾Kyoto University Immunomonitoring Center (KIC)

HLA-C-restricted nucleocapsid-specific CTLs show potent antiviral activity and long-lived memory phenotype

○ Chihiro Motozono¹⁾, Mako Toyoda¹⁾, Hiroshi Hamana²⁾, Hiroyuki Kishi²⁾, Takamasa Ueno¹⁾

¹⁾Kumamoto University, Joint Research Center for Human Retrovirus infection, ²⁾University of Toyama, Department of Immunology, Faculty of Medicine, Academic Assembly

Predictive Biomarkers of COVID-19 Prognosis Identified in Bangladesh Patients and Validated in Japanese Cohorts

○ Kazuko Uno¹⁾, Abu Hasan²⁾, Rummana Rahim²⁾, Toshio Tanaka³⁾, Mizanur Rahman²⁾, Kazuyuki Yoshizaki⁴⁾

¹⁾IFN & Host-defense Research Laboratory, Louis Pasteur Center for Medical Research, ²⁾Evercare Hospital Dhaka, ³⁾Kinki Central Hospital, ⁴⁾Department of Organic Fine Chemicals, Institute of Scientific and Industry Research, Osaka University

T cell repertoire and transcriptome profiling of CD8⁺ T cells in the peripheral blood of dengue virus infection during acute, early, and late recovery phases

Eleonor F Avenido-Cervantes^{1,2)}, Akiko Baba¹⁾, Jiun-Yu Jian³⁾, Archival M Cervantes²⁾, Blanca R Jarilla-Nagataki²⁾, Mario Antonio L Jiz II²⁾, Arthur Dessi E Roman⁴⁾, Yu-Chen James Liu⁵⁾, Daisuke Okuzaki⁵⁾, Shusaku Mizukami³⁾, Katsuyuki Yui³⁾, ○ Kenji Hirayama¹⁾

¹⁾School of Tropical medicine and Global Health and NEKKEN, Nagasaki University, ²⁾Immunology Department, Research Institute for Tropical Medicine, Philippines, ³⁾Department of Immune regulation, Institute of Tropical Medicine (NEKKEN), Nagasaki University, ⁴⁾Clinical Research Division, Research Institute for Tropical Medicine, Philippines, ⁵⁾Human Immunology (Single Cell Genomics), Immunology Frontier Research Center: IFReC, Osaka University

WS09 Mucosal-Skin Immunity 2

15:25 ~ 16:40 Room A

Chairpersons: Tetsuro Kobayashi, Hiroko Nagao-Kitamoto

This workshop will explore the intricate dynamics of mucosal-skin immunity, focusing on the crosstalk between immune and non-immune cells and its crucial role in maintaining homeostasis at barrier sites. We will delve into the interactions between tissue-resident immune cells, the microbiota, and environmental factors, all of which are essential for preserving the delicate balance within these environments. Discussions will also cover how dysbiosis-disruptions in the microbial community-alongside environmental influences, can lead to pathophysiological conditions. By deepening our understanding of these processes, we aim to gain further insights into the mechanisms that regulate immunity and contribute to diseases linked to barrier dysfunction.

Sulfated glycans in intestinal homeostasis and disease

○ Shota Okamoto¹⁾, Ryu Okumura^{1,2)}, Kiyoshi Takeda^{1,2)}

¹⁾Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²⁾WPI Immunology Frontier Research Center, Osaka University

Novel Metabolites Altered by Appendectomy Lead to Tuft Cell Hyperplasia and Play an Important Role in the Amelioration of Ulcerative Colitis

○ Shunya Hatai^{1,2)}, Yasutaka Motomura^{2,3,4)}, Koji Hosomi⁵⁾, Taiki Sakaguchi⁶⁾, Ryu Okumura⁶⁾, Takayuki Ogino⁷⁾, Daisuke Motooka⁸⁾, Eiichi Morii⁹⁾, Shota Nakamura⁸⁾, Kiyoshi Takeda⁶⁾, Jun Kunisawa⁵⁾, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ²⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ³⁾Laboratory for Innate Immune Systems, IFReC, Osaka University, ⁴⁾Division of Immunology and Allergy, Research Institute for Biomedical Science, Tokyo University of Science, ⁵⁾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), ⁶⁾Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ⁷⁾Department of Gastroenterological Surgery, Graduate School of Medicine, Osaka University, ⁸⁾Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, ⁹⁾Department of Pathology, Graduate School of Medicine, Osaka University

Crucial Role of Pancreatic GP2 in Regulating Bacterial Translocation and Organ Failure

○ Yosuke Kurashima^{1,2,3}, Zhongwei Zhang¹, Yun-Gi Kim⁴, Nozomu Obana⁵, Shinji Fukuda^{5,6}, Ryutarou Fukui⁷, Kensuke Miyake⁷, Koji Hase⁸, Hiroshi Ohno⁹, Satoshi Uematsu¹⁰, Peter B Ernst³, Hiroshi Kiyono^{1,2,3}

¹Department of Innovative Medicine, Graduate School of Medicine, Institute for Advanced Academic Research/ Research Institute of Disaster Medicine, Chiba University, Chiba, Japan, ²Chiba University Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Department of Human Mucosal Vaccinology, Chiba University Hospital, Chiba, Japan., ³Division of Comparative Pathology and Medicine, Chiba University-University of California San Diego Center for Mucosal Immunology, Allergy and Vaccine, School of Medicine, San Diego, CA, USA., ⁴Department of Microbiology, School of Pharmacy, Kitasato University, Tokyo, Japan, ⁵Transborder Medical Research Center, Institute of Medicine, University of Tsukuba, Ibaraki, Japan, ⁶Institute for Advanced Biosciences, Keio University, Yamagata, Japan, ⁷Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ⁸Division of Biochemistry, Department of Pharmaceutical Sciences, Faculty of Pharmacy, and Graduate School of Pharmaceutical Sciences, Keio University, Minato-ku, Tokyo, Japan., ⁹Laboratory for Microbiome Sciences and Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan., ¹⁰Department of Immunology and Genomics, Graduate School of Medicine, Osaka Metropolitan University, Osaka, Japan

Loss of claudin-1 in keratinocytes induces itch transmitted by multiple types of sensory nerves

○ Susumu Toshima^{1,2}, Sonoko Takahashi¹, Ayako Matsuyama¹, Akiharu Kubo^{2,3}, Masayuki Amagai^{2,4}, Takaharu Okada¹

¹Laboratory for Tissue Dynamics, Center for Integrative Medical Science, RIKEN, ²Department of Dermatology, Keio University School of Medicine, ³Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, ⁴Laboratory for Skin Homeostasis, Center for Integrative Medical Science, RIKEN

Epithelial barrier dysfunction by intestine-specific AP-1B deficiency causes renal IgA deposition

○ Yusuke Kinashi¹, Keisuke Tanaka¹, Shunsuke Kimura¹, Daisuke Takahashi¹, Hiroshi Ohno², Koji Hase¹

¹Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University, ²Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences

Reactive persulfide controls intestinal inflammation by suppressing CD4⁺ T lymphocyte proliferation

○ Shunichi Tayama¹, Yuya Kitamura¹, Kyoga Hiraide², Hibiki Suzuki, Jing Li¹, Ziying Yang¹, Kosuke Sato¹, Akihisa Kawajiri³, Yuko Okuyama¹, Takeshi Kawabe¹, Takaaki Akaike⁴, Naoto Ishii¹

¹Tohoku University Graduate School of Medicine, Department of Microbiology and Immunology, ²Tohoku University Graduate School of Medicine, Department of AI and Innovative Medicine, ³Sendai City Hospital, ⁴Tohoku University Graduate School of Medicine, Department of Environmental Medicine and Molecular Toxicology

M cells in the tear duct-associated lymphoid tissue contribute to the development of allergic conjunctivitis by facilitating germinal-center reaction

○ Yuki Oya¹, Shunsuke Kimura^{1,2}, Koji Hase^{1,3,4}

¹Keio Univ., ²Precursory Research for Embryonic Science and Technology (PRESTO), ³The Institute of Medical Science, ⁴Fukushima Univ.

Identification of staphylococcus aureus genes affecting response to bleach bath therapy in patients with atopic dermatitis

○ Hiroshi Kawasaki^{1,2}, Ayano Fukushima-Nomura², Yoshihiro Ito², Eiryō Kawakami¹, Masayuki Amagai²

¹RIKEN, ²Keio Univ.

Tissue inflammation is regulated by the interplay between inflammatory T helper cells and regulatory T cells. Various intrinsic factors within T cells, including nuclear receptors, transcription factors, and cytokine signaling, in combination with external environmental cues, govern the differentiation and effector functions of these cells, thereby determining the balance between tissue protection and destruction. For this session, we have selected seven outstanding abstracts for presentation. Each speaker will give a 7-minute talk, followed by a 3-minute discussion. We encourage active participation and discussion from the audience.

WS10-02-O/P

SH-2251 functions as an antagonist of retinoic acid receptor alpha, suppressing IL-5-producing Th2 cell differentiation and function and chronic Th2-type airway inflammation○ Shunsuke Nomura¹⁾, Makoto Kuwahara²⁾, Junpei Suzuki²⁾, Masakatsu Yamashita^{1,2)}¹⁾Department of Infection and Host Defense, Graduate School of Medicine, Ehime University, ²⁾Department of immunology, Graduate School of Medicine, Ehime University

WS10-03-O/P

Agonization of *Nr4a1* Inhibits Th17 Differentiation and Mitigates Experimental Arthritis in SKG mice○ Yoichi Nakayama¹⁾, Ryosuke Hiwa¹⁾, Ayaka Okubo¹⁾, Mikihiro Shoji¹⁾, Mirei Shirakashi¹⁾, Hideaki Tsuji¹⁾, Koji Kitagori²⁾, Ran Nakashima¹⁾, Shuji Akizuki¹⁾, Hajime Yoshifuji¹⁾, Akio Morinobu¹⁾¹⁾Department of Rheumatology and Clinical Immunology, Kyoto University Graduate School of Medicine, ²⁾Occupational Welfare Division, Agency for Health, Safety and Environment, Kyoto University

WS10-04-O/P

Dual Function of α -Synuclein as Antigen and Adjuvant Orchestrate Th17 Responses in Parkinson's Disease○ Emi Furusawa Nishii¹⁾, Asako Chiba¹⁾, Ayami Okuzumi²⁾, Shinichi Ueno²⁾, Yasunobu Hoshino²⁾, Taku Hatano²⁾, Nobutaka Hattori^{2,3)}, Sachiko Miyake¹⁾¹⁾Juntendo University Faculty of Medicine Department of Immunology, ²⁾Juntendo University Faculty of Medicine Department of Neurology, ³⁾Neurodegenerative Disorders Collaborative Laboratory, RIKEN Center for Brain Science

WS10-07-O/P

The T cell receptor specificity contributes to Th1-type effector regulatory T cell differentiation

○ Shun Yuasa, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS10-11-O/P

Type I interferon drives T cell cytotoxicity by upregulation of interferon regulatory factor 7 in autoimmune kidney diseases○ Nariaki Asada, Huiying Wang, Jonas Engesser, Anett Peters, Anna Kaffke, Hans-Joachim Paust, Ulf Panzer
University Medical Center Hamburg-Eppendorf

WS10-13-O/P

Functional Dynamics of Children's T follicular helper Cells in the context of Cryptosporidiosis○ Dana Marie Van Fossen¹⁾, Zannatun Noor²⁾, Lisa Wagar³⁾, Rashidul Haque²⁾, Carol A Gilchrist¹⁾, William A Petri¹⁾¹⁾University of Virginia, ²⁾International Centre for Diarrhoeal Disease Research, Bangladesh (Icddr,b), ³⁾University of California, Irvine

WS10-14-O/P

Analysis of the formation mechanism of ATL-specific *CCR4* super-enhancer○ Shengyi Liu¹⁾, Hiroaki Hiramatsu¹⁾, Takashi Ishida¹⁾, Takuma Kato¹⁾, Hiroyoshi Nishikawa^{1,2)}¹⁾Nagoya University Graduate School of Medicine, ²⁾Exploratory Oncology Research and Clinical Trial Center, National Cancer Center

This session aims to investigate the complex interactions within the tumor microenvironment and peripheral blood, emphasizing the identification of promising biomarkers and cellular targets. Through exploring these factors, the session seeks to inspire new therapeutic approaches and enhance predictive capabilities in the treatment of cancer.

WS11-01-O/P

Sympathetic Nerve Ablation Impact on Angiogenesis and Antitumor Immunity in Hepatocellular Carcinoma○ Chen Sun¹⁾, Yuqing Shen¹⁾, Fuhua Wang¹⁾, Tian Lu¹⁾, Jianqiong Zhang^{1,2)}

¹⁾Department of Microbiology and Immunology, Medical School, Southeast University, Jiangsu Province, China, ²⁾Nurturing Center of Jiangsu Province for State Laboratory of AI Imaging & Interventional Radiology (Southeast University), Zhongda Hospital, Southeast University, Nanjing, China

WS11-02-O/P

Single cell immunoprofiling of tumor infiltrating T cells in renal cell carcinoma○ Taku Kouro^{1,2)}, Mitsuru Komahashi^{1,3)}, Shun Horaguchi^{1,3)}, Kayoko Tsuji¹⁾, Rika Kasajima⁴⁾, Tetsuro Sasada^{1,2)}

¹⁾Div. Cancer Immunotherapy, Kanagawa Cancer Center Research Institute, ²⁾Cancer Vaccine and Immunotherapy Center, Kanagawa Cancer Center, ³⁾Department of Pediatric Surgery, Nihon University School of Medicine, ⁴⁾Molecular Pathology and Genetics Division, Kanagawa Cancer Center Research Institute

WS11-03-O/P

Elucidating the Immune Microenvironment of Multiple Myeloma Through Advanced Multi-Omics Analysis○ Shangru Jia¹⁾, Alok Sharma^{2,3,4)}, Artem Lysenko^{2,3)}, Keith Boroevich³⁾, Tatsuhiko Tsunoda^{1,2,3)}

¹⁾Tsunoda Lab, Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Japan, ²⁾Laboratory for Medical Science Mathematics, Department of Biological Sciences, School of Science, The University of Tokyo, Japan, ³⁾Laboratory for Medical Science Mathematics, RIKEN Center for Integrative Medical Sciences, Japan, ⁴⁾Institute for Integrated and Intelligent Systems, Griffith University, Nathan, Brisbane, QLD4111, Australia

WS11-05-O/P

ADAM9 drives immune suppression in the lung cancer microenvironment○ Yuh Pyng Sher¹⁾, Jing Pei Liu¹⁾, Shih Jen Liu²⁾

¹⁾China Medical University, ²⁾National Health Research Institutes

WS11-07-O/P

Combination of plasma MMPs and PD-1-binding soluble PD-L1 as a non-invasive tool to predict recurrence in gastric cancer and the efficacy of immune checkpoint inhibitors in non-small cell lung cancer○ Fumihiko Ando^{1,2)}, Takeru Kashiwada³⁾, Shoko Kuroda¹⁾, Ryotaro Takano^{1,2)}, Yoshishige Miyabe^{1,4)}, Tomoko Asatsuma-Okumura¹⁾, Masahiro Seike³⁾, Yoshiko Iwai¹⁾

¹⁾Department of Cell Biology, Institute of Advanced Medical Sciences, Nippon Medical School, ²⁾Department of Gastroenterological Surgery, Nippon Medical School, ³⁾Department of Pulmonary Medicine and Oncology, Nippon Medical School, ⁴⁾Department of Immunology and Parasitology, St. Marianna University School of Medicine

WS11-12-O/P

Membrane-based RNA sequencing to analyze the interaction between cancer cells and immune cells

○ Tadashi Imafuku, Sadahiro Iwabuchi, Shinichi Hashimoto

Wakayama Medical University

WS11-14-O/P

Genetically encoded fluorescent lactate biosensors for investigating tumor-immune microenvironment○ Yusuke Nasu^{1,2)}, Yuki Kamijo¹⁾

¹⁾Department of Chemistry, School of Science, The University of Tokyo, ²⁾Japan Science and Technology Agency

The discovery and investigation of Innate Lymphoid Cells (ILCs) over the past 15 years has changed our perception of immune regulation and how the immune system contributes to the maintenance of tissue homeostasis. In this session, we have selected 8 outstanding talks related to Innate immune cells including NK cells, ILCs and NKT cells and look forward to active participation and discussion.

WS12-03-O/P

CD36 is an inhibitory CpG ODN/CXCL14 receptor that limits the tumor-suppressive activity○ Kosuke Tanegashima¹⁾, Manaka Hasebe^{1,2)}, Risa Saito^{1,3)}, Riku Takahashi^{1,3)}, Takahiko Hara^{1,2,3)}¹⁾Stem cell project, Tokyo Metropolitan Institute of Medical Science, ²⁾Grad. Sch. of Tokyo Metropol. Univ., ³⁾Grad. Sch. of Tokyo Medical and Dental Univ.

WS12-05-O/P

Characterization of anti-asialo-GM1 monoclonal antibodies○ Ka He¹⁾, Tatsuji Kimura²⁾, Kazuyoshi Takeda³⁾, Yoshihiro Hayakawa¹⁾¹⁾Institute of Natural Medicine, University of Toyama, ²⁾Diagnostic Division, Yamasa Corporation, ³⁾Laboratory of Cell Biology, Graduate School of Medicine, Juntendo University

WS12-08-O/P

PD-L1 expressing CD127⁺ ILC1s inhibit PD-1⁺ γδ T cells in the mesenteric adipose tissue to alleviate murine peritonitis○ Ritsu Nagata^{1,3)}, Yuichi Akama⁴⁾, Pedro Goncalves⁵⁾, Nicolas Serafini⁵⁾, Tomoko Kageyama²⁾, Manami Satoh^{1,3)}, Motomu Shimaoka⁴⁾, Hiroshi Ohno^{1,3)}, Naoko Satoh-Takayama^{2,3)}¹⁾Laboratory for Intestinal Ecosystem, Center for Integrative Medical Sciences RIKEN, ²⁾Precision Immune Regulation RIKEN ECL Research Unit, Center for Integrative Medical Sciences, RIKEN, ³⁾Graduate School of Medical Life Science, Yokohama City University, ⁴⁾Department of Molecular Pathobiology and Cell Adhesion Biology, Mie University Graduate School of Medicine, ⁵⁾Institut Pasteur, Université Paris Cité, Inserm U1223, Innate Immunity Unit

WS12-09-O/P

ILC1-Derived Amphiregulin Regulates Epithelial Turnover in Response to Mechanical Stress in the Skin○ Tetsuro Kobayashi¹⁾, Daisuke Asanuma²⁾, Shigeyuki Namiki²⁾, Kenzo Hirose²⁾, Kazuyo Moro^{1,3,4)}¹⁾Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾Department of Pharmacology, Graduate School of Medicine, The University of Tokyo, ³⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ⁴⁾Laboratory for Innate Immune Systems, iFReC, Osaka University

WS12-11-O/P

Identification of a FURIN-Dependent ILC2 Regulatory Mechanism Not Mediated by the p38-GATA3 Pathway○ Takuya Yashiro¹⁾, Kazuyo Moro^{1,2,3)}¹⁾Laboratory for innate immune systems, Graduate school of medicine, Osaka university, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, iFReC, Osaka University

WS12-15-O/P

Dietary antigens enhance ILC3s and regulate intestinal homeostasis○ Ayana Mori^{1,2)}, Shiho Nagata^{1,3)}, Tomoko Kageyama²⁾, Naoko Tachibana³⁾, Hiroshi Ohno^{3,4)}, Naoko Satoh-Takayama^{1,2)}¹⁾Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, ²⁾Precision Immune Regulation RIKEN ECL research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ³⁾Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁴⁾Laboratory for Immune Regulation, Graduate School of Medicine, Chiba University, Chiba, Japan

WS12-16-O/P

Development of a novel proliferation method of invariant Natural Killer T cells

○ Kiwamu Motoyoshi, Takahiro Aoki, Mariko Takami, Shinichiro Motohashi

Department of Medical Immunology, Graduate school of medicine, Chiba University

Hematopoietic stem cells give rise to all blood cells, including erythrocytes, myeloid cells, and lymphocytes. These multipotent progenitors develop and mature in the bone marrow and thymus then, migrate to other organs such as the spleen and lymph nodes for further differentiation. The stepwise processes of immune cell differentiation are finely tuned by the interplay between immune cells and immune environment, which leads to changes in gene expression by transcription factors and epigenetic modifications. Dysregulation of these hematopoietic processes alters the fate and functions of immune cells and sometimes causes hematological diseases. In this workshop, we will discuss recent discoveries related to cellular and molecular mechanism of immune cell differentiation and the immune environment, as well as new analytical technologies.

WS13-01-O/P

Identification and characterization of CXCL13 producers in bone tissue

○ Takuma Okawa¹⁾, Motoyoshi Nagai^{1,2)}, Kazuaki Nakata²⁾, Taeko Dohi¹⁾, Yuki I. Kawamura²⁾, Shinya Fujita³⁾, Keiyo Takubo^{3,4)}, Koichiro Suzuki¹⁾, Koji Hase^{1,5,6)}

¹⁾Graduate School of Pharmaceutical Science, Keio University, ²⁾Clinical Research Advancement Section, Research Institute, National Center for Global Health and Medicine, ³⁾Department of Stem Cell Biology, Research Institute, National Center for Global Health and Medicine,

⁴⁾Department of Cell Fate Biology and Stem Cell Medicine, Tohoku University Graduate School of Medicine, ⁵⁾The Institute of Fermentation Sciences, Faculty of Food and Agricultural Sciences, Fukushima University, ⁶⁾International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo

WS13-03-O/P

Systemic inflammation skews cell fate of common lymphoid progenitors

○ Masashi Kanayama, Toshiaki Ohteki

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

WS13-08-O/P

A novel synergistic activity of bHLH transcription factor E2A and Erg instructs B cell lineage commitment by regulating the enhancer landscape

○ Reiko Hidaka, Kazuko Miyazaki, Hiroshi Kawamoto, Masaki Miyazaki

Kyoto University, Institute for Life and Medical Sciences, Department of Immunology.

WS13-09-O/P

Non canonical Polycomb group proteins regulate T cell development in a sex-dependent manner

○ Mayumi Hirakawa, Tomokatsu Ikawa

Division of Immunology and allergy, Research Institute for Biomedical Sciences, Tokyo University of Science

WS13-13-O/P

CD69 controls regulatory T cell generation in the thymus

○ Yukihiro Endo, Nanako Yasujima, Taiyo Sasayama, Ichita Hasegawa, Yangsong Wang, Shunka Kano, Ryo Nasu, Motoko Kimura

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

WS13-16-O/P

A single-cell analysis revealed tissue-restricted antigen-expressing fibroblasts accumulated in epithelium-free areas in rat thymic medulla

○ Yasushi Sawanobori, Yusuke Kitazawa, Hisashi Ueta, Nobuko Tokuda

Anatomy, Dokkyo Medical University

WS13-26-O/P

Single-particle phenotyping of immune cell-derived extracellular vesicles *in vivo* based on their tracking system

○ Tomoya Hayashi^{1,2,3)}, Shuntaro Shimizu^{1,2,3,4)}, Kouji Kobiyama^{1,2,3)}, Hideo Negishi^{1,2,3)}, Burcu Temizoz^{1,2,3)}, Ken J Ishii^{1,2,3)}

¹⁾Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo (IMSUT),

²⁾International Vaccine Design Center, IMSUT, ³⁾The University of Tokyo Pandemic Preparedness, Infection and Advanced Research Center (UTOPIA), The University of Tokyo, ⁴⁾Department of Chemistry, Chemical Engineering & Life Science, Yokohama National University

Macrophages are found in all tissues in the body, and they are highly heterogeneous populations in terms of their phenotypes and functions. Macrophages have been thought to play an important role not only in the host defense against pathogens but also in maintaining homeostasis. In this session, we would like to discuss recent progress in our understanding on the development and functional polarization of macrophages and how they control tissue homeostasis.

WS14-01-O/P**Retinoid X receptor activation facilitates the differentiation of monocytes into CX₃CR1^{hi} macrophages via mitochondrial metabolism**○ Hinata Sugiyama¹⁾, Masayoshi Onuki¹⁾, Wakana Ohashi^{1,2)}, Yuta Takamura³⁾, Hiroki Kakuta³⁾, Koji Hase^{1,4)}¹⁾Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio Univ., ²⁾School of Pharmaceutical Sciences, Shizuoka Univ.,³⁾Graduate School of Medicine Dentistry and Pharmaceutical Sciences, Okayama Univ., ⁴⁾IFeS, Fukushima Univ.**WS14-03-O/P****Fibroblast-derived CSF1 supports gut mucosal macrophage pool and resistance to bacterial infection**○ Soichiro Yoshida¹⁾, Daichi Nonaka¹⁾, Eriko Sumiya^{1,2)}, Shinichiro Sawa¹⁾¹⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, ²⁾Present address: Department of Orthopedic Surgery, Faculty of Medicine, University of Tokyo**WS14-04-O/P****Periportal macrophages protect against commensal-driven liver inflammation**○ Yu Miyamoto^{1,2)}, Masaru Ishii^{1,2)}¹⁾Department of Immunology and Cell Biology, WPI-Immunology Frontier Research Center, Osaka University, ²⁾Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University**WS14-08-O/P****MAFB in Macrophages Regulates Sympathetic Neuron Density in Cold-Induced Brown Adipose Tissue**○ Michito Hamada¹⁾, Manoj Kumar Yadav²⁾, Megumi Ishida¹⁾, Natalia Gogoleva¹⁾, Ching-Wei Liao¹⁾, Maho Kanai¹⁾, Akihiro Kuno¹⁾, Satoru Takahashi¹⁾¹⁾Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, ²⁾National Institutes of Health, Bethesda, MD 20892, USA**WS14-09-O/P****GPR35 signal regulates a regulatory macrophage subset in the adipose tissue**

○ Misato Mizutani, Rin Sugiyama, Akane Ishida, Katsuhiro Nakanishi, Wakana Ohashi, Eiji Umemoto

Laboratory of Microbiology and Immunology, University of Shizuoka

WS14-10-O/P**The roles of macrophages in parturition**

○ Sunao Matsuzaka, Haruta Mogami, Yu Matsuzaka, Eriko Yasuda, Masahito Takakura, Yoshitsugu Chigusa, Masaki Mandai

Department of Gynecology and Obstetrics, Kyoto University Graduate School of Medicine

WS14-13-O/P**Notch signaling regulates macrophage heterogeneity in liver disease**

○ Hongyan Qin

State Key Laboratory of Holistic Integrative Management, Department of Medical Genetics and Developmental Biology, Fourth Military Medical University

Our immune system has developed robust and sophisticated host defense mechanisms as a result of its prolonged struggle against infectious pathogens. Pathogens, on the other hand, have also evolved unique and unexpected immune evasion systems. Understanding these host and pathogen strategies enables the development of novel and effective therapies for infectious diseases. In this workshop we will focus on viral, fungal and parasitic infections with the latest findings on host and pathogen regulators, animal models of disease and vaccination, and effects of metabolic changes on the immune response. Active participation and constructive discussions would be highly appreciated.

WS15-01-O/P

Hepatic ILC1s confer host protection against viral infection during undernutrition

○ Megumi Tatematsu¹⁾, Shunsuke Takasuga¹⁾, Akane Fuchimukai¹⁾, Tsukasa Nabekura²⁾, Akira Shibuya³⁾, Koichi Ikuta⁴⁾, Takashi Ebihara^{1,5)}

¹⁾Akita University Graduate School of Medicine, ²⁾Aichi Cancer Center Research Institute, Division of Immune Response, ³⁾Faculty of Medicine, and Center for TARA, University of Tsukuba, ⁴⁾Center for Medical Education and Internationalization Graduate School of Medicine and Faculty of Medicine, Kyoto University, ⁵⁾Center for Integrated Control, Epidemiology and Molecular Pathophysiology of Infectious Diseases, Akita University

WS15-03-O/P

Non-canonical type I IFNs are regulated by cholesterol synthesis pathway and prime the RIG-I mediated antiviral innate immune signaling

○ Tasuku Nishimura¹⁾, Takahisa Kouwaki^{1,2)}, Ken Takashima^{1,2)}, Hiroyuki Oshiumi^{1,2)}

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

WS15-04-O/P

Regnase-1 haploinsufficiency restricted SARS-CoV-2 pneumonia in mice by reducing a neutrophil subset with the interferon-stimulated gene signature

○ Kotaro Tanaka¹⁾, Keiko Yasuda^{1,2)}, Junichi Aoki¹⁾, Osamu Takeuchi¹⁾

¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾Department of Immunology Nagoya City University Graduate School of Medical Sciences

WS15-05-O/P

The establishment of a transgenic mouse system to analyze HTLV-1-driven CD4⁺ T cell immortalization mechanism

○ M Ishrat Jahan¹⁾, Kenji Sugata¹⁾, Koki Nimura⁵⁾, Takushi Nomura¹⁾, Nobuko Irie²⁾, Kimi Araki⁴⁾, Masahiro Ono^{3,2)}, Yorifumi Satou^{1,2)}

¹⁾Joint research center for Human Retrovirus infections, Kumamoto University, ²⁾International Research Center for Medical Sciences (IRCMS), Kumamoto University, ³⁾Department of Life Sciences, Imperial College London, ⁴⁾Division of Developmental Genetics, Institute of Resource Development and Analysis, Kumamoto University, ⁵⁾School of Medicine, Kumamoto University, Japan

WS15-08-O/P

Immunological evaluation of post-fusion influenza vaccine adjuvanted with DSP-0546LP in the non-human primate model

○ Ayae Nishiyama¹⁾, Yuji Masuta¹⁾, Yu Adachi²⁾, Hidenori Kimura³⁾, Akihisa Fukushima³⁾, Yoshimasa Takahashi²⁾, Takuya Yamamoto¹⁾

¹⁾Laboratory of Precision Immunology, Center for Intractable Diseases and ImmunoGenomics research, National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ³⁾Sumitomo Pharma. Co., Ltd.

WS15-10-O/P

Binding analysis of HIV-2 Nef protein with host CD3 intracellular motif

○ Ryota Koseki¹⁾, Idai Ozawa¹⁾, Kengo Hirao¹⁾, Masato Sumi¹⁾, Takashi Tadokoro²⁾, Sophie Andrews³⁾, Sarah Rowland-Jones³⁾, Kimiko Kuroki¹⁾, Katsumi Maenaka¹⁾

¹⁾Hokkaido University, ²⁾Sanyo-Onoda City University, ³⁾University of Oxford

WS15-15-O/P

Sex bias in the immune response to the emerging fungal pathogen *Sporothrix brasiliensis*

○ Fabio Seiti Yamada Yoshikawa¹⁾, Sandro Rogerio de Almeida²⁾, Shinobu Saijo¹⁾

¹⁾Medical Mycology Research Center, Chiba University, Chiba, Japan, ²⁾Faculty of Pharmaceutical Sciences, University of Sao Paulo, Sao Paulo, Brazil

PILRs and their SNP mutations are involved in the regulation of host immune responses against the pathogenic fungus, *Aspergillus fumigatus*

○ Yasunobu Miyake, Hiroki Yoshida
Saga University, Faculty of Medicine

December 4

WS16 TCR-mediated signaling

15:10 ~ 16:25 Room B

Chairpersons: Satoshi Matsuda, Yuriko Tanaka

Antigen recognition through TCR triggers a diverse array of T cell responses including development, activation, and functional differentiation. This is also the case with innate T cells. Recent advances in research methodologies such as proximity-dependent labeling and TIRF imaging have unveiled a detailed landscape of TCR signaling pathway. In this session consisting of 7 talks and 13 posters, we will discuss wide variety of mechanisms regulating T cell activation upon antigen recognition. We hope active participation and discussion for elucidating the molecular basis of TCR signaling pathway.

The difference of Lck interactomes in CD4⁺CD8⁻ and CD4⁻CD8⁺ thymocytes

○ Junji Harada^{1,2)}, Ichiro Taniuchi¹⁾

¹⁾Laboratory for Transcriptional Regulation, Center for Integrative Medical Sciences, RIKEN, ²⁾Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University

The quantitative detection of T cells with biallelic TCR α rearrangements

○ Takahiro Iguchi¹⁾, Ryunosuke Muro²⁾, Takeshi Nitta²⁾, Hiroshi Takayanagi¹⁾

¹⁾Department of Immunology, Graduate School of Medicine, The University of Tokyo, ²⁾Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science

Human T cells broadly recognizing multiple mycobacterial lipids

○ Nanami Kamata^{1,2)}, Yuki Sakai^{1,2)}, Minoru Asa^{1,2)}, Hayato Kasai^{1,2)}, Sho Yamasaki^{1,2,3)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), Osaka University, ³⁾Center for Infectious Disease Education and Research (CiDER), Osaka University

Single-cell analysis reveals age-related differences in T cell response to COVID-19 mRNA vaccines

○ Ayana Sunami^{1,2)}, Norihide Jo^{2,3)}, Yoko Hamazaki^{1,2,4)}

¹⁾Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University, ²⁾Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University, ³⁾Alliance Laboratory for Advanced Medical Research, Graduate School of Medicine, Kyoto University, ⁴⁾Kyoto University Immunomonitoring Center (KIC)

Neoself-antigens are the primary target for autoreactive T cells in human lupus

○ Shunsuke Mori, Hisashi Arase

Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, Osaka University

M-cell-dependent commensal uptake confers encephalitogenic phenotypes on $\gamma\delta$ T17 cells in Peyer's patch

○ Seiga Komiyama¹⁾, Yuyo Ka²⁾, Tomoyuki Ogura²⁾, Satoshi Onawa³⁾, Hiroshi Watarai⁴⁾, Tsuneyasu Kaisho⁵⁾, Nobuyuki Udagawa⁶⁾, Daisuke Takahashi¹⁾, Koji Hase¹⁾

¹⁾Division of Biochemistry, Graduate School of Pharmacy, Keio University, ²⁾Animal Resource Technical Research Center, Central Institute for Experimental Medicine and Life Science, ³⁾Kanagawa Institute of Industrial Science and Technology, ⁴⁾Department of Immunology and Stem Cell Biology, Kanazawa University, ⁵⁾Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, ⁶⁾Department of Oral Biochemistry, Matsumoto Dental University

Alterations of human liver $\gamma\delta$ T cells by CMV infection

○ Mouna Khan¹⁾, Hajime Morita¹⁾, Tashiaki Bando¹⁾, Lynn Zreka¹⁾, Shuhe Ma^{1,2)}, Daichi Akuzawa¹⁾, Yuki Masuo¹⁾, Shunsuke Uno¹⁾, Moyu Zhang¹⁾, Hideki Ueno^{1,2)}

¹⁾Human Immunology, Graduate School of Medicine, Kyoto University., ²⁾Immunology Group, Institute for the Advanced Study of Human Biology (ASHBi), KUIAS Kyoto University, Kyoto, Japan

WS17 B cell activation and differentiation

15:10 ~ 16:25 Room C

Chairpersons: Daisuke Kitamura, Kyoko Ochiai

B cells are an essential part of our humoral immune system and can produce antibodies against many kinds of pathogen in a helper T cell-dependent manner. However, some B cells can solely produce antibodies during an immune response to Th cell-independent antigen, e.g., LPS, bacterial DNA. B cells contribute to our immune system as a soldier and also a commander. We here discuss many questions about B cell differentiation: how B cells and antibodies control an innate immune response, how activated or germinal center B cells determine their fate, and how B cells distinguish between foreign and self antigens.

Role of antigen and IgM persistent in endosome/lysosome in T cell-independent antibody response to polysaccharides

○ Asahi Nunokawa^{1,2)}, Kana Matsumura¹⁾, Huang Yuming¹⁾, Takeshi Tsubata^{1,2)}

¹⁾Tokyo Medical and Dental University, ²⁾Nihon University School of Dentistry

Essential roles of Fc μ R and complement activation in eliciting effective humoral immunity

○ Zichao Wen¹⁾, Lulu Dong¹⁾, Jun Liu¹⁾, Qing Min²⁾, Ying Wang¹⁾, Ziying Hu³⁾, Xiaoqian Feng¹⁾, Chaoqun Cui¹⁾, Yingying Luan¹⁾, Yaxuan Li¹⁾, Birgitta Heyman⁵⁾, Ji-Yang Wang^{1,2,4)}

¹⁾Department of Immunology, School of Basic Medical Sciences, Fudan University, Shanghai, China., ²⁾Shanghai Sci-Tech Inno Center for Infection & Immunity, Shanghai, China., ³⁾Department of Microbiology and Immunology, College of Basic Medical Sciences, Zhengzhou University, Zhengzhou, China., ⁴⁾Department of Clinical Immunology, Children's Hospital of Fudan University, National Children's Medical Center, Shanghai, China., ⁵⁾Department of Medical Biochemistry and Microbiology, Uppsala University, Uppsala, Sweden.

The contribution of IL-9 receptors on peritoneal B cells and ILC2 to the T-cell-independent immune responses

○ Mari Tenno, Takumi Umezu, Yuko Emoto, Haruna Sato, Kei Kato, Daisuke Kitamura

Tokyo University of Science

Explore the alteration of B cell caused by *Bach2*-deficiency

○ Kyoko Ochiai¹⁾, Yayoi Kimura²⁾, Kazuhiko Igarashi¹⁾

¹⁾Biochemistry, Tohoku University Graduate School of Medicine, ²⁾Advanced Medical Research Center, Yokohama City University

Plasma cell KLF2 expression at the induction site directs migration to the bone marrow

Wataru Ise^{1,2,8)}, ○ Takuya Koike^{1,2,7,8)}, Yuki Tai²⁾, Taiichi Shirai³⁾, Ryoji Kawakami⁴⁾, Takeshi Inoue²⁾, Nozomi Hojo⁵⁾, Katsuyuki Shiroguchi⁵⁾, Kazuhiro Suzuki³⁾, Tomohiro Kurosaki^{2,6,7)}

¹⁾Regulation of Host Defense Team, Division of Microbiology and Immunology, Center for Infectious Disease Education and Research, Osaka University, ²⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, Osaka University, ³⁾Laboratory of Immune Regulation, WPI Immunology Frontier Research Center, Osaka University, ⁴⁾Laboratory of Experimental Immunology, WPI Immunology Frontier Research Center, Osaka University, ⁵⁾Laboratory for Prediction of Cell Systems Dynamics, RIKEN Center for Biosystems Dynamics Research (BDR), ⁶⁾Center for Infectious Diseases Education and Research, Osaka University, ⁷⁾Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS), ⁸⁾These authors contributed equally

Autoreactive B cells are formed by somatic hypermutation without help of autoreactive T cells

○ Wataru Okada, Shun Tokumoto, Sano Nagano, Miya Yoshino, Koji Tokoyoda

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

Humanized BCR mice are a useful tool for analysis of autoreactive B cells

○ Rinka Ito¹⁾, Yutaro Yada¹⁾, Yasuhiro Kazuki²⁾, Yoshihiro Baba¹⁾

¹⁾Medical Institute of Bioregulation, Kyushu Univ., ²⁾Tottori Univ.

All-trans-retinoic acid suppresses age-associated B cell generation and ameliorates autoimmunity

○ Keisuke Imabayashi, Yoshihiro Baba

Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University

WS18 Infection immunity 3

15:10 ~ 16:25 Room D

Chairpersons: Manabu Ato, Miwa Sasai

Bacterial infections are a significant threat to global health. Antimicrobial resistance threatens effective prevention and treatment of bacterial infections. To address this worldwide health challenge, it is crucial to gain a comprehensive understanding of both pathogens and the host immune responses. In this workshop, we will focus on bacterial and protozoan infections of the host immune system, vaccine development, and treatment. Active participation and constructive discussion are highly appreciated.

***Salmonella* utilizes antibiotics and antibodies for immune evasion**○ Uki Kimura¹⁾, Karen Saiki¹⁾, Nobuhiro Matsuyama¹⁾, Akiko Takaya²⁾, Koji Tokoyoda¹⁾¹⁾Division of Immunology, Graduate School of Medical Sciences, Tottori University, Tottori, Japan., ²⁾Department of Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan.**Oligopeptide binding protein A provides novel preventive paradigms against *Salmonella* infections**○ Ken Yoshii¹⁾, Koji Hosomi¹⁾, Takahiro Nagatake^{1,2)}, Jun Kunisawa^{1,3,4,5,6,7)}¹⁾Laboratory of Vaccine Materials and Laboratory of Gut Environmental System, National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), ²⁾Laboratory of Functional Anatomy, Department of Life Sciences, School of Agriculture, Meiji University, ³⁾Graduate School of Medicine, Pharmaceutical Sciences, Dentistry and Science, Osaka University, ⁴⁾International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo, ⁵⁾Department of Microbiology and Immunology, Kobe University Graduate School of Medicine, ⁶⁾Graduate School of Biomedical and Health Sciences, Hiroshima University, ⁷⁾Research Organization for Nano and Life Innovation, Waseda University**Pilus-based vaccine development to prevent Group A Streptococcal infections**○ Jacelyn Mei San Loh^{1,2)}, Adrina Khemlani¹⁾, Catherine Tsai^{1,2)}, Nikki Moreland^{1,2)}, Thomas Proft^{1,2)}¹⁾Department of Molecular Medicine & Pathology, School of Medical Sciences, The University of Auckland, ²⁾Maurice Wilkins Centre for Molecular Biodiscovery, Auckland, New Zealand**Novel tuberculosis vaccine evaluation with simian immunodeficiency virus and mycobacterium tuberculosis co-infected monkey model**

○ Natsuko Yamakawa, Yasuhiro Yasutomi

NIBIOHN Tsukuba Primate Research Center

A phage cocktail predicting the evolution of phage resistance can effectively combat MDR *Acinetobacter baumannii* infection and delay phage resistance○ Yong Shao^{1,4)}, Ying Zhang^{2,3)}, Jianqiong Zhang^{1,2,3,4)}¹⁾Key Laboratory of Developmental Genes and Human Disease, Ministry of Education, Southeast University, Nanjing, China, ²⁾Department of Microbiology and Immunology, Medical School, Southeast University, Nanjing, China, ³⁾Department of Critical Care Medicine, Zhongda Hospital, Jiangsu Provincial Key Laboratory of Critical Care Medicine, Medical School, Southeast University, Nanjing, China, ⁴⁾School of Life Science and Technology, Southeast University, Nanjing, China**Association between LILRB3 and LILRA6 alleles and bacterial infection**○ Gen Hasegawa^{1,2)}, Kouyuki Hirayasu^{1,3)}, Yifan Li¹⁾, Hisashi Arase^{4,5,6)}, Masaya Yamaguchi^{6,7,8,9)}, Shigetada Kawabata^{6,8)}, Rikinari Hanayama^{1,10)}¹⁾Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, ²⁾Keiju Medical Center, ³⁾Department of Evolutionary Immunology, Advanced Preventive Medical Sciences Research Center, Kanazawa University, ⁴⁾Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, ⁵⁾Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, ⁶⁾Center for Infectious Disease Education and Research, Osaka University, ⁷⁾Bioinformatics Research Unit, Graduate School of Dentistry, Osaka University, ⁸⁾Department of Microbiology, Graduate School of Dentistry, Osaka University, ⁹⁾Bioinformatics Center, Research Institute for Microbial Diseases, Osaka University, ¹⁰⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University

The cAMP Responsive Element Modulator (CREM) Transcription Factor Regulates Innate and Adaptive Immunity and Alters Susceptibility to Malnutrition

○ Audrey Brown¹, Md Jashim Uddin¹, Rebecca Munday⁴, Farha Naz¹, G Brett Moreau¹, Girija Ramakrishnan¹, Stephen Rich², Rashidul Haque³, Priya Duggal⁴, Chelsea Marie¹, William Petri Jr.¹

¹Division of Infectious Diseases and International Health, Department of Medicine, University of Virginia School of Medicine, Charlottesville, Virginia, USA, ²Department of Public Health Sciences, Center for Public Health Genomics, University of Virginia School of Medicine, Charlottesville, Virginia, USA, ³International Centre for Diarrheal Disease Research, Dhaka, Bangladesh, ⁴Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA

WS19 Tolerance and immune suppression focusing on regulatory T cell biology 15:10 ~ 16:25 Room E

Chairpersons: Kenji Chamoto, Naoko Satoh-Takayama

This workshop focuses on fundamental advances in understanding immune tolerance and suppression, particularly emphasizing regulatory T cell (Treg) biology. Key topics include the modulation of transcription factor Foxp3, which regulates Treg development and function, and how Treg cells mediate targeted suppression of immune responses. The session also explores pathways involved in Treg development in the thymus and peripheral tissues and mechanisms controlling the interplay between immune cells and signaling pathways such as Runx3/Cbfb and RORyt. Advances in the induction of antigen-specific Tregs using mRNA technology and the characterization of Tregs from peripheral blood are discussed for their therapeutic potential in autoimmune diseases and transplant rejection.

WS19-01-O/P

Runx3/Cbfb is required for differentiation and function of Thetis APCs that drives Roryt⁺ pTreg differentiation

○ Chihiro Ogawa, Ichiro Taniuchi

RIKEN Center for Integrative Medical Sciences, Laboratory for Transcriptional Regulation

WS19-02-O/P

Foxp3 corporates with NFkB to promote endogenous Foxp3 transcription *in vivo*

○ Yuxi Wei, Akira Nakajima, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS19-03-O/P

Possible diversity of Treg cell development pathways branching from CD25^{neg}Foxp3^{neg} pre-precursor stage in the thymus

○ Ryoji Kawakami^{1,2}, Shimon Sakaguchi^{1,2}

¹Institute for Life and Medical Sciences (LiME), Kyoto University, ²Immunology Frontier Research Center (IFReC), Osaka University

WS19-04-O/P

Generation and activation of naturally arising memory-phenotype CD4⁺ T lymphocytes are homeostatically restricted by regulatory T cells dependently of TCR, CD28, and IL-2 signaling

○ Jing Li, Ziyang Yang, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Naoto Ishii, Takeshi Kawabe

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

WS19-05-O/P

Characterization of peripheral blood Treg cells

○ Takashi Sekiya

Department of Immune regulation, The Research Center for Hepatitis and Immunology, National Center for Global Health and Medicine

WS19-06-O/P

CD80/CD86-CD28 signal blockade during the mixed lymphocyte reaction augments the alloantigen-specific inhibitory function of natural regulatory T cells

○ Kyoko Yogo^{1,3}, Kazuyoshi Takeda¹, Ko Okumura¹, Ryuichi Murakami², Shohei Hori², Koichiro Uchida¹

¹Center for Immunotherapy and Diagnosis, Juntendo University, ²Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ³JUNTEN BIO Co., Ltd.

Induction of antigen-specific Treg in vivo with mRNA○ Shota Imai¹⁾, Tomoyoshi Yamano^{1,2)}, Rikinari Hanayama^{1,2)}¹⁾Department of Immunology, Graduate School of Medicine, Kanazawa University, ²⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University**WS20 Organ-Specific Immune Diseases**

15:10 ~ 16:25 Room F

Chairpersons: Kimito Kawahata, Haruka Miki

The studies presented in this session focus on a heterogeneous group of diseases, including autoimmune and inflammatory diseases occurring in the nervous system, endocrine system, digestive system, skin, etc. Various studies using human specimens and animal models will be presented to clarify the immunopathogenesis underlying these diseases, and these methods and findings will be useful for developing new research in other fields as well. We hope that all participants have an active discussion in both oral and poster presentation and that this session will provide insights into understanding disease mechanisms.

Neutrophil-derived IL-23 p19 monomer suppresses type 17 immunity○ Daiya Ohara, Yusuke Takeuchi, Yoonha Lee, Hiroki Mukoyama, Hitomi Watanabe, Gen Kondoh, Keiji Hirota
Institute for Life And Medical Sciences, Kyoto University**Th1-type Tregs induced by interferon- γ limit EAE exacerbation**○ Masaaki Okamoto¹⁾, Naganori Kamiyama⁴⁾, Takashi Kobayashi^{4,5)}, 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, ⁴⁾Department of Infectious Disease Control, Faculty of Medicine, Oita University, ⁵⁾Research Center for GLOBAL and LOCAL Infectious Diseases, Oita University**Stage-dependent dynamics of resident memory T cells in lesion sites of multiple sclerosis and neuromyelitis optica spectrum disorders**○ Fumihiro Yanagimura^{1,5)}, Akihiro Nakajima¹⁾, Etsuji Saji¹⁾, Takashi Nakajima⁵⁾, Hiroshi Shimizu²⁾, Yasuko Toyoshima^{2,7)}, Hitoshi Takahashi^{6,8)}, Akiyoshi Kakita²⁾, Masatoyo Nishizawa^{4,8)}, Osamu Onodera¹⁾, Izumi Kawachi^{1,3)}¹⁾Department of Neurology, Brain Research Institute, Niigata University, ²⁾Department of Pathology, Brain Research Institute, Niigata University, ³⁾Medical Education Center, Niigata University School of Medicine, ⁴⁾Niigata University of Health and Welfare, ⁵⁾Department of Neurology, NHO Niigata National Hospital, ⁶⁾Niigata Neurosurgical Hospital, ⁷⁾Agano Hospital, ⁸⁾Brain Research Institute, Niigata University**Ketogenic diet regulates autoimmune neuroinflammation via changes in small intestinal gut microbiome**○ Katsuki Yaguchi^{1,2)}, Tadashi Takeuchi^{1,3)}, Eiji Miyauchi^{1,4)}, Masami Kawasumi¹⁾, Yumiko Nakanishi¹⁾, Tamotsu Kato¹⁾, Jigen Sekine¹⁾, Shin Maeda²⁾, Hiroshi Ohno^{1,5)}¹⁾Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan., ²⁾Department of Gastroenterology, Graduate School of Medicine, Yokohama City University, Yokohama, Japan., ³⁾Department of Microbiology and Immunology, Stanford University School of Medicine, California, USA., ⁴⁾Institute for Molecular and Cellular Regulation, Gunma University, Maebashi, Japan., ⁵⁾Immunobiology Laboratory, Department of Medical Life Science, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan.***Akkermansia muciniphila* endorses T cell pathogenicity and invasion to CNS in experimental autoimmune encephalomyelitis**○ Manu Mallahalli Shanthappa¹⁾, Hirohiko Hohjoh²⁾, Daiki Takewaki¹⁾, Shinji Oki¹⁾, Wakiro Sato¹⁾, Takashi Yamamura¹⁾¹⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Ogawahigashicho, Kodaira, Tokyo., ²⁾Department of Molecular Pharmacology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Ogawahigashicho, Kodaira, Tokyo**CXCL13 producing peripheral helper T cell (Tph) is a crucial pathogenesis in Castleman disease (iMCD)**○ Kazuyuki Yoshizaki¹⁾, Yoshikane Kikushige²⁾, Takuya Harada²⁾, Hiroaki Niiro²⁾, Kazuko Uno³⁾, Atsushi Kawakami⁴⁾, Tomohiro Koga⁴⁾¹⁾Osaka Univ., ²⁾Kyushu Univ., ³⁾Louis Pasteur Center for Medical Research, ⁴⁾Nagasaki University

WS20-12-O/P

Identification of *PTPN2* as a population-specific susceptibility locus for primary biliary cholangitis through genome-wide association study

○ Yuki Hitomi¹⁾, Yoshihiro Aiba²⁾, Kazuyoshi Ishigaki³⁾, Minoru Nakamura^{2,4,5)}

¹⁾Department of Human Genetics, Research Institute, National Center for Global Health and Medicine, ²⁾Clinical Research Center, NHO Nagasaki Medical Center, ³⁾Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, ⁴⁾Division of Biomedical Information Analysis, Medical Institute of Bioregulation, Kyushu University, ⁵⁾Department of Hepatology, Nagasaki University Graduate School of Biomedical Sciences

WS20-15-O/P

Development of novel therapy targeting gut microbiota for primary sclerosing cholangitis

○ Haruka Okada¹⁾, Masataka Ichikawa²⁾, Nobuhiro Nakamoto¹⁾, Takanori Kanai¹⁾

¹⁾Division of Gastroenterology & Hepatology, Department of Internal Medicine, Keio University School of Medicine, ²⁾Division of Gastroenterology, Tokyo Dental College Ichikawa General Hospital

WS21 Granulocytes and Mast cells in homeostasis and diseases

15:10 ~ 16:25 Room G

Chairpersons: Hisako Kayama, Sujin Kang

Granulocytes derived from myeloid lineage, including neutrophils, basophils, eosinophils, together with mast cells function as key players under several inflammatory conditions through exerting immunomodulatory activities. In this session, we highlight the roles of granulocytes and mast cells in infection, sepsis, and tissue (liver, lung, and skin) inflammation. We hope that all participants have an active discussion in this session. (7 min for presentation and 3 min for discussion)

WS21-01-O/P

IL-27 signaling promotes peanut-specific IgE production

○ Jun Kasamatsu¹⁾, Hiroki Yoshida²⁾, Hiromitsu Hara¹⁾

¹⁾Kagoshima University, ²⁾Saga University

WS21-03-O/P

RNA-binding protein tristetraprolin negatively regulates pro-inflammatory mediator production in basophils via mRNA degradation

○ Junya Ito^{1,2)}, Kensuke Miyake¹⁾, Tomoki Chiba²⁾, Hajime Karasuyama¹⁾, Hiroshi Asahara²⁾

¹⁾Institute of Research, Tokyo Medical and Dental University (TMDU), ²⁾Department of Systems BioMedicine, Tokyo Medical and Dental University (TMDU)

WS21-04-O/P

Basophils are crucial for the resolution of lung inflammation in acute respiratory distress syndrome

○ Kensuke Miyake¹⁾, Seiko Takasawa^{1,2)}, Tomoya Tateishi²⁾, Jun Sugihara²⁾, Junya Ito¹⁾, Hajime Karasuyama¹⁾, Yasunari Miyazaki²⁾

¹⁾Institute of Research, Tokyo Medical and Dental University (TMDU), ²⁾Department of Respiratory Medicine, Tokyo Medical and Dental University (TMDU)

WS21-05-O/P

Neutrophils are composed on heterogeneous subsets in Human Liver

○ Lynn Zreka¹⁾, Hajime Morita¹⁾, Toshiaki Bando¹⁾, Shuhe Ma^{1,2)}, Mouna Khan¹⁾, Daichi Akuzawa¹⁾, Yuki Masuo¹⁾, Shunsuke Uno¹⁾, Hirotaka Sato¹⁾, Hideki Ueno^{1,2)}

¹⁾Dept. of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾Immunology Group, Institute for the Advanced Study of Human Biology (ASHBi), KUIAS Kyoto University, Kyoto, Japan

WS21-06-O/P

Interferon-γ recruits immature neutrophils to suppress acute inflammation during polymicrobial sepsis in mice

○ Kenshiro Matsuda, Akira Shibuya

University of Tsukuba

WS21-07-O/P

Deficiency of the antioxidant stress response master transcription factor Nrf2 ameliorates IgE-induced anaphylaxis in mice by suppressing IgE-dependent activation of mast cells

○ Sakura Noguchi, Kazuki Nagata, Tsubasa Ashikari, Chiharu Nishiyama

Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science

Neuronal substance P-driven MRGPRX2-dependent mast cell degranulation products histamine and chymase differentially promote vascular permeability

○ Ayako Kaitani¹⁾, Masakazu Nagamine¹⁾, Kumi Izawa¹⁾, Tomoaki Ando¹⁾, Akihisa Yoshikawa^{1,2)}, Akie Maehara¹⁾, Naoko Negishi¹⁾, 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

WS22 New molecular and cellular mechanisms in cancer immunology 15:10 ~ 16:25 Room H

Chairpersons: Yoshihiro Hayakawa, Naoko Ohtani

The aim of this session is to highlight groundbreaking discoveries in the molecular and cellular dynamics of cancer immunology. By focusing on the identification and study of novel immune mechanisms, this session aims to pave the way for new therapeutic targets that can better modulate immune responses in cancer.

Satb1 maintains the functionality of regulatory and cytotoxic T cells during tumor responses

○ Wooseok Seo^{1,2)}, Chengcheng Zou²⁾, Kanako Shimizu²⁾, Ruka Setoguchi³⁾, Kiyokazu Kakugawa²⁾, Krutula Nair²⁾, Haruhiko Koseki²⁾, Terumi Kohwi-Shigematsu⁴⁾, Shohei Hori³⁾, Shin-ichiro Fujii²⁾, Hiroyoshi Nishikawa¹⁾, Ichiro Taniuchi²⁾

¹⁾Nagoya University / Dep. of Immunology, ²⁾RIKEN, ³⁾University of Tokyo, ⁴⁾University of California

T cell exhaustion steps according to mitochondrial status and the analysis of their glycolytic function

○ Koji Kitaoka¹⁾, Yasuharu Haku¹⁾, Tomonori Yaguchi^{1,2)}, Tasuku Honjo¹⁾, Kenji Chamoto^{1,2)}

¹⁾Center for Cancer Immunotherapy and Immunobiology Graduate School of Medicine Kyoto University, ²⁾Department of Immuno-Oncology PDT, Graduate School of Medicine Kyoto University

A novel pro-tumorigenic mechanism of Ex-Regs in cancer

○ Qiao Gou¹⁾, Hiroyuki Takaba¹⁾, Daizo Koinuma²⁾, Kohei Miyazono^{2,3)}, Hiroshi Takayanagi¹⁾

¹⁾Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ²⁾Department of Molecular Pathology, Graduate School of Medicine, The University of Tokyo, ³⁾Department of Applied Pathology, Graduate School of Medicine, The University of Tokyo

Establishment of monoclonal antibodies derived from tumor-infiltrating B cells for cancer therapeutic application

○ Tsubasa Kobayashi¹⁾, Toshihiro Suzuki²⁾, Tetsuya Nakatsura²⁾, Daisuke Kitamura¹⁾

¹⁾Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Division of Cancer Immunotherapy, EPOC, National Cancer Center

Impacts of tumor-derived DCs on the thymus function

○ Yangsong Wang, Ichita Hasegawa, Yukihiro Endo, Ryo Nasu, Motoko Kimura

Chiba University

Deletion of the endoribonuclease Regnase-1 unleashes NK cell anti-tumor activity via OCT2-dependent transcription of *Ifng*

○ Yasuharu Nagahama^{1,2)}, Shizuo Akira^{1,3,4)}

¹⁾Laboratory of Host Defense, WPI Immunology Frontier Research Center, Osaka University, ²⁾Host Defense Laboratory, Immunology Unit, Osaka Research Center for Drug Discovery, Otsuka Pharmaceutical Co., Ltd., ³⁾Center for Advanced Modalities and Drug Delivery System, Osaka University, ⁴⁾Department of Host Defense, Research Institute for Microbial Diseases, Osaka University

Fibroblastic reticular cell-derived CXCL12 controls immunosuppression in tumor-draining lymph nodes

○ Yasuhiro Kanda¹⁾, Madoka Ozawa¹⁾, Takashi Nagasawa²⁾, Tomoya Katakai¹⁾

¹⁾Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences, ²⁾Laboratory of Stem Cell Biology & Developmental Immunology, Graduate School of Frontier Biosciences, Osaka University

LPS promotes mast cells induced fibrosis in cancer tissue by increasing CXCL8 and CCL19 expression

○ Xiangmei Zhang¹⁾, Jidong Zhao²⁾, Baoen Shan¹⁾

¹⁾Hebei Provincial Cancer Institute, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China, ²⁾Department of Thoracic Surgery, Fourth Hospital of Hebei Medical University, Shijiazhuang 050011, China

WS23 T cell regulation in host defense and disease

12:50 ~ 14:05 Room B

Chairpersons: Shinya Tanaka, Noriko Komatsu

T cells play a central role in the regulation of host defense and disease by being activated and differentiated in peripheral tissues. These processes are regulated by various molecular mechanisms, which depend on the surrounding environment. In this session, we will discuss the latest advances in understanding the molecular mechanisms of T cell regulation under different environmental context. Additionally, this session will cover insights gained not only from rodent models but also from human samples and non-human primate models for more comprehensive understanding of the biological phenomena involving T cells. The session consists of 19 presentations, including 7 oral presentations (8-minute talks followed by 2 minutes of discussion) and 12 poster presentations, and we look forward to active discussions by the participants.

WS23-01-O/P

CD7 Deficiency Impairs T Cell Activation, Differentiation, and Survival

○ Tristan Yoder, Wan-Lin Lo

University of Utah

WS23-02-O/P

Role of TFH and IL-4 signal in Boost-vaccination with SARS-CoV-2 spike protein

○ Jumana Khalil^{1,2)}, Yuichiro Yamamoto³⁾, Kohji Noguchi³⁾, Rina Hashimoto⁴⁾, Kazuo Takayama⁴⁾, Masato Kubo^{2,5)}

¹⁾Kyoto University, Graduate School of Medicine, Department of Immunology, ²⁾Tokyo University of Science, Division of Molecular Pathology, Research Institute for Biomedical Science, ³⁾Tokyo University of Science, Department of Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, ⁴⁾Kyoto University, Center for iPS Cell Research and Application, ⁵⁾RIKEN, Laboratory for Cytokine Regulation, Center for Integrative Medical Sciences

WS23-03-O/P

MyD88 and IL-2 control memory T helper cell formation

○ Kokoro Ohki¹⁾, Shintaro Hojyo²⁾, Mei Sakagami¹⁾, Koji Tokoyoda¹⁾

¹⁾Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, ²⁾Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

WS23-04-O/P

Induction of cytotoxic CNS-associated Eomes-expressing Th cells via upregulation of type I interferon

○ Tzuwen Yeh¹⁾, Fumio Takahashi¹⁾, Marco Prinz²⁾, Takashi Yamamura¹⁾, Shinji Oki¹⁾

¹⁾National Center of Neurology and Psychiatry, ²⁾Institute of Neuropathology, University of Freiburg, Freiburg, Germany

WS23-05-O/P

Co-expression of CD276 and Lag3 are cell surface markers for functional cytotoxic CD4 T cells in humans

○ Yumi Tamura, Shun Ohki, Yohei Kawano, Rin Yoshizato, Haruna Nagai, Shizuki Nishi, Yuqi Jin, Yasuo Kitajima, Yun Guo, Tomoharu Yasuda

Department of Immunology, Graduate School of Biomedical & Health Sciences, Hiroshima University

WS23-06-O/P

Macaque IL-10-producing CD4 CD8 double positive T cells in the peripheral blood exhibit memory phenotype and increase with age

○ Ryota Takahashi, Hirohito Ishigaki, Yasushi Itoh

Shiga Univ. of Med. Sci., Dept. of Pathology, Dev. of Pathogenesis and Disease Regulation

WS23-07-O/P

Age-related changes of naïve T cell function in a non-human primate model

○ Yoshinori Okina¹⁾, Shokichi Takahama¹⁾, Takuto Nogimori¹⁾, Yasuhiro Yasutomi²⁾, Takuya Yamamoto^{1,3,4)}

¹⁾Laboratory of Precision Immunology, Center for Intractable Diseases and ImmunoGenomics, National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾Laboratory of Immunoregulation and Vaccine Research, Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition, ³⁾Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, ⁴⁾Department of Virology and Immunology, Graduate School of Medicine, Osaka University

WS24 Dendritic cells: Molecular basis for regulation of their differentiation, activation, and function 12:50 ~ 14:05 Room C

Chairpersons: Hisako Kayama, Sujin Kang

Dendritic cells (DCs), which are present in almost every tissue of the body, can be divided into three main subsets, such as conventional DCs, plasmacytoid DCs, and monocyte-derived DCs. Our understanding of the functional specializations and development of distinct DC subsets has increased in recent years. This session will highlight the mechanisms regulating differentiation, activation, and function of DCs during infection and disease formation. We hope that all participants have an active discussion in this session. (7 min for presentation and 3 min for discussion)

WS24-02-O/P

The role of splenic CD8 α ⁺CD103⁺ cDC1 in the maintenance of immune homeostasis○ Junko Morimoto¹, Hiroyuki Kondo¹, Rinka Okahisa¹, Li Hui¹, Daisuke Kurotaki², Koji Yasutomo¹¹Department of Immunology and Parasitology, Graduate School of Medicine, Tokushima University, ²Laboratory of Chromatin Organization in Immune Cell Development, International Research Center for Medical Sciences, Kumamoto University

WS24-04-O/P

SIRP α promotes the survival of cDC2s by preventing their activation and induction of an nuclear receptor family protein○ Satomi Komori^{1,2}, Takenori Kotani², Yoji Murata², Takashi Matozaki^{1,2}, Yasuyuki Saito²¹Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ²Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine

WS24-08-O/P

Morphological abnormalities of induced pluripotent stem cell-derived dendritic cells (iPSC-derived DCs) in MIRAGE syndrome with *SAMD9* mutation○ Hidetoshi Hagiwara¹, Masataka Ito², Kanako Mitsui-Sekinaka¹, Kunihiko Moriya¹, Yujin Sekinaka¹, Yuri Kawasaki³, Yohko Kitagawa³, Kanako Tanase-Nakao⁴, Satoshi Narumi⁵, Megumu K. Saito³, Shigeaki Nonoyama¹, Kohsuke Imai¹¹Department of Pediatrics, National Defense Medical College, ²Department of Developmental Anatomy and Regenerative Biology, National Defense Medical College, ³Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, ⁴Department of Molecular Endocrinology, National Center for Child Health and Development, ⁵Department of Pediatrics, Keio University School of Medicine

WS24-09-O/P

The role of mitochondria damage in Imiquimod-induced psoriasis○ Daisuke Ori¹, Haruna Okude¹, Riko Konishi¹, Takumi Kawasaki², Taro Kawai^{1,3}¹Laboratory of Molecular Immunobiology, Division of Biological Science, Nara Institute of Science and Technology, ²Department of Immune Dynamics in Viral Infections, National Research Center for the Control and Prevention of Infectious Diseases, Nagasaki University, ³Life Science Collaboration Center (LiSCo), Nara Institute of Science and Technology (NAIST)

WS24-10-O/P

STAT1 binding element in the *Irf8* promoter is required for inducing a distinct inflammatory dendritic state during intracellular pathogen infection○ Kenta Kikuchi¹, Wataru Kawase², Yusuke Tsujimura³, Fuki Kudo⁴, Keita Saeki⁴, Takayuki Yoshimoto⁵, Manabu Ato³, Keiko Ozato⁴, Tomohiko Tamura², Daisuke Kurotaki¹¹Laboratory of Chromatin Organization in Immune Cell Development, International Research Center for Medical Sciences (IRCMS), Kumamoto University, ²Department of Immunology, Yokohama City University Graduate School of Medicine, ³Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, ⁴Program in Genomics of Differentiation, Eunice Kennedy Shriver National Institute of Child Health and Human Development, ⁵Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University

WS24-11-O/P

Genetic ablation of the protein tyrosine phosphatase Shp1 in CD11c⁺ cells improves insulin resistance○ Yoichi Imai¹, Yoriaki Kaneko¹, Masato Kinoshita¹, Junya Suwa¹, Mitsuharu Watanabe², Yasuyuki Saito³, Hiroshi Ohnishi⁴, Takashi Matozaki³, Keiju Hiromura¹¹Gunma University Graduate School of Medicine Department of Nephrology and Rheumatology, ²NHO Takasaki General Medical Center Department of Nephrology and Rheumatology, ³Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ⁴Department of Laboratory Sciences, Gunma University Graduate School of Health Sciences

WS24-15-O/P

Identification of CIITA degron and ubiquitination site by FBXO11○ Yusuke Kasuga^{1,3}, Royota Ouda¹, Masashi Watanabe², Xin Sun¹, Miki Kimura¹, Atsuki Takeishi^{1,3}, Tsutomu Tanaka^{1,3}, Shigetsugu Hatakeyama², Koichi Kobayashi^{1,3}¹Department of Immunology, Faculty of Medicine, Hokkaido University, ²Department of Biochemistry, Faculty of Medicine, Hokkaido University, ³Hokkaido University Institute for Vaccine Research and Development

B cells control humoral immunity together with helper T cells and themselves differentiate into plasma cells secreting one of the strongest weapons to pathogen, antibodies. Despite playing a key role in humoral immunity, it still remains unclear how B cells and plasma cells are generated and maintained in the body. We here discuss the lifestyle of B cells and plasma cells, in particular, the transcriptional regulators of B-lineage commitment and the dynamics of B cells and plasma cells during protective and pathological immune responses.

WS25-01-O/P

The trinity of transcription factors E2A, Ebf1 and Erg guides lymphoid progenitors to B cell lineage○ Rinako Hayashi¹⁾, Reiko Hidaka¹⁾, Kazuko Miyazaki¹⁾, Takashi Nagasawa²⁾, Hiroshi Kawamoto¹⁾, Masaki Miyazaki¹⁾¹⁾Institute for Life and Medical Sciences, Kyoto University, ²⁾Graduate School of Frontier Biosciences, Osaka University

WS25-02-O/P

Critical roles of UPF1 in early B cell development

○ Kotaro Akaki, Noriki Iwai, Takashi Mino, Osamu Takeuchi

Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS25-03-O/P

Self-enforcing networks of inflammatory cytokine signaling accelerate the development and recurrence of TCF3::HLF-positive B-ALL

○ Aisa Suzuki, Tsukasa Shigehiro, Tomokatsu Ikawa

Research Institutes for Biomedical Sciences, Tokyo University of Science

WS25-04-O/P

Essential role of ER membrane complex subunit 1 (EMC1) in B cell homing and humoral immunity○ Kazuhiko Kawata¹⁾, Chie Kikutake²⁾, Mikita Suyama²⁾, Yoshihiro Baba¹⁾¹⁾Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, ²⁾Medical Institute of Bioregulation, Bioinformatics, Kyushu University, Japan

WS25-05-O/P

Control of IgE production and germinal center B cell survival by Aps/Sh2b2, a member of Lnk-family adaptor proteins○ Shinya Hidano¹⁾, Masanori Iseki²⁾, Satoshi Takaki¹⁾¹⁾Department of Immune Regulation, The Research Center for Hepatitis and Immunology, Research Institute, National Center for Global Health and Medicine, ²⁾Department of Immunology and Molecular Genetics, Kawasaki Medical School

WS25-06-O/P

The J chain acts as a critical regulator for intestinal IgA⁺ plasma cell differentiation before weaning○ Ryo Goitsuka¹⁾, Keiko Fujisaki²⁾¹⁾Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences

WS25-07-O/P

Atypical and non-classical CD45RB^{lo} memory B cells are the majority of circulating SARS-CoV-2 specific B cells following mRNA vaccination or COVID-19○ David Geoffrey Priest¹⁾, Takeshi Ebihara^{2,3)}, Janyerkye Tulyeu⁴⁾, Jonas N. Søndergaard⁴⁾, Yumi Mitsuyama³⁾, Hisatake Matsumoto^{2,3)}, James B. Wing^{1,4,5)}¹⁾Laboratory of Human Single Cell Immunology, World Premier International Research Center Initiative Immunology Frontier Research Center (WPI-IFReC), Osaka University, Suita, Osaka 563-0793, Japan, ²⁾Center for Infectious Disease Education and Research (CiDER), Osaka University, Suita, Osaka 565-0871, Japan., ³⁾Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, Suita, Osaka 565-0871, Japan., ⁴⁾Human Single Cell Immunology Team, Center for Infectious Disease Education and Research (CiDER), Osaka University, Suita, Osaka 565-0871, Japan., ⁵⁾Center for Advanced Modalities and DDS (CAMA-D), Osaka University, Osaka, Japan.

The COMMD3/8 complex drives plasmablast differentiation of age-associated B cells during extrafollicular responses in lupus

○ Taiichi Shirai^{1,2)}, Kentaro Kuzuya¹⁾, Kazuhiro Suzuki^{1,2,3)}

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

WS26 Systemic Immune Diseases

12:50 ~ 14:05 Room E

Chairpersons: Hirofumi Shoda, Yohei Kirino

This session will present the latest research findings in systemic immune diseases, including systemic lupus erythematosus, Sjogren's syndrome, vasculitis, and systemic inflammatory diseases. In order to develop new treatments for these diseases, it is necessary to clarify the underlying pathogenesis of the diseases. In this regard, studies of human diseases and animal models using traditional and comprehensive omics approaches, which will be presented in this session, will be of great help. We hope that all participants have an active discussion in both oral and poster presentation and that this session will provide insights into understanding disease mechanisms.

Multimodal single-cell analysis revealed B cell receptor dynamic change in systemic lupus erythematosus

○ Toshiyuki Shiki Ushijima¹⁾, Hiroyuki Teruya¹⁾, Manaka Goto¹⁾, Hideyuki Takahashi¹⁾, Takahiro Itamiya^{1,2)}, Haruka Tsuchiya¹⁾, Hirofumi Shoda¹⁾, Tomohisa Okamura^{1,2)}, Keishi Fujio¹⁾

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

The B cell inhibitory receptor CD72 is a novel C1q receptor that prevents development of SLE by inhibiting B cell response to apoptotic cells

○ Hashadi Nadeesha Walakulu Gamage^{1,2,3)}, Chizuru Akatsu²⁾, Nobutaka Numoto¹⁾, Takahiro Tsuneshige^{1,2,3)}, Masatake Asano³⁾, Nobutoshi Ito¹⁾, Takeshi Tsubata^{1,2,3)}

¹⁾Department of Structural Biology, Medical Research Institute, Tokyo Medical and Dental University, ²⁾Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University, ³⁾Department of Pathology, Nihon University School of Dentistry

New quantitative and qualitative analytical framework of scRNAseq data reveals the pathophysiology of systemic lupus erythematosus

○ Masahiro Nakano¹⁾, Michihiro Kono^{1,2)}, Hiroaki Hatano¹⁾, Kenichiro Asahara¹⁾, Takahiro Nishino¹⁾, Haruka Takahashi^{1,2)}, Bunki Natsumoto¹⁾, Kazuyoshi Ishigaki^{1,2,3)}

¹⁾Laboratory for Human Immunogenetics, Riken Center for Integrative Medical Sciences, ²⁾Department of Microbiology and Immunology, Keio University School of Medicine, ³⁾Keio University Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q)

Development of the anti-human TLR7 monoclonal antibody for therapeutic intervention in systemic lupus erythematosus

○ Ryutaro Fukui¹⁾, Yusuke Murakami^{2,1)}, Atsuo Kanno¹⁾, Yuji Motoi¹⁾, Atsushi Manno⁴⁾, Tomohiro Honda⁵⁾, Shinnosuke Yamada⁵⁾, Jun Ishiguro⁶⁾, Kensuke Nakamura⁷⁾, Giorgio Senaldi⁸⁾, Toshiyuki Shimizu³⁾, Kensuke Miyake¹⁾

¹⁾The Institute of Medical Science, The University of Tokyo, ²⁾Department of Pharmaceutical Sciences & Research Institute of Pharmaceutical Sciences, Musashino University, ³⁾Graduate School of Pharmaceutical Sciences, The University of Tokyo, ⁴⁾Discovery Research Laboratories II, Daiichi Sankyo Co., Ltd., ⁵⁾Translational Science Department II, Daiichi Sankyo Co., Ltd., ⁶⁾Discovery Research Laboratories V, Daiichi Sankyo Co., Ltd., ⁷⁾Modality Research Laboratories II, Daiichi Sankyo Co., Ltd., ⁸⁾Clinical development, Daiichi Sankyo, Inc.

Salivary gland fibroblasts drive autoimmune pathology via the interaction with CD4⁺ T cells in Sjögren's syndrome

○ Kunihiro Otsuka^{1,2)}, Hiroyuki Kondo¹⁾, Shin-Ichi Tsukumo¹⁾, Naozumi Ishimaru³⁾, Koji Yasutomo¹⁾

¹⁾Department of Immunology and Parasitology, Graduate School of Medicine, Tokushima University, ²⁾Department of Oral Molecular Pathology, Graduate School of Dentistry, Tokushima University, ³⁾Department of Oral Pathology, Tokyo Medical and Dental University Graduate School of Medical and Dental Sciences

Anti-integrin $\alpha\beta6$ antibody in Takayasu arteritis with or without ulcerative colitis

○ Yuki Ishikawa¹⁾, Hiroyuki Yoshida^{2,3)}, Hajime Yoshifuji⁴⁾, Koichiro Ohmura^{4,5)}, Tomoki Origuchi⁶⁾, Tomonori Ishii⁷⁾, Tsuneyo Mimori^{4,8)}, Akio Morinobu⁴⁾, Masahiro Shiokawa²⁾, Chikashi Terao^{1,9,10)}

¹⁾Laboratory for Statistical and Translational Genetics, Center for Integrative Medical Sciences, RIKEN, ²⁾Department of Gastroenterology and Hepatology, Kyoto University Graduate School of Medicine, ³⁾Kansai Electric Power Hospital, ⁴⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, ⁵⁾Department of Rheumatology, Kobe City Medical Center General Hospital, ⁶⁾Department of Immunology and Rheumatology, Unit of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences, ⁷⁾Department of Hematology and Rheumatology, Tohoku Medical and Pharmaceutical University, ⁸⁾Takeda Clinic for Rheumatic Diseases, ⁹⁾Clinical Research Center, Shizuoka General Hospital, ¹⁰⁾School of Pharmaceutical Sciences, University of Shizuoka, The Department of Applied Genetics

Unravelling the gene regulatory networks driving the polygenetic risk of human complex diseases

○ Haruka Takahashi^{1,2)}, Hiroaki Hatano²⁾, Masahiro Nakano²⁾, Yumi Tsuchida³⁾, Shuji Sumitomo³⁾, Akari Suzuki⁴⁾, Yuta Kochi⁵⁾, Keishi Fujio³⁾, Kazuhiko Yamamoto⁴⁾, Kazuyoshi Ishigaki^{1,2,6)}

¹⁾Department of Microbiology and Immunology, Keio University School of Medicine, ²⁾Laboratory for Human Immunogenetics, Riken Center for Integrative Medical Sciences, ³⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ⁴⁾Laboratory for Autoimmune Diseases, Riken Center for Integrative Medical Sciences, ⁵⁾Department of Genomic Function and Diversity, Division of Biological Data Science, Medical Research Institute, Tokyo Medical and Dental University, ⁶⁾Keio University Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q)

Novel transcriptomic evidence for a shared immunological signature-based treatment of Adult-onset Still's disease and other autoinflammatory diseases

○ Ikuo Takazawa¹⁾, Haruka Tsuchiya¹⁾, Takahiro Itamiya^{1,2)}, Harumi Shirai¹⁾, Yumi Tsuchida¹⁾, Yasuo Nagafuchi^{1,2)}, Hirofumi Shoda¹⁾, Tomohisa Okamura^{1,2)}, Keishi Fujio¹⁾

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

Isoliquiritigenin inhibits activation of NLRP3 inflammasome with CAPS mutations by suppressing caspase-1 activation and mutant NLRP3 aggregation

○ Koudai Kani¹⁾, Hiroe Honda²⁾, Kiyoshi Takatsu²⁾, Yoshinori Nagai¹⁾

¹⁾Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²⁾Toyama Prefectural Institute for Pharmaceutical Research

WS27 Tolerance and immune suppression for disease control

12:50 ~ 14:05 Room F

Chairpersons: Tomonori Yaguchi, Maiko Sumikawa-Hajime

This workshop aims to discuss breakthroughs in immune tolerance and suppression, focusing on therapies for autoimmune diseases, transplants, and cancer. Key discussions highlight how regulatory T cells and other immune suppressive mechanisms contribute to tissue repair, disease remission, and successful transplantation. Novel conditioning methods, such as targeted irradiation, drug development and regulatory T cell induction, and stem cell modulation, can potentially reduce immune system attacks on vital tissues. In cancer research topic, we discuss the immune suppressive T cells to induce suppressive dendritic cells in tumor microenvironment. These developments offer new pathways for therapies that could improve outcomes in immune-related diseases by harnessing the body's natural regulatory mechanisms to achieve immune balance and prevent harmful immune reactions.

Orally induced tolerance of DTH depends on the inhibition of sensitization in skin-dLNs by integrin $\alpha4\beta7^+$ T cells derived from mesenteric LNs

○ Arisa Akagi¹⁾, Rintaro Shibuya²⁾, Sho Hanakawa³⁾, Akihiko Kitoh¹⁾, Kenji Kabashima^{1,3)}

¹⁾Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²⁾Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, United States, ³⁾Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Republic of Singapore

Neural repair and suppression of progression via modulation of microglia by tissue effector Tregs that maintain remission in experimental autoimmune encephalomyelitis

○ Youwei Lin^{1,2)}, Takashi Yamamura¹⁾

¹⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, ²⁾Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

WS27-03-O/P

Irradiation conditioning with head shielding protects allogeneic recipients against acute graft-versus-host disease○ Ismael Chatita Adolf¹, Sayuri Nakata¹, Takanori Teshima², Hitoshi Takizawa^{1,3}¹Laboratory of Stem Cell Stress, International Research Center for Medical Sciences, Kumamoto Univ, Kumamoto, ²Department of Hematology, Hokkaido Univ Graduate School of Medicine, Sapporo, ³Center for Metabolic Regulation of Healthy Aging (CMHA), Kumamoto Univ, Kumamoto

WS27-04-O/P

Both the increased expression of PD-1 and the production of humoral factors in stem cells from human exfoliated deciduous teeth reduce the damaging effects of peripheral blood mononuclear cells on human insulin-producing cells

○ Kenta Iwasaki

Department of Kidney disease and Transplant Immunology, Aichi Medical University School of Medicine

WS27-05-O/P

iPSCs engrafted in allogeneic hosts without immunosuppression induce donor-specific tolerance to secondary allografts○ Tomoki Kamatani¹, Reiko Kimura¹, Satoshi Ikeda², Makoto Inoue², Ken-ichiro Seino¹¹Hokkaido Univ., ²Sumitomo Pharma, Co., Ltd.

WS27-06-O/P

Disulfiram treatment inhibits antibody-mediated transplant rejection by suppressing macrophage activation and B-cell pyrimidine metabolism○ Etsuko Toda^{1,2}, Weili Chen¹, Kazuhiro Takeuchi^{3,1}, Shinobu Kunugi¹, Mika Terasaki¹, Yasuhiro Terasaki¹, Yuya Terashima², Akira Shimizu¹¹Nippon Medical School, ²Tokyo University of Science, ³Kagoshima Univ.

WS27-07-O/P

Targeting High CD86 Expression in CD8 T Cells to Enhance Antitumor Immunity in the Tumor Microenvironment○ Xin Hu¹, Yifang Shui^{1,2}, Weitao Que¹, Yixian Fan¹, Masayuki Fujino^{1,3}, Xiao-Kang Li¹¹National Research Institute for Child Health and Development, ²The First Affiliated Hospital of Zhengzhou University, ³National Institute of Infectious Diseases**WS28 Cytokines and chemokines**

12:50 ~ 14:05 Room G

Chairpersons: Shinobu Saijo, Takumi Maruhashi

Cytokines and chemokines play a central role in orchestrating the immune system. They are secreted by various immune cells and maintain homeostasis, repair tissue, and promote and converge inflammation through the receptors. Recent development of antibodies and small molecule compounds that inhibit these functions is remarkable, however, there are still a lot of basic findings that are expected to be applied in clinical practice. Therefore, we aim to discuss the cutting-edge findings of the diverse features of cytokines and chemokines in both health and disease conditions in this session.

WS28-01-O/P

Role of intrathrombotic CX3CR1-CX3CL1 axis during resolution on murine deep vein thrombosis model○ Mizuho Nosaka, Yuko Ishida, Yumi Kuninaka, Akihiko Kimura, Naofumi Mukaida, Toshikazu Kondo
Wakayama Medical Univ.

WS28-02-O/P

Investigating the Role of CCL20 on Psoriasis and Atopic Dermatitis Using CCL20 Deficient Mice

○ Supanuch Ekronarongchai, Nozomi Sachi, Yomei Kagoshima, Yasuhiro Soga, Sotaro Ozaka, Naganori Kamiyama, Takashi Kobayashi

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

WS28-09-O/P

Soluble ST2 aggravates asthma by enhancing IL-33-mediated eosinophilic inflammation and cytokine production in ILC2s○ Pei-Chi Lo³, Yasutaka Motomura¹, Kazuyo Moro^{1,2,3}¹Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²Laboratory for Innate Immune Systems, RIKEN-IMS, ³Laboratory for Innate Immune Systems, iFReC, Osaka University

WS28-10-O/P

RNA helicase DDX6 plays a role in inflammatory diseases through the IL-6 amplifier, an enhanced activation of NF- κ B in non-immune cells

○ Shintaro Hojyo^{1,2,3}, Seiichiro Naito^{1,4}, Hiroki Tanaka¹, Jing-Jing Jiang¹, Masato Tarumi¹, Ari Hashimoto⁵, Yuki Tanaka^{1,2}, Kaoru Murakami¹, Shimpei I Kubota^{1,2}, Shigeru Hashimoto^{1,3}, Masaaki Murakami^{1,2,3,6}

¹Division of Molecular Psychoneuroimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, ²Quantum Immunology Team, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology (QST), ³Institute for Vaccine Research and Development (HU-IVReD), Hokkaido University, ⁴Department of Cardiovascular Medicine, Graduate School of Medicine, Hokkaido University, ⁵Department of Molecular Biology, Graduate School of Medicine, Hokkaido University, ⁶Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institutes of Natural Sciences

WS28-17-O/P

5,6-dimethylxanthenone-4-acetic acid (DMXAA), a Partial STING Agonist, Competes for Human STING Activation

○ Burcu Temizoz^{1,2,5}, Takayuki Shibahara³, Tomoya Hayashi^{1,2,5}, Kouji Kobiyama^{1,2,5}, Erdal Sag⁶, Atsushi Kumanogoh^{7,3}, Masahiro Yamamoto^{7,8}, Mayda Gursel⁹, Seza Ozen⁶, Etsushi Kuroda¹⁰, Cevayir Coban^{2,4,7,5}, Ken J Ishii^{1,2,7,5}

¹Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ²International Vaccine Design Center (VDesC), The Institute of Medical Science (IMSUT), The University of Tokyo, Tokyo, Japan, ³Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴Division of Malaria Immunology, Department of Microbiology and Immunology, The Institute of Medical Science (IMSUT), The University of Tokyo, Tokyo, Japan, ⁵Core Research for Evolutional Science and Technology (CREST), Japan Science and Technology Agency (JST), Tokyo, Japan, ⁶Department of Pediatric Rheumatology, Hacettepe University, Ankara, Türkiye, ⁷Immunology Frontier Research Center (IFReC), Osaka University, Osaka, Japan, ⁸Department of Immunoparasitology, Division of Infectious Disease, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁹MG Laboratory on Vaccines and Immunotherapeutics, Basic and Translational Research Program, Izmir Biomedicine and Genome Center, Izmir, Türkiye, ¹⁰Department of Immunology, School of Medicine, Hyogo Medical University, Hyogo, Japan.

WS28-18-O/P

Therapeutic effects of conditioned medium of immortalized dental pulp stem cells from human exfoliated deciduous teeth on the paclitaxel-induced peripheral neuropathy via TIMP-1

○ Miu Yamagishi, Eri Horio, Natsuki Yamaguchi, Yukito Sonoda, Satomi Miyakawa, Shinya Inoue, Fumihiro Murakami, Ning Qu, Yasuhiro Katahira, Hideaki Hasegawa, Takayuki Yoshimoto

Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, 6-1-1, Shinjuku-ku, Tokyo, Japan.

WS28-19-O/P

Role of the Microbiota-Derived Corisin in Acute Kidney Injury

○ Tomoko Anou¹, Taro Yasuma^{1,2}, Corina Gabazza¹, Chisa Inoue^{1,2}, Yuko Okano^{1,2}, Atsuro Takeshita^{1,2}, Masaaki Toda¹, Kota Nishihama², Mei Uemura², Yutaka Yano², Esteban Gabazza¹

¹Department of Immunology, Mie University Graduate School of Medicine, ²Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

WS29 Cell therapy, vaccine, and new therapeutic modality

12:50 ~ 14:05 Room H

Chairpersons: Hiroaki Ikeda, Tsukasa Nabekura

This session aims to showcase the latest breakthroughs in cancer immunotherapy, concentrating on cell-based therapies such as CAR-T, cancer vaccines, and next-generation treatment modalities like nanoparticles and drug delivery systems (DDS). Presentations will offer insights into how these innovative therapies could transform future cancer care.

WS29-01-O/P

Development of new adoptive T cell therapy that overcomes tumor heterogeneity with escape variant tumor clones

○ Kiyoshi Yasui¹, Daisuke Ehara^{1,2}, Mitsuhiro Yoneda¹, Situo Deng¹, Sachiko Okamoto³, Yasunori Amaishi³, Daisuke Muraoka⁴, Naohisa Ogo⁵, Akira Asai⁵, Hiroyuki Murota², Hiroaki Ikeda¹

¹Nagasaki Univ. Grad. Sch. of Biomed. Sci., Dept. of Oncology, ²Nagasaki Univ. Grad. Sch. of Biomed. Sci., Dept. of Dermatology, ³Tech. Development Ctr, Takara Bio Inc., ⁴Aichi Cancer Ctr. Res. Inst., Div. of Translational Oncoimmunology, ⁵Ctr. for Drug Discovery, Grad. Div. Pharm., Univ. of Shizuoka.

WS29-03-O/P

The relationship between receptor shedding and Trogocytosis

○ Atsutaka Minagawa, Shin Kaneko

Kyoto University

WS29-04-O/P

Efficient production of CAR-NK cells with a potent antitumor effect using leukocyte progenitor cells

○ Jia Han, Tsukasa Shigehiro, Shogo Tanimori, Hiroyuki Kadota, Karin Noma, Tomokatsu Ikawa
Tokyo University of Science, Research Institute for Biomedical Science

WS29-06-O/P

Imaging of biphasic signalosomes constructed by checkpoint receptor 2B4 in conventional and CAR-T cells

○ Ryohei Matsushima^{1,2}, Ei Wakamatsu¹, Hiroaki Machiyama¹, Wataru Nishi², Yosuke Yoshida^{1,3}, Tetsushi Nishikawa^{1,4}, Hiroko Toyota¹, Masae Furuhashi¹, Hitoshi Nishijima¹, Arata Takeuchi¹, Makoto Suzuki², Tadashi Yokosuka¹

¹Tokyo Medical University department of Immunology, ²Kumamoto University department of Thoracic Surgery, ³Tokyo Medical University Department of Nephrology, ⁴Tokyo Medical University Department of Dermatology

WS29-08-O/P

Breast cancer specific antigen recognition by TIL-derived MR1-restricted TCRs

○ Abdul Hayee¹, Eiji Kobayashi¹, Hiroshi Hamana², Chihiro Motozono³, Satoshi Yamaguchi¹, Ha Thi Viet My¹, Tatsuhiko Ozawa¹, Hiroyuki Kishi¹

¹Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, Japan, ²Shinobi Therapeutics Co., Ltd., Kyoto, Japan, ³Division of Infection and Immunity, Joint Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, Japan

WS29-11-O/P

Withdrawn

WS29-26-O/P

In vivo Generation of Designer antigen-presenting cells using mRNA for Cancer Immunotherapy

○ Tomoyoshi Yamano, Toan Van Le, Shota Imai, Iriya Fujitsuka, Rikinari Hanayama
Department of Immunology, Kanazawa University

WS29-28-O/P

Antitumor immunity via harnessing nano-sized membrane vesicles

○ Mirei Kataoka¹, Yusuke Ito¹, Seiichi Ohta², Yuki Kagoya¹

¹Keio University, ²The University of Tokyo

Poster

○ : Presenter

WS01 Mucosal-Skin Immunity 1

WS01-01-O/P

Cytotoxic CD4⁺ T cells eliminate senescent cells by targeting cytomegalovirus antigen

○ Tatsuya Hasegawa^{1,2,3}, Tomonori Oka^{2,3}, Heehwa G. Son^{2,3}, Valeria S. Oliver-Garcia^{2,3}, Marjan Azin^{2,3}, Thomas M. Eisenhaure⁴, David J. Lieb⁴, Nir Hacohen^{2,4}, Shadmehr Demehri^{2,3}

¹MIRAI Technology Institute, Shiseido Co., Ltd., ²Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, ³Department of Dermatology, Massachusetts General Hospital and Harvard Medical School, ⁴Broad Institute of MIT and Harvard

WS01-02-O/P

"Tyzzerella nexilis" strains enriched in mobile genetic elements accelerate multiple sclerosis progression

○ Daiki Takewaki^{1,2}, Yuya Kiguchi^{2,3}, Hiroaki Masuoka², Mallahalli Manu¹, Ben J E Raveney¹, Seiko Narushima⁴, Rina Kurokawa², Yusuke Ogata², Sachiko Miyake⁵, Wakiro Sato¹, Wataru Suda², Takashi Yamamura¹

¹Department of Immunology, National Center of Neurology and Psychiatry, ²Laboratory for Symbiotic Microbiome Sciences, RIKEN Center for Integrative Medical Sciences, ³Department of Computational Biology and Medical Sciences, The University of Tokyo, ⁴Laboratory for Mucosal Immunity, RIKEN Center for Integrative Medical Sciences, ⁵Department of Immunology, Juntendo University

WS01-03-O/P

Maternal gut microbiota induces $\gamma\delta$ T cells at the maternal-fetal interface for immunosurveillance

○ Koichiro Suzuki¹, Takahiro Yamada^{1,2}, Yusuke Kinashi¹, Seiga Komiya¹, Yuyo Ka³, Kayo Tomiyama³, Nanako Ushio-Watanabe⁴, Yoshifumi Nishikawa⁴, Koji Hase¹

¹Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University, ²Department of Immunobiology, Yale School of Medicine, ³Central Institute for Experimental Medicine and Life Science (CIEM), ⁴National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine

WS01-04-O/P

Unraveling the transcriptional Regulation of CD4⁺ T_{RM} in Crohn's Disease

○ Mitsuru Arase¹, Mari Murakami^{1,2}, Kiyoshi Takeda^{1,2}

¹Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²WPI Immunology Frontier Research Center, Osaka University

WS01-05-O/P

C. albicans*-Induced α 1, 2-fucosylation Manipulates Morphogenesis of *C. albicans

○ Daichi Mori¹, Yoshiyuki Goto^{1,2,3,4}

¹Project for Host Microbial Interactions in Symbiosis and Pathogenesis, Division of Molecular Immunology, Medical Mycology Research Center, Chiba University, ²Division of Pandemic and Post-disaster Infectious Diseases, Research Institute of Disaster Medicine, Chiba University, Chiba, ³Division of Infectious Disease Vaccine R&D, Research Institute of Disaster Medicine, Chiba University, Chiba, ⁴Chiba University, Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba

WS01-06-O/P

Mouse IgA modulates human gut microbiota with inflammatory bowel disease patients

○ Keishu Takahashi¹, Naoki Morita¹, Ryutaro Tamano¹, Peng Gao¹, Norihiro Iida², Akira Andoh³, Hirotsugu Imaeda⁴, Ken Kurokawa⁵, Mayo Tsuboi⁵, Yoku Hayakawa⁵, Mitsuhiro Fujishiro⁵, Reiko Shinkura¹

¹Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo, ²Department of Gastroenterology, Graduate School of Medical Sciences, Kanazawa University, ³Department of Medicine, Shiga University of Medical Science, ⁴Department of Gastroenterology, Nagahama City Hospital, ⁵Department of Gastroenterology, Graduate School of Medicine, The University of Tokyo

WS01-07-O/P

The Impact of Microbial Lipid Metabolism on Skin Barrier pH Homeostasis

○ Yoshihiro Ito¹, Keitaro Fukuda^{1,2}, Michiko Koizumi-Kitajima¹, Masayuki Amagai^{1,2}

¹Keio University, School of Medicine, Department of Dermatology, ²Laboratory for Skin Homeostasis, IMS, RIKEN

WS01-08-O/P

The interaction between tongue ILC2s and IL-33⁺ duct cells of von Ebner's gland accommodates barrier function against oro-mechanical damage

○ Satoshi Koga¹, Kazuyo Moro^{1,2,3}

¹Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²Laboratory for Innate Immune Systems, RIKEN-IMS, ³Laboratory for Innate Immune Systems, iFReC, Osaka University

WS01-09-P

Live *Lactobacillus paracasei* strain Shirota augments CD38⁺HLA-DR⁺ CD4⁺ T cells in peripheral mononuclear cells from healthy adults

○ Ayaka Maki, Satoshi Matsumoto, Tomoaki Naito, Tetsuji Hori

Yakult Honsha Co., Ltd.

WS01-10-P

Sublingual immune cell clusters contain both CD4⁺ and CD8⁺ T cells and are enriched for CD8⁺ T_{RM}S○ Yutaka Kusumoto¹⁾, Mayuko Hashimoto¹⁾, Takahiro Adachi²⁾, Tsuneyasu Kaisho³⁾, Michio Tomura¹⁾¹⁾Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, ²⁾Division of Precision Health, Medical Research Institute, Tokyo Medical and Dental University, ³⁾Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Graduate School of Medicine

WS01-11-P

Mother's genotype affects the large intestinal microbiome of their offspring even after weaning

○ Kaori Ito, Kota Sakurai, Jahidul Islam, Tomonori Nochi

International Education and Research Center for Food and Agricultural Immunology, Graduate School of Agricultural Science, Tohoku University

WS01-12-P

Toxic Epidermal Necrolysis Caused by Taiwanofungus camphoratus in a Psoriasis Patient○ An Ping Huo^{1,2,3)}, Cheng-Chung Wei^{1,2,3)}, Pui-Ying Leong^{1,2,3)}¹⁾Division of Allergy, Immunology and Rheumatology, Department of Internal Medicine, Chung Shan Medical University Hospital Taichung, Taiwan, ²⁾Institute of Medicine, Chung Shan Medical University, Taichung, Taiwan, ³⁾School of Medicine, Chung Shan Medical University, Taichung, Taiwan

WS01-13-P

Roles of FcγR2⁺ macrophages in CD4⁺ skin-resident memory T cells

○ Akihiko Murata, Koji Tokoyoda

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

WS01-14-P

Effects of physicochemical properties of adjuvant-antigen complexes on mucosal immune responses by intranasal immunization

○ Naoto Yoshino, Takashi Odagiri, Shizuma Ishikawa, Yasushi Muraki

Division of Infectious Diseases and Immunology, Department of Microbiology, School of Medicine, Iwate Medical University

WS01-15-P

Sublingual immunization with inactivated enterovirus A71 induced pathogen-specific mucosal and systemic protective antibody responses○ Meito Shibuya^{1,2)}, Tomonori Machita¹⁾, Tomoyuki Yamamoue¹⁾, Satoshi Koike³⁾, Kyousuke Kobayashi³⁾, Seiya Yamayoshi^{4,5)}, Hiroshi Kiyono^{1,7,8)}, Kohtaro Fujihashi^{1,6,9,10)}¹⁾Department of Human Mucosal Vaccinology, Chiba University Hospital, and Chiba University Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), Chiba University, ²⁾Vaccine R&D Laboratory, Vaccine Business Division, Shionogi & Co., Ltd.,³⁾Neurovirology Project, Department of Diseases & Infection, Tokyo Metropolitan Institute of Medical Science, ⁴⁾Div. Virology & Intern. Res. Ctr Infect. Dis., Inst. Med. Sci., and Univ. Tokyo Pandemic Prep., Infect. Adv. Res. Ctr (UTOPIA), The University of Tokyo, ⁵⁾The Research Center for Global Viral Diseases, National Center for Global Health and Medicine Research Institute, ⁶⁾Division of Infectious Disease Vaccine R&D, Research Institute of Disaster Medicine, Chiba University, ⁷⁾Chiba University-University of California San Diego Center for Mucosal Immunology, Allergy and Vaccine (CU-UCSD cMAV), Department of Medicine, School of Medicine, San Diego, CA, USA, ⁸⁾Future Medicine Education and Research Organization, Mucosal Immunology and Allergy Therapeutics, Institute for Global Prominent Research, Chiba University, ⁹⁾Division of Mucosal Vaccines, International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo, ¹⁰⁾Department of Pediatric Dentistry, The University of Alabama at Birmingham, Birmingham AL, USA

WS01-16-P

Elucidation of DC subsets in the oral cavity and T cell response after antigen sensitization on the oral cavity

○ Mayuko Hashimoto, Yutaka Kusumoto, Michio Tomura

Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University

WS01-17-P

Role of IL5 in the small intestinal inflammation in Ncx KO mice○ Yoshio Katsumata¹⁾, Lisa Fujimura²⁾, Masahiro Okamoto³⁾, Takashi Fumita¹⁾, Akemi Sakamoto^{2,4)}, Masahiko Hatano^{2,4)}¹⁾Department of Pediatric Surgery, Graduate School of Medicine, Chiba University, ²⁾Biomedical Research Center, Chiba University, ³⁾School of Medicine, Chiba University, ⁴⁾Department of Biomedical Science, Graduate School of Medicine, Chiba University

WS01-18-P

Dietary exposure to nano- and microplastics mediated regulation of acute colitisFumiya Okano¹⁾, ○ Akihito Harusato^{1,2)}, Yoshitaka Nakanishi³⁾, Masashi Kato²⁾, Yoshito Itoh¹⁾¹⁾Kyoto Prefectural University of Medicine, ²⁾Nagoya University, ³⁾Kumamoto University

WS01-19-P

Elucidating the role of archaea in the human gut microbiome○ Shohei James Asami¹⁾, Hiroaki Masuoka²⁾, Wataru Suda²⁾, Hiroshi Ohno¹⁾¹⁾RIKEN Center for Integrative Medical Sciences Laboratory for Intestinal Ecosystem, ²⁾RIKEN Center for Integrative Medical Sciences Laboratory for Human Microbiome Sciences

WS01-20-P

IL-23 secretion by keratinocytes rather than antigen presenting cells play critical role in the pathogenesis of psoriasisform dermatitis○ Yoonha Lee^{1,2)}, Daiya Ohara¹⁾, Hiroki Mukoyama¹⁾, Yusuke Takeuchi¹⁾, Hitomi Watanabe¹⁾, Gen Kondoh¹⁾, Keiji Hirota¹⁾¹⁾Institute for Life and Medical Sciences, Kyoto University, ²⁾Department of Hematology, Tohoku University Graduate School of Medicine

WS01-21-P

Elucidation of differentiation mechanisms of flu-induced M cells in the lower respiratory tract○ Kimura Shunsuke, Shingo Kawai, Takahiro Yamada, Yutaka Nakamura, Koji Hase
Faculty of Pharmacy, Keio University

December 3

WS02 Cytotoxic T cells

WS02-01-P

Single-cell transcriptome analysis unveils a distinctive subpopulation of CD8 T cells expressing PRDM1 in Kawasaki disease patients with coronary artery lesions○ Ho-Chang Kuo^{1,2)}¹⁾Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan., ²⁾Kawasaki Disease Center, Taiwan

WS02-02-P

CD8-dependent contact hyper sensitivity is regulated by Themis

○ Masayuki Kitajima, Toshiyuki Okada, Harumi Suzuki

Dept. of Immunology and Pathology, Research Institute National Center for Global Health and Medicine

WS02-03-O/P

The transcription factor BATF pioneers the effector differentiation of CD8⁺ T cells through direct interaction with IRF4○ Sotaro Fujisawa¹⁾, Yamato Tanabe¹⁾, Toshikatsu Tamai¹⁾, Junko Kurachi¹⁾, Miki Koura¹⁾, Yusuke Miyanari²⁾, Makoto Kurachi¹⁾¹⁾Department of Molecular genetics, Faculty of Medical Sciences, Kanazawa University, ²⁾WPI Nano Life Science Institute, Kanazawa University

WS02-04-O/P

Fate inflexibility of virtual memory CD8 T cells during chronic infection○ Yamato Sajiki¹⁾, Koichi Araki^{1,2)}¹⁾Division of Infectious Diseases, Center for Inflammation and Tolerance, Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA,²⁾Department of Pediatrics, University of Cincinnati College of Medicine, Cincinnati, Ohio, USA

WS02-05-P

The Arf pathway is required for the survival of CD8⁺ T cells stimulated with strong TCR signal○ Mami Sumiyoshi¹⁾, Yoichi Maekawa^{2,3)}, Satoshi Matsuda¹⁾¹⁾Dept of Cell Signaling, Inst. of Biomed. Sci., Kansai Med.Univ., ²⁾Dept. of Pathol. & Infectious Diseases, Gifu Univ., ³⁾G-CHAIN, Gifu Univ.

WS02-06-O/P

Efficient inhibition of DNAM-1 clustering via sequestering CD155 from DNAM-1-TCR microclusters by CD96 with height

○ Ei Wakamatsu, Ann Hattori, Hiroaki Machiyama, Hiroko Toyota, Masae Furuhashi, Ryuji Hashimoto, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka

Tokyo Medical Univ.

WS02-07-P

Glycolysis in CD8⁺ T cells plays a major role in the onset of immune-mediated HLA-related idiosyncratic drug-induced toxicity○ Takeshi Susukida¹⁾, Yuchen Sun²⁾, Noriaki Arakawa²⁾, Takuya Hirao³⁾, Shigeki Aoki⁴⁾, Kousei Ito⁴⁾, Yoshihiro Hayakawa¹⁾¹⁾Laboratory of Cancer Biology and Immunology, Section of Host Defenses, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, ²⁾Division of Medicinal Safety Science, National Institute of Health Sciences, ³⁾Divisions of Clinical Pharmacokinetics, Department of Pharmaceutical Sciences, International University of Health and Welfare, ⁴⁾Laboratory of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University

WS02-08-P

Chemically-Defined, Animal-Origin Free Medium for hPSC derived CD8 T Cell Differentiation

○ Jessica Chang, Yasuyuki Kita, Hirotaka Wagatsuma

Ajinomoto Co., Inc

WS02-09-O/P

Dysfunctional Mitochondria Promote DNA Damage and T Cell Exhaustion in CD8⁺ T Cells○ Kung-Chi Kao^{1,2)}, Yu-Ming Chuang^{1,2)}, Yi-Ru Yu³⁾, Bugi Ratno Budiarto⁴⁾, Shih-Yu Chen⁴⁾, Ping-Chih Ho^{1,2)}¹⁾University of Lausanne, ²⁾Ludwig Institute for Cancer Research, ³⁾Pilatus Biosciences, ⁴⁾Academia Sinica

WS02-10-P

Strategic regulation of T cell exhaustion by vitamin D via alternative splicing○ Mayumi Mori¹⁾, Taro Tsujimura²⁾, Takuya Yamamoto^{2,3,4)}, Yo-ichi Nabeshima¹⁾¹⁾Graduate School of Medicine, Kyoto University, ²⁾Institute for the Advanced Study of Human Biology (WPI-ASHBi), Kyoto University, ³⁾Center for IPS Cell Research and Application (CiRA), Kyoto University, ⁴⁾Medical-Risk Avoidance based on iPS Cells Team, RIKEN Center for Advanced Intelligence Project (AIP)

WS02-11-P

Sustainability of memory CD8⁺ T cell upon repetitive antigen stimulation

○ Yamato Tanabe, Makoto Kurachi, Sotaro Fujisawa

Department of Molecular Genetics, Kanazawa University

WS02-12-O/P

Vitamin C treatment enhances the immune responses of CD8⁺ T cells by upregulation of *Batf3*○ Kenta Kondo¹⁾, Mina Kumode^{1,2)}, Koji Terada¹⁾, Yasutoshi Agata¹⁾¹⁾Department of Biochemistry and Molecular Biology, Shiga University of Medical Science, ²⁾Department of Hepatology, Shiga University of Medical Science

WS02-13-O/P

Identification of human CD8⁺ T cells recognizing viral lipopeptides○ Minoru Asa^{1,2)}, Sho Yamasaki^{1,2,3)}¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (iFReC), Osaka University, ³⁾Center for Infectious Disease Education and Research (CiDER), Osaka University

WS02-14-P

Examination to reveal mechanisms for suppression of cytotoxic T lymphocyte activation by target cells○ Hidefumi Kojima¹⁾, Yuji Nakai²⁾¹⁾Division for Technical Support, Center for Research Collaboration and Support, Dokkyo Medical Univ. Sch. of Med., ²⁾Section of Food Sciences, Institute of Regional Innovation, Hirosaki University

WS02-15-P

Elucidation of the functional sites of Nkg7 in its cellular localization and the release of cytotoxic granules

○ Ryosuke Kumagai, Hiroaki Takimoto, Koji Eshima

Division of Immunology, Kitasato University Graduate School of Science

WS02-16-O/P

Histone deacetylase 1 controls the generation and maintenance of effector-like CD8⁺ T cells during chronic viral infectionRamona Rica¹⁾, Monika Waldherr¹⁾, Marlene Schüle¹⁾, Emi Miyakoda¹⁾, Thomas Krausgruber²⁾, Christoph Bock^{2,3)}, Nicole Boucheron¹⁾, Wilfried Ellmeier¹⁾, ○ Shinya Sakaguchi¹⁾¹⁾Medical University of Vienna, Center for Pathophysiology, Infectiology and Immunology, Institute of Immunology, Division of Immunobiology, ²⁾CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences, ³⁾Medical University of Vienna, Center for Medical Data Science, Institute of Artificial Intelligence

December 3

WS03 In vivo model and new cancer immunotherapy

WS03-01-O/P

LAG-3 blockade reactivates the CD8⁺ T cell expansion program to re-expand contracted clones in the tumor○ Munetomo Takahashi¹⁾, Mikiya Tsunoda²⁾, Shigeyuki Shichino²⁾, Shumpei Ishikawa¹⁾, Kouji Matsushima²⁾, Satoshi Ueha²⁾¹⁾Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, ²⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS03-02-P

A novel biparatopic TIM-3 antibody induces superior antitumor effects through multi-ligand blockade○ Kanto Nakajima¹⁾, Yuji Mishima¹⁾, Motoya Mie¹⁾, Norihiro Nakamura¹⁾, Junichiro Yuda²⁾¹⁾BrightPath Biotherapeutics Co., Ltd., ²⁾Department of Hematology and Experimental Therapeutics, National Cancer Center Hospital East

Combination therapy of proton beam irradiation and PD-L1 inhibitor induced an immune response in murine models of pancreatic cancer

○ Tuyen Thuy Bich Ho¹⁾, Alessandro Nasti¹⁾, Akihiro Seki²⁾, Yoshio Sakai²⁾, Kosuke Satomura³⁾, Kyo Kume⁴⁾, Munetoshi Maeda⁴⁾, Hiroyasu Tamamura⁵⁾, Makoto Sasaki⁵⁾, Kazutaka Yamamoto⁵⁾, Taro Yamashita^{2,3)}, Shuichi Kaneko^{1,2,3)}

¹⁾Information-Based Medicine Development, Graduate School of Medical Sciences, Kanazawa University, ²⁾Department of Gastroenterology, Kanazawa University Hospital, ³⁾System biology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, ⁴⁾Proton Medical Research Division, Research & Development Department, The Wakasa Wan Energy Research Center, ⁵⁾Proton Therapy Center, Fukui Prefectural Hospital

Trastuzumab Deruxtecan (T-Dxd), the novel HER2 Antibody-drug-conjugates regulates anti-tumor activity against HER2+ CCA via multiple mechanisms

○ Prin Sungwan¹⁾, Jutatip Panaampon^{1,2)}, Seiji Okada¹⁾

¹⁾Division of Hematopoiesis, Joint Research Center for Human Retrovirus Infection & Graduate School of Medical Sciences, Kumamoto University, Japan, ²⁾Division of Hematologic Neoplasia, Dept. of Med. Oncology, Dana-Farber Cancer Inst., Harvard Med. Sch., 450 Brookline Avenue, Boston, Massachusetts (MA), 02215, USA

Analysis of the combination effects of cytotoxic chemotherapy and PD-1 blockade therapy using PD-1 fate-tracer mice

○ Ayuko Yamaguchi^{1,2)}, Haruka Suzuki^{1,2)}, Megumi Tatematsu¹⁾, Shunsuke Takasuga¹⁾, Akane Fuchimukai¹⁾, Takashi Ebihara^{1,3)}

¹⁾Department of Microbiology, Akita University Graduate School of Medicine, ²⁾Department of Thoracic Surgery, Akita University Graduate School of Medicine, ³⁾Center for Integrated Control, Epidemiology and Molecular Pathophysiology of Infectious Diseases, Akita University

PQDN improves CD8⁺ T cell metabolism by mitochondrial tuning resulting in improved cancer immunotherapy

○ Huimin Sun¹⁾, Yosuke Dotsu¹⁾, Daisuke Muraoka^{1,2)}, Daisuke Kato⁴⁾, Naohisa Ogo³⁾, Yudai Sonoda³⁾, Situo Deng¹⁾, Kiyoshi Yasui¹⁾, Mitsuhiro Yoneda¹⁾, Hiromu Kondo⁴⁾, Akira Asai³⁾, Hiroaki Ikeda¹⁾

¹⁾Department of Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan, ²⁾Division of Translational Oncoimmunology, Aichi Cancer Research Institute, Nagoya, Japan, ³⁾Center for Drug Discovery, Graduate School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan, ⁴⁾Department of Pharmaceutical Engineering and Drug Delivery Science, School of Pharmaceutical Sciences, University of Shizuoka, Shizuoka, Japan

Robust pancreatic tumor suppression by a novel combination treatment with anti-PD-1 immune checkpoint antibody and stroma modifying RNA oligonucleotide STNM01 in mice

○ Juanjuan Ye^{1,2)}, Futoshi Suizu¹⁾, Keiko Yamakawa¹⁾, Yuri Mukai¹⁾, Akira Nishiyama²⁾, Hiroyuki Yoneyama³⁾, Takayoshi Tsuchiya⁴⁾, Motohiko Kato⁵⁾, Naohisa Yahagi⁶⁾, Kyuichi Kadota¹⁾

¹⁾Molecular Oncologic Pathology, Department of Pathology and Host-Defense, Faculty of Medicine, Kagawa University, ²⁾Pharmacology, Department of Morphological and Functional Medicine, Faculty of Medicine, Kagawa University, Kita-gun, Kagawa, Japan, ³⁾TME Therapeutics Inc. Minato-ku, Tokyo, Japan, ⁴⁾Tokyo Medical University, Shinjuku-ku, Tokyo, Japan, ⁵⁾Center for Diagnostic and Therapeutic Endoscopy, Keio University School of Medicine, Shinjuku-ku, Tokyo, Japan, ⁶⁾Division of Research and Development for Minimally Invasive Treatment, Cancer Center, Keio University School of Medicine, Shinjuku-ku, Tokyo, Japan

Cystatin A enhances CD4⁺ T cells and M1 macrophages antitumor activity in murine models of pancreatic cancer

○ Alessandro Nasti¹⁾, Shingo Inagaki²⁾, Tuyen Thuy Bich Ho¹⁾, Akihiro Seki³⁾, Keiko Yoshida²⁾, Kosuke Satomura²⁾, Taro Yamashita^{2,3)}, Yoshio Sakai²⁾, Shuichi Kaneko^{1,2,3)}

¹⁾Information-Based Medicine Development, Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Japan, ²⁾System biology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, Kanazawa, Japan, ³⁾Department of Gastroenterology, Kanazawa University Hospital, Kanazawa, Japan

Immune checkpoint inhibitory activity of *Hericium erinaceus* mycelia obtained from liquid media using food by-products

○ Hajime Kobori^{1,2)}, Taro Yasuma³⁾, Masaaki Toda³⁾, Kazuhiko Masuno⁴⁾, Hirokazu Kawagishi^{2,5)}, Corina N. D'Alessandro-Gabazza³⁾, Esteban C. Gabazza³⁾

¹⁾Iwade Research Institute of Mycology Co., Ltd, ²⁾Research Institute for Mushroom Science, Shizuoka University, ³⁾Department of Immunology, Mie University School of Medicine, ⁴⁾Nagano Prefecture General Forest Research Center, ⁵⁾Faculty of Agriculture, Shizuoka University

WS03-10-O/P

Synergistic Effects of Immune Checkpoint Inhibition Therapy with Lactobacillus Metabolites○ Takumi Iwasawa^{1,2,3}, Suguru Yamauchi⁴, Tomoaki Ito^{3,5}, Kazunori Kato^{1,2}¹Inst. of Life Innova. Stu., Toyo Univ., ²Grad. Sch Heal. & Sports Sci., Toyo Univ., ³Shizuoka Med. Res. Center for Disast., Juntendo Univ.,⁴Dept. Surg., Johns Hopkins Univ., ⁵Dept. Surg., Shizuoka Hospital, Juntendo Univ.

WS03-11-O/P

Complete humanization of MHC region in mouse○ Teruhiko Suzuki¹, Mana Yamakawa¹, Saki An¹, Hiroko Yanagisawa¹, Yasuhiro Kazuki^{2,3,4,5}, Mitsuo Oshimura², Eiji Mizutani⁶, Takahiko Hara^{1,7,8}¹Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., ²CERC, Tottori Univ., ³Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ., ⁴Chr. Eng. Group, ExCELLS., ⁵Sch. of Life Sci., Facul. of Med., Tottori Univ., ⁶Institute of Medicine, University of Tsukuba, ⁷Grad. Sch., Tokyo Med. Dent. Univ., ⁸Grad. Sch., Tokyo Metropol. Univ.

WS03-12-P

An attempt for generation of homozygous MHC humanized cells and mice○ Yuka Egawa^{1,2}, Mana Yamakawa¹, Saki An¹, Hiroko Yanagisawa¹, Yasuhiro Kazuki^{3,4,5,6}, Mitsuo Oshimura³, Takahiko Hara^{1,2,7}, Teruhiko Suzuki¹, Eiji Mizutani⁸¹Stem Cell Proj., Tokyo Metropol. Inst. Med. Sci., ²Grad. Sch., Tokyo Metropol. Univ., ³CERC, Tottori Univ., ⁴Div. of Chr. Biomed. Eng., Grad. Sch. of Med. Sci., Tottori Univ., ⁵Chr. Eng. Group, ExCELLS., ⁶Sch. of Life Sci., Facul. of Med., Tottori Univ., ⁷Grad. Sch., Tokyo Med. Dent. Univ., ⁸Institute of Medicine, University of Tsukuba

WS03-13-O/P

Anti-tumor effect of a human SIRPα antibody targeting human macrophages in a humanized mouse model○ Tania Afroji¹, Satomi Komori¹, Ikumi Katano², Takeshi Takahashi², Takenori Kotani¹, Yoji Murata¹, Takashi Matozaki¹, Yasuyuki Saito¹¹Kobe University Graduate School of Medicine, ²Central Institute for Experimental Animals, Kawasaki, Japan

WS03-14-P

Establishment of Inducible Disruption of Bioactive Lipid Receptors on Neutrophils Using an *In Vivo* Degron System○ Kiyokazu Kakugawa¹, Priyanka Saminathan², Ian Mathews^{2,4}, Loutje Van Der Sman², Maija Corey², Mohit Jain^{3,4}, Sonia Sharma^{1,2}¹Laboratory for inflammatory Immune Metabolism, RIKEN-IMS, Yokohohama, Japan, ²La Jolla Institute for Immunology, La Jolla, CA 92037,³Sapient Bioanalytics, San Diego CA 92121, ⁴Department of Medicine, University of California San Diego, La Jolla CA 92093

WS03-15-P

Intravital visualization of immune cell responses after anticancer small molecule drug treatment

○ Junyoung Park, Hyunseok Kim, Hyungjin Kwon

IVIM Technology

December 3

WS04 Innate Immunity (I) Innate inflammation and disease

WS04-01-P

Soluble form of the MDA5 protein in human sera

○ Tomoaki Hoshino

Department of Medicine 1, Kurume University School of Medicine

WS04-02-O/P

Nucleolar dysfunction leads to the XPG-dependent generation of RNA-DNA hybrids, which prime the innate immune response underlying ribosomal diseases via the cGAS-STING pathway

○ Ken Takashima, Hiroyuki Oshiumi

Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Science, Kumamoto University

WS04-03-P

Immunomodulatory activity of a water-soluble crude extracts obtained from *Coix lacryma-jobi* var. *ma-yuen* on immune cells○ Susumu Tomono¹, Masaaki Yoshida², Yinzhi Lin¹, Sachiko Akashi-Takamura¹¹Department of Microbiology and Immunology, School of Medicine, Aichi Medical University, ²Kotaro pharmaceutical Co., Ltd

WS04-04-P

Impact of cholic acid on the development of iHFC diet-induced MASH in mice○ Kana Goto¹, Yukihiko Furusawa¹, Koichi Tsuneyama², Yoshinori Nagai¹¹Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²Department of Pathology and Laboratory Medicine, Tokushima University Graduate School

WS04-05-P

Impact of iHFC diet on pathological changes of type 2 diabetes and MASH in type 2 diabetic TSOD mice○ Miyuna Kato¹⁾, Yukihiro Furusawa¹⁾, Koichi Tsuneyama²⁾, Yoshinori Nagai¹⁾¹⁾Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²⁾Department of Pathology and Laboratory Medicine, Tokushima University Graduate School

WS04-06-P

RNaseT2-deficiency promotes TLR13-dependent replenishment of tissue-protective Kupffer cells○ Ryota Sato¹⁾, Kaiwen Liu¹⁾, Takuma Shibata¹⁾, Ryutaro Fukui¹⁾, Yuji Motoi¹⁾, Toshikazu Kondo²⁾, Toru Miyazaki³⁾, Tsuneyasu Kaisho⁴⁾, Kensuke Miyake¹⁾¹⁾Division of Innate Immunity, The Institute of Medical Science, The University of Tokyo, ²⁾Department of Forensic, Wakayama Medical University, ³⁾The Institute for AIM Medicine, ⁴⁾Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University

WS04-07-O/P

The role of small neutral amino acid transport in macrophage metabolic reprogramming during inflammation○ Shota Yasukura¹⁾, Masanori Yoshinaga¹⁾, Michael C Bassik²⁾, Osamu Takeuchi¹⁾¹⁾Department of Medical Chemistry Graduate School of Medicine, Kyoto University, ²⁾Department of Genetics, Bassik Lab, Stanford University School of Medicine, Stanford CA, USA

WS04-08-P

Role of Nuclear factor- κ B in NLRC5-mediated MHC class I gene expression○ Zufang Wu¹⁾, Tsutomu Tanaka¹⁾, Xin Sun¹⁾, Ning An¹⁾, Koichi S Kobayashi^{1,2,3)}¹⁾Department of Immunology, Hokkaido University Graduate School of Medicine, ²⁾Department of Microbial Pathogenesis and Immunology, ³⁾Hokkaido University Institute for Vaccine Research and Development

WS04-09-O/P

Low-level Endotoxin Preconditioning after Burn Injury Significantly Improves Survival Rate in Mouse Sepsis Model○ Bradley M. Kearney^{1,2)}, Hiroyuki Nakashima¹⁾, Masahiro Nakashima¹⁾, Hiromi Miyazaki¹⁾, Kohei Yamada¹⁾, Kazuma Mori¹⁾, Azusa Kato¹⁾, Takeshi Ono¹⁾, Hiroyasu Goto¹⁾, Ryohei Suematsu¹⁾, Manabu Kinoshita¹⁾¹⁾National Defense Medical College, ²⁾US Army Japan Engineer and Scientist Exchange Program

WS04-10-P

Wdfy4 is indispensable for the development of TLR7-induced lethal hepatitis model○ Yusuke Murakami¹⁾, Ryutaro Fukui²⁾, Tomoya Narita¹⁾, Reika Tanaka²⁾, Kosuke Zenke¹⁾, Masashi Muroi¹⁾, Keiki Kumano¹⁾, Kensuke Miyake²⁾¹⁾Musashino University, ²⁾The University of Tokyo

WS04-11-P

The cytokine component Epstein-Barr virus induced 3 attributes to TLR7-mediated splenomegaly and bicytopenia○ Masanori Iseki¹⁾, Yuma Sakamoto¹⁾, Daiki Takezaki^{1,2)}, Yoshihiro Matsuda^{1,2)}, Mariko Inoue³⁾, Shin Morizane²⁾, Tomoyuki Mukai¹⁾¹⁾Department of Immunology and Molecular Genetics, Kawasaki Medical School, ²⁾Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ³⁾Medical Bioresource Research Unit, Central Research Institute, Kawasaki Medical School

WS04-12-P

Fibrinogen induces inflammatory responses via the immune activating receptor LILRA2○ Yifan Li^{1,2)}, Kouyuki Hirayasu^{1,2)}, Gen Hasegawa^{1,2)}, Yosei Tomita^{1,2)}, Yuko Hashikawa^{1,2,3)}, Ryosuke Hiwa⁴⁾, Hisashi Arase^{5,6,7,8)}, Rikinari Hanayama^{2,3)}¹⁾Department of Evolutionary Immunology, Advanced Preventive Medical Sciences Research Center, Kanazawa University, Kanazawa, Ishikawa 920-8640, Japan, ²⁾Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, Kanazawa, Ishikawa 920-8640, Japan, ³⁾WPI Nano Life Science Institute (NanoLSI), Kanazawa University, Kanazawa, Ishikawa 920-1192, Japan, ⁴⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto 606-8501, Japan, ⁵⁾Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Suita, Osaka 565-0871, Japan, ⁶⁾Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Suita, Osaka 565-0871, Japan, ⁷⁾Center for advanced modalities and DDS, Osaka University, Osaka, 565-0871, Japan, ⁸⁾Center for Infectious Disease Education and Research, Osaka University, Osaka, 565-0871, Japan

WS04-13-P

Enhancement of adjuvant activity of phosphodiester-linked IFN- α -inducible CpG oligonucleotide G9.1 in combination with protein○ Jun-ichi Maeyama¹⁾, Fumiko Suzuki²⁾, Sumiko Iho³⁾, Yuriko Ozeki⁴⁾, Sohkichi Matsumoto⁴⁾, Saburo Yamamoto¹⁾¹⁾National Institute of Infectious Diseases, ²⁾Faculty of Medical Sciences, University of Fukui, ³⁾Louis Pasteur Center for Medical Research, ⁴⁾School of Medicine, Niigata University

WS04-14-O/P

K3-SPG-mediated long-term protection against viral infection

○ Asuka Joy Tobuse¹⁾, Kouji Kobiyama^{1,2)}, Jun Tsuchida¹⁾, Teppei Hara¹⁾, Yaeko Nakajima-Takagi⁴⁾, Motohiko Oshima⁴⁾, Tomoya Hayashi¹⁾, Burcu Temizoz¹⁾, Hideo Negishi¹⁾, Yasuhiro Yasutomi³⁾, Atsushi Iwama⁴⁾, Ken J Ishii^{1,2)}

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WS04-15-O/P

Structural insights into the IgM-CD5L complex and its impact on resolution of inflammation through DAMPs recognition

○ Satoko Arai, Toru Miyazaki

The Institute for AIM Medicine

WS04-16-O/P

Tissue-specialized alveolar fibroblasts adopt multiple molecular states to regulate innate immunity after lung injury

○ Tatsuya Tsukui, Paul J Wolters, Dean Sheppard

Division of Pulmonary, Critical Care, Allergy and Sleep Medicine, Department of Medicine, University of California, San Francisco

WS04-17-O/P

Myd88/Trif signaling is necessary for neurological recovery after stroke

○ Ryuki Koyama, Shichita Takashi, Jun Tsuyama

Tokyo Medical and Dental University Medical Research Institute Department of Neuroinflammation and Repair

WS04-18-O/P

Anti-amyloid-beta antibody restores the post-stroke neural reparative function impaired by amyloid-beta pathology

○ Kento Otani^{1,2)}, Eri Tanaka^{1,2)}, Koji Hase²⁾, Takashi Saito³⁾, Takashi Shichita¹⁾

¹⁾Department of Neuroinflammation and Repair, Medical Research Institute, Tokyo Medical and Dental University, ²⁾Department of Biochemistry, Graduate School of Pharmaceutical Sciences, Keio University, ³⁾Department of Neurocognitive Science, Institute of Brain Science, Graduate School of Medical Sciences, Nagoya City University

WS04-19-P

Adjunctive treatment of mitochondrial uncoupler BAM15 attenuates sepsis-related acute lung injury partly through the reduction of neutrophil inflammation

○ Kritsanawan Sae-khow, Awirut Charoensappakit, Asada Leelahavanichkul

Center of Excellence on Translational Research in Inflammation and Immunology (CETRII), Faculty of Medicines, Chulalongkorn University, Bangkok 10330, Thailand

WS04-20-P

Citrullinated histone H3 as a potential biomarker for monitoring intubated patients with sepsis-related acute respiratory distress syndrome

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December 3

WS05 Allergy

WS05-01-P

The inhibitory effect of butyrate and propionate on IgE-dependent basophil activation by inhibiting HDAC activity

○ Junichi Kashiwakura¹⁾, Misaki Tsutsui¹⁾, Itsuki Takaya¹⁾, Mizuki Uesaka¹⁾, Tadashi Matsuda²⁾

¹⁾Hokkaido Univ. Sci., ²⁾Hokkaido Univ.

WS05-02-P

Anti-inflammatory effects of ferulic acid derivative R16 from *Oenanthe javanica*

○ Eri Isowaki¹⁾, Kuninobu Negishi¹⁾, Yuto Nakata²⁾, Takahide Kaneko¹⁾, Hayato Sato¹⁾, Tatsuo Katagiri³⁾, Wataru Ouchi⁴⁾, Toshihiro Murata⁴⁾

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WS05-03-P

Humanized Fabs against human IgE Cε2 remove IgE and suppress anaphylactic reactions

○ Hexing Wang^{1,2,3}, Tomoaki Ando¹, Toshiaki Maruyama⁴, CJ Okumura⁴, Kumi Izawa¹, Ayako Kaitani¹, Akie Maehara¹, Nobuhiro Nakano¹, Ko Okumura¹, Jiro Kitaura^{1,3}

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WS05-04-P

Direct exposure of Cry j 1 to nano-sized electrostatic atomized water particles (NEAWPs) significantly reduces the allergenicity in dendritic cell and T cell

○ Sasa Iwamatsu¹, Mao Kaneki², Chiharu Ohira², Yasuhiro Komura¹, Yohei Ishigami¹, Megumi Yoshida³, Saburo Saito³, Masahiro Sakaguchi³, Tomoki Fukuyama²

¹Panasonic Corporation, ²Azabu University, ³ITEA Inc.

WS05-05-P

Expression pattern of Leukocyte Immunoglobulin-Like Receptor B in Eosinophilic Chronic Rhinosinusitis

○ Yusuke Nouchi^{1,2}, Yuji Takeda¹, Shinichi Saitoh¹, Akemi Araki¹, Risako Yamaguchi^{1,3}, Yusuke Suzuki², Makoto Chiba², Yui Kawai², Chihiro Watanabe², Tsukasa Ito², Hironobu Asao¹

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WS05-06-P

Role of IL-33 in the sneezing of allergic rhinitis

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WS05-07-O/P

Role of Sox4 in IL-10-producing lung regulatory T cells

○ Hayashi Yuki¹, Akira Suto¹, Kensuke Suga^{1,2}, Takahiro Kageyama¹, Takashi Ito¹, Kazuyuki Meguro¹, Shigeru Tanaka¹, Taro Iwamoto¹, Arifumi Iwata¹, Shunsuke Furuta¹, Kotaro Suzuki¹, Hiroshi Nakajima¹

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WS05-08-O/P

Crosstalk of innate and adaptive immune responses in laundry detergents-induced antigen-specific eosinophilic airway inflammation

○ Naoko Nagano¹, Kyoko Saito¹, Keisuke Orimo¹, Masato Tamari¹, Kenichiro Motomura¹, Susumu Nakae², Hideaki Morita^{1,3}, Kenji Matsumoto¹

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WS05-09-O/P

Serotonin-producing mast cells suppress ILC2 activation in asthmatic inflammation

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WS05-10-O/P

Efficacy of anti-IL-4Rα in modulating cellular responses in asthma of various endotypes

○ Hinami Kawahata¹, Takuya Yashiro¹, Yasutaka Motomura¹, Kazuyo Moro^{1,2,3}

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WS05-11-O/P

TRPV1-positive vagal sensory neurons suppress eosinophilic lung inflammation through the neuron-intrinsic JAK1-CGRP beta axis

○ Masato Tamari¹, Kenichiro Motomura¹, Hideaki Morita^{1,2}, Kenji Matsumoto¹

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WS05-12-P

Hyaluronic acid enhances the effect of allergen-specific sublingual immunotherapy in a mouse model of mite-induced chronic asthma

○ Shigeki Katoh^{1,2}, Hitomi Ikegami-Tanaka², Toru Oga²

¹Department of General Medicine, Kawasaki Medical School, ²Department of respiratory Medicine, Kawasaki Medical School

WS05-13-P	<p>Direct exposure to nano-sized electrostatic atomized water particles (NEAWPs) significantly reduces the allergenicity of <i>dermatophagoides pteronyssinus</i> in bronchial epithelium and dendritic cells</p> <p>○ Tomoki Fukuyama¹⁾, Sasa Iwamatsu²⁾, Mao Kaneki¹⁾, Chiharu Ohira¹⁾, Yasuhiro Komura²⁾, Yohei Ishigami²⁾</p> <p>¹⁾Azabu University, ²⁾Panasonic Corporation</p>
WS05-14-P	<p>Effect of a cyclin-dependent kinase 4/6 inhibitor on development of lung fibrosis in severe asthma model of mice</p> <p>○ Masaya Matsuda, Emi Ishizu, Yuna Fujiwara, Hayato Shimora, Takeshi Nabe</p> <p>Lab. of Immunopharmacol., Fac. of Pharm. Sci., Setsunan Univ.</p>
WS05-15-P	<p>Suppression of allergic reaction in activated mast cells by diazinon</p> <p>○ Hina Kawashima, Miyoko Matsushima, Sayaka Takagi, Fuzuki Hayashi, Nanami Yoshida, Shino Ando, Yuzuki Matsuda, Tsutomu Kawabe</p> <p>Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System</p>
WS05-16-P	<p>Possible involvement of myofibroblasts expressing an anti-apoptotic factor Bcl-xL in the steroid resistant asthma</p> <p>○ Hayato Shimora¹⁾, Hiroto Maeyama¹⁾, Ryunosuke Tanioka¹⁾, Yuichiro Kaibori²⁾, Nobuyuki Yamagishi²⁾, Masaya Matsuda¹⁾, Takeshi Nabe¹⁾</p> <p>¹⁾Laboratory of Immunopharmacology, Faculty of Pharmaceutical Sciences, Setsunan University, ²⁾Laboratory of Analytics for Biomolecules, Faculty of Pharmaceutical Science, Setsunan University</p>
WS05-17-P	<p>Preventive mechanism of peanut allergy induced by oral mucosal allergen administration in mice</p> <p>○ Yuya Yoshida¹⁾, Yuzuki Konno¹⁾, Ryohei Shibao¹⁾, Hikaru Fuchita¹⁾, Norihisa Mikami²⁾, Hirohito Kita^{3,4)}, Takumi Tsuji¹⁾</p> <p>¹⁾Department of Pathological Biochemistry, Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan, ²⁾Department of Experimental Immunology, Immunology Frontier Research Center, Osaka University, Suita, Osaka, Japan, ³⁾Division of Allergy, Asthma and Clinical Immunology, and Department of Medicine, Mayo Clinic Arizona, Scottsdale, AZ, USA, ⁴⁾Department of Immunology, Mayo Clinic Rochester, Rochester, MN, USA</p>
WS05-18-O/P	<p>Pathogenic memory T_H2 cells exacerbate esophageal fibrosis of eosinophilic esophagitis by amphiregulin production</p> <p>○ Chiaki Iwamura, Tatsuya Kaneko, Kiyoshi Hirahara</p> <p>Dept of Immunology, Graduate School of Medicine, Chiba University</p>
WS05-19-O/P	<p>Antigen-presenting cell function of mucosal mast cells is involved in the development of intestinal mast cell hyperplasia in IgE-mediated food allergy</p> <p>○ Nobuhiro Nakano¹⁾, Kenji Oishi²⁾, Toshiyuki Yoneyama²⁾, Eisuke Inage²⁾, Takahiro Kudo²⁾, Yoshikazu Ohtsuka²⁾, Jiro Kitaura¹⁾, Toshiaki Shimizu^{1,2)}, Ko Okumura¹⁾</p> <p>¹⁾Atopy (Allergy) Research Center, Juntendo Univ., ²⁾Department of Pediatrics and Adolescent Medicine, Juntendo Univ.</p>
WS05-20-P	<p>Low-dose heparin calcium inhibits cleavage of caspase-1, caspase-11, IL-33, and gasdermin D in intestinal epithelial cells</p> <p>○ Ayako Wakabayashi¹⁾, Atsuko Owaki¹⁾, Etsuko Toda^{2,3)}, Yasuyuki Negishi¹⁾, Rimpei Morita¹⁾</p> <p>¹⁾Department of Microbiology and Immunology, Nippon Medical School, ²⁾Laboratory for Morphological and Biomolecular Imaging, Nippon Medical School, ³⁾Department of Analytic Human Pathology, Nippon Medical School</p>
WS05-21-P	<p>Suppression of food allergy by highly purified mesenchymal stem cells</p> <p>○ Sora Osakada¹⁾, Rintaro Yoshikawa¹⁾, Takashi Suyama²⁾, Hiromi Miyauchi²⁾, Yumi Matsuzaki^{1,2)}</p> <p>¹⁾Shimane University, Faculty of Medicine, ²⁾PuREC Co., Ltd.</p>
WS05-22-P	<p>Effects of oral exposure to titanium dioxide nanomaterials in a mouse model of food allergy</p> <p>○ Norimasa Tamehiro, Reiko Adachi, Chie Taguchi, Kumiko Ogawa, Norihito Shibata</p> <p>National Institute of Health Sciences</p>
WS05-23-P	<p><i>Lactococcus lactis</i> KF140 ameliorate the symptoms of food allergy and atopic dermatitis by suppressing Th2 responses</p> <p>○ Hee Soon Shin^{1,2)}, So-Young Lee^{1,2)}, Gun-Dong Kim¹⁾</p> <p>¹⁾Korea Food Research Institute, ²⁾University of Science and Technology</p>

WS05-24-O/P

IL-33 primes mast cells to respond to Piezo1 stimulation, leading to degranulation

○ Yoshiaki Kobayashi^{1,2)}, Kent Sakai³⁾, Daiki Nakagomi²⁾, Atsuhito Nakao^{1,3)}

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WS05-25-P

Antigen protease activity on intact or tape-stripped skin induces acute itch and T helper sensitization leading to airway eosinophilia in mice

○ Seiji Kamijo¹⁾, Toru Kimitsu²⁾, Tomoko Yoshimura²⁾, Yurie Masutani²⁾, Keiko Takada²⁾, Shigaku Ikeda^{1,2)}, Hideoki Ogawa^{1,2)}, Ko Okumura¹⁾, Toshiro Takai¹⁾

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WS05-26-P

Anti-inflammatory Activity of Cytokine Interleukin-38 on Skin Inflammation of Atopic Dermatitis

○ Katie Ching-Yau Wong¹⁾, Ting-Fan Leung²⁾, Chun-Kwok Wong^{1,3)}

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WS05-27-P

Psychological Stress Enhances Itch in Atopic Dermatitis via Sensory Nerve Sensitization Independent of Mast Cells

○ Kei Nagao^{1,2)}, Soichiro Yoshikawa¹⁾, Ryota Hashimoto³⁾, Toshiro Takai⁴⁾, Sumika Toyama¹⁾, Mitsutoshi Tominaga¹⁾, Kenji Takamori^{1,5)}

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WS05-28-P

Stress-experienced monocytes/macrophages lose their anti-inflammatory function via $\beta 2$ -adrenergic receptor in skin allergic inflammation

○ Soichiro Yoshikawa^{1,2)}, Hitoshi Urakami^{2,3)}, Kei Nagao^{1,2)}, Kensuke Miyake⁴⁾, Shuhei Sano⁵⁾, Emi Nishii⁵⁾, Hajime Karasuyama⁴⁾, Mitsutoshi Tominaga¹⁾, Kenji Takamori^{1,6)}, Shin Morizane³⁾, Sachiko Miyake⁵⁾

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WS05-29-P

Investigation on proliferation response of lymphocytes in NC/Jic mice

○ Shino Ando, Miyoko Matsushima, Fuzuki Hayashi, Hina Kawashima, Sayaka Takagi, Nanami Yoshida, Yuzuki Matsuda, Tsutomu Kawabe

Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System

WS05-30-P

Characterization of T cells in a humanized mouse model of Th2 cell-induced contact hypersensitivity

○ Yusuke Ohno¹⁾, Misa Mochizuki¹⁾, Kenji Kawai¹⁾, Yukio Nakamura²⁾, Ryuji Suzuki²⁾, Motohito Goto¹⁾, Riichi Takahashi¹⁾, Ryoji Ito¹⁾

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WS05-31-P

Effects of sex differences and prenatal environment on exacerbation of contact hypersensitivity in Nrf2-deficient mice

○ Ayaka Sugihara, Kazuki Nagata, Chiharu Nishiyama

Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science

WS06 Arthritis and Fibrosis

WS06-01-O/P

Distinct proliferative and spatial properties of peripheral helper T cells in rheumatoid arthritis synovium

○ Yuki Masuo¹⁾, Akinori Murakami^{1,2)}, Rinko Akamine¹⁾, Osamu Iri¹⁾, Koichi Murata^{2,3)}, Takayuki Fujii^{2,3)}, Yasuhiro Murakawa^{4,5)}, Chikashi Terao⁶⁾, Yukinori Okada^{7,8,9)}, Motomu Hashimoto¹⁰⁾, Hideki Ueno^{1,5)}, Hiroyuki Yoshitomi^{1,5)}

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WS06-02-O/P

Human synovial Tph cells are involved in synovial inflammation in rheumatoid arthritis via a novel inflammatory humoral factor

○ Akinori Murakami^{1,2,3)}, Rinko Akamine^{2,3)}, Yuki Masuo^{2,3)}, Osamu Iri²⁾, Yasuhiro Murakawa^{4,5)}, Chikashi Terao⁶⁾, Yukinori Okada^{7,8,9)}, Motomu Hashimoto¹⁰⁾, Shuichi Matsuda¹⁾, Hideki Ueno^{2,3,5)}, Hiroyuki Yoshitomi^{2,3,5)}

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WS06-03-O/P

Expression of CD103 and CD200 define functionally distinct arthritogenic Th17 cells

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

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WS06-04-O/P

GM-CSF-dependent Macrophage Subpopulation Derived from Ly6C^{hi} Monocytes Causes Development and Enhancement of Joint Inflammation in Autoimmune Arthritis

○ Hiroki Mukoyama^{1,2)}, Yusuke Takeuchi^{1,2)}, Daiya Ohara¹⁾, Yoonha Lee¹⁾, Hitomi Watanabe¹⁾, Gen Kondoh¹⁾, Akio Morinobu²⁾, Keiji Hirota¹⁾

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WS06-05-O/P

The critical involvement of RasGRP4 in synovial resident cells in inflammatory arthritis

○ Rihaan Da, Tetsuya Saito, Natsuka Umezawa, Hiroyuki Baba, Wen Shi Lee, Shinsuke Yasuda

Department of Rheumatology, Tokyo Medical and Dental University

WS06-06-O/P

Identification of the oncostatin M-driven macrophage-fibroblast interaction as a drug target in autoimmune arthritis

○ Rui Ling¹⁾, Nam Cong Nhat Huynh¹⁾, Masatsugu Komagamine¹⁾, Tianshu Shi¹⁾, Masayuki Tsukasaki²⁾, Noriko Komatsu^{1,3)}, Hiroshi Takayanagi¹⁾

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WS06-07-P

Single-cell transcriptomic analysis of arthritis-associated osteoclastogenic macrophages (AtoMs) identifies hypoxia-responsive pathological tissue remodeling and bone destruction

○ Tomoya Agemura^{1,2)}, Yasuhito Yahara¹⁾, Kentaro Fujii¹⁾, Masaru Ishii¹⁾

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WS06-08-P

Dysfunctional Macrophages Exacerbate Autoimmune Arthritis in SKG Mice

Ayae Tanaka¹⁾, Takayoshi Owada²⁾, Anna Hasegawa¹⁾, Nobuhide Tsuruoka³⁾, Toshibumi Taniguchi⁴⁾, Hirokuni Hirata²⁾, Kazuhiro Kurasawa¹⁾, Kei Ikeda¹⁾, ○ Masafumi Arima¹⁾

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WS06-09-P

The MALAT1/TGF-β signaling pathway is dysregulated in rheumatoid arthritis patients

○ Misagh Rajabinejad^{1,2)}, Hossein Asgarian-Omran^{2,3)}

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WS06-10-P

Parsing the point of action of anti-rheumatic drugs and the mechanism of treatment-resistant synovitis by synovial single-cell analysis

○ Risa Yoshihara¹⁾, Haruka Tsuchiya¹⁾, Yasunori Omata²⁾, Kazuyoshi Ishigaki³⁾, Takahiro Itamiya^{1,4)}, Hiroaki Harada¹⁾, Hirofumi Shoda¹⁾, Kazuhiko Yamamoto³⁾, Sakae Tanaka²⁾, Tomohisa Okamura⁴⁾, Keishi Fujio¹⁾

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WS06-11-P

Analysis of soluble TIM-4 in the serum of patients with collagen diseases

○ Hisaya Akiba¹⁾, Yoshiyuki Abe²⁾, Yoko Tabe³⁾, Naoto Tamura²⁾, Sachiko Miyake¹⁾

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WS06-12-P

Alteration of CD4+ T cells with aging in arthritis model mice

○ Shusuke Tanaka, Taihei Nishiyama, Ayako Ohyama, Airi Kondo, Hiromitsu Asashima, Haruka Miki, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto

Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS06-13-P

Computer model of remote inflammation of rheumatoid arthritis

○ Satoshi Yamada¹⁾, Akihiko Yoshimura²⁾, Kaoru Murakami³⁾, Rie Hasebe⁴⁾, Masaaki Murakami^{3,4,5)}

¹⁾Okayama University of Science, ²⁾Tokyo University of Science, ³⁾Hokkaido University, ⁴⁾National Institute for Physiological Sciences, ⁵⁾National institutes for quantum and radiological science and technology

WS06-14-P

Heterogeneity of the Pathogenesis of Spondyloarthritis: Plasmacytoid Dendritic Cells Orient Axial Lesions

○ Sotaro Nakajima¹⁾, Haruka Tsuchiya¹⁾, Risa Yoshihara¹⁾, Kazuyoshi Ishigaki^{1,2)}, Haruka Takahashi¹⁾, Tomohisa Okamura³⁾, Kazuhiko Yamamoto⁴⁾, Hiroko Kanda^{1,5)}, Hirofumi Shoda¹⁾, Tetsuya Tomita⁶⁾, Keishi Fujio¹⁾

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WS06-15-O/P

Attenuated Lung Fibrosis in Myeloid-Specific Ezh2 Deficient Mice: Insights from a Systemic Sclerosis Model

○ Sita Virakul¹⁾, Benjawan Saechue²⁾, Rajit Chompoowong³⁾, Patipark Kueanjinda⁸⁾, Haruhiko Koseki⁴⁾, Nattiya Hirankarn⁵⁾, Wijit Banlunara⁶⁾, Benchaphorn Limcharoen⁷⁾, Tanapat Palaga¹⁾

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WS06-16-P

Ear thickness-based evaluation of the disease severity in a murine model of systemic sclerosis

○ Fatemeh Mirkatouli, Ryoken Yamanaka, Norimasa Yamasaki, Sawako Ogata, Kento Miura, Osamu Kaminuma
Hiroshima University

WS06-17-P

TNF α -induced adipose-related protein (TIARP) suppresses the pathogenesis of bleomycin induced pulmonary fibrosis○ Yuka Yoshiki^{1,2}, Haruka Miki¹, Reona Tanimura¹, Ryota Sato¹, Ayako Ohyama¹, Saori Abe¹, Ayako Kitada¹, Hiromitsu Asashima¹, Yuya Kondo¹, Hiroto Tsuboi¹, Isao Matsumoto¹¹Department of Rheumatology, Faculty of Medicine, University of Tsukuba, ²College of Medical Sciences, School of Medicine and Health Sciences, University of Tsukuba

WS06-18-O/P

rW27 alleviates *E. faecalis*-promoted, CDAHFD-induced NASH disease in mice by attenuating liver fibrosis○ Chen Xiu Jie^{1,2,3}¹Graduate School of Frontier Sciences The University of Tokyo, ²Institute for Quantitative Biosciences, The University of Tokyo, ³Laboratory of Immunology and Infection Control, The University of Tokyo

December 3

WS07 Macrophage (Session 1)

WS07-01-O/P

Alveolar macrophage-specific depletion system in mice reveals the unique roles in respiratory infections○ Yuki Nakayama^{1,2}, Miwa Sasai^{1,2,3,4}, Masahiro Yamamoto^{1,2,3,4}¹Department of Immunoparasitology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, ³Center for Infectious Disease Education and Research, Osaka University, Osaka, Japan, ⁴Center for Advances Modalities and Drug Delivery Systems, Osaka University, Osaka, Japan

WS07-02-P

Transcription Factor FOXO1 in Macrophages Regulates Inflammation and Pathogenesis of ARDS in Mouse Model○ Hinata Wade, Masahiro Kitabatake, Ryutaro Furukawa, Atsushi Hara, Noriko Ouji-Sageshima, Toshihiro Ito
Department of Immunology, Nara Medical University

WS07-03-P

Lipopolysaccharide pre-conditioning enhances the bactericidal activity of Kupffer cells against both gram-positive and negative bacteria in mice

○ Hiroyuki Nakashima, Bradley Michael Kearney, Kazuma Mori, Ryohei Suematsu, Kohei Yamada, Masahiro Nakashima, Manabu Kinoshita

Immunology and Microbiology, National Defense Medical College

WS07-04-O/P

The differential pyrin inflammasome responses between resident peritoneal and bone marrow-derived macrophages○ Izumi Sasaki¹, Shiori Kaji², Yuri Fukuda-Ohta¹, Daisuke Okuzaki³, Takashi Kato¹, Tsuneyasu Kaisho¹¹Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, ²Second Department of Internal Medicine, Wakayama Medical University, ³WPI-Immunology Frontier Research Center, Osaka University

WS07-05-O/P

Clathrin heavy chain: a regulatory key for NLRP3 inflammasome activation via endocytosis in macrophages○ Hung Hiep Huynh¹, Eri Koike¹, Masumi Shimizu¹, Akihiko Yoshimura², Rimpei Morita¹¹Department of Microbiology and Immunology, Nippon Medical School, ²Graduate School of Medicine, Keio University

WS07-06-P

NLRP3 and SGPL1 interaction plays a key role in priming event for inflammasome activation

○ Fumiyuki Sasaki, Masumi Shimizu, Misaki Wakasugi, Hinata Hirashima, Rimpei Morita

Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS07-07-P

Gelsolin from macrophages promotes fibroblasts migration during skin wound healing○ Eri Toyohara^{1,2}, Fumiyuki Sasaki², Teruyuki Dohi¹, Rei Ogawa¹, Rimpei Morita²¹Department of Plastic, Reconstructive and Regenerative Surgery, Nippon Medical School, Tokyo, Japan, ²Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan

WS07-08-O/P

TAK1-binding protein 2 (TAB2) suppresses aberrant activation of NLRP3 inflammasome mediated by autocrine TNF- α ○ Giichi Takaesu^{1,2,3)}, Tanveer Ali²⁾, 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, University of the Ryukyus

WS07-09-P

TAK1 is involved in the maintenance of monocyte-derived macrophages that emerge during the acute phase of inflammation

○ Katsuki Iwahori, Hideki Sanjo

Department of Molecular and Cellular Immunology, Shinshu University School of Medicine

WS07-10-O/P

A critical role of protein cross-linking enzyme transglutaminase 2 in M2 macrophage polarization and fibrosis

○ Hideki Tatsukawa, Kiyotaka Hitomi

Graduate School of Pharmaceutical Sciences, Nagoya University

WS07-11-O/P

Autologous Macrophages induced by IL-34-based condition Suppress Hepatic Fibrosis with CD8+ T Cell Inhibition

○ Yuichi Igarashi, Haruka Wada, Ken-ichiro Seino

Division of Immunobiology, Institute for Genetic Medicine, Hokkaido University.

WS07-12-O/P

Dual-wield pathway of macrophages drives myofibroblast transition via dysregulation of iron metabolism○ Hiroshi Nabeshima^{1,2)}, Kiyoharu Fukushima^{2,3,4)}, Shizuo Akira^{2,3,5)}¹⁾Host Defense Laboratory, Immunology Unit, Osaka Research Center for Drug Discovery, Otsuka Pharmaceutical Co., Ltd., ²⁾Laboratory of Host Defense, World Premier Institute Immunology Frontier Research Center (WPI-IFReC), Osaka University, ³⁾Department of Host Defense, Research Institute for Microbial Diseases (RIMD), Osaka University, ⁴⁾Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine, ⁵⁾Center for Advanced Modalities and DDS (CAMA-D), Osaka University

WS07-13-P

PDGFR α fibroblasts and macrophages cooperatively suppress the necrotic changes in myocardial infarction○ Risa Fujimoto¹⁾, Kentaro Fujii²⁾, Masaru Ishii^{1,2)}¹⁾Department of Immunology and Cell Biology, Graduate School of Frontier Biosciences Osaka University, ²⁾Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University

December 3

WS08 Infection immunity 1

WS08-01-O/P

Regnase-4 protects mice against HSV-1 infection by reinforcing type I interferon production○ Keiko Yasuda^{1,2)}, Junichi Aoki¹⁾, Kotaro Tanaka¹⁾, Daiya Ohara³⁾, Keiji Hirota³⁾, Osamu Takeuchi¹⁾¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾Department of Immunology, Nagoya City University Graduate School of Medical Sciences, ³⁾Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University

WS08-02-O/P

Transcription factor FOXO1 critically regulates viral replication and inflammatory reaction during SARS-CoV-2 infection both in *in vitro* and *in vivo* models○ Ryutaro Furukawa¹⁾, Noriko Oujii-Sageshima¹⁾, Masahiro Kitabatake¹⁾, Atsushi Hara¹⁾, Shigeyuki Shichino²⁾, Satoshi Ueha²⁾, Kouji Matsushima²⁾, Toshihiro Ito¹⁾¹⁾Department of Immunology, Nara Medical University, ²⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS08-03-O/P

Immune profiling of less reactogenic mRNA vaccine revealed the pathways associated with adverse reaction○ Tomohiro Takano¹⁾, Keigo Kumagai²⁾, Hitoshi Iuchi³⁾, Aya Mizuike^{2,4)}, Tomoharu Mizukami²⁾, Eita Sasaki¹⁾, Koji Kobiyama⁵⁾, Ken Ishii⁵⁾, Michiaki Hamada³⁾, Masayoshi Fukasawa²⁾, Takayuki Matsumura¹⁾, Yoshimasa Takahashi¹⁾¹⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾Department of Biochemistry and Cell Biology, National Institute of Infectious Diseases, ³⁾Faculty of Science and Engineering, Waseda University, ⁴⁾Center for Quality Management Systems, National Institute of Infectious Diseases, ⁵⁾The Institute of Medical Science, The University of Tokyo

WS08-04-P

The balance of inflammatory and non-inflammatory IgG subclasses at pre-vaccination correlates with the reactogenicity of COVID-19 booster vaccines

○ Mizuki Fujisawa¹, Takayuki Matsumura¹, Saya Moriyama¹, Yu Adachi¹, Ryutaro Kotaki¹, Tomohiro Takano¹, Masaharu Shinkai², Yoshimasa Takahashi¹

¹Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²Tokyo Shinagawa Hospital

WS08-05-P

Diminished Neutralization activity against the XBB1.5 Strain Post 6-month COVID-19 mRNA Booster Vaccination: Automated Pseudovirus-Based Neutralization Assay for Large-scale serosurveillance

○ Chieko Makino Okamura^{1,2}, Tianchen Zhao^{3,4}, Yuta Tani³, Morihito Takita^{3,4}, Chika Yamamoto^{3,4}, Hiroki Yoshimura^{3,4}, Harumichi Ishigame^{1,5}, Takaharu Ueno⁶, Kazu Okuma⁶, Masatoshi Wakui⁷, Masaharu Tsubokura^{3,4}, Hidehiro Fukuyama^{1,2,8,9}

¹Division of Immunology, Near InfraRed Photo-ImmunoTherapy Research Institute, Kansai Medical University, ²Infectious Diseases Research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ³General Incorporated Association for Comprehensive Disaster Health Management Research Institute, Tokyo, Japan, ⁴Department of Radiation Health Management, Fukushima Medical University School of Medicine, Fukushima, Japan, ⁵Laboratory for Tissue Dynamics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ⁶Department of Microbiology, Kansai Medical University, School of Medicine, Hirakata, Osaka, Japan, ⁷Department of Laboratory Medicine, Keio University School of Medicine, Tokyo, Japan, ⁸Cell Integrative Science Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Kanagawa, Japan, ⁹INSERM EST, Strasbourg, France

WS08-06-P

Development of a single-chain variable antibody fragment against a conserved region of the SARS-CoV-2 spike protein

○ Tingyu Gao, Atsushi Irie, Takahisa Kowaki, Hiroyuki Oshiumi

Dep Immunol, Grad Sch Med Sci, Kumamoto University

WS08-07-O/P

History of infection and vaccination affects the quality of T cell responses in humans

○ Dongyun Lu¹, Celine Chua¹, Xinxin Xue¹, Naila Shinwari¹, Ito Isao², Takao Hashiguchi³, Ryutaro Kotaki⁴, Yoshimasa Takahashi⁴, Hideki Ueno¹

¹Department of Immunology, Graduate School of Medicine, Kyoto University, ²Department of Respiratory Medicine, Kyoto University Hospital, ³Institute for Frontier Life and Medical Sciences, Kyoto University, ⁴Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases

WS08-08-O/P

Differential potency of memory T cells and memory B cells in older adults following COVID-19 mRNA vaccination

○ Kohei Kometani¹, Takaaki Yorimitsu^{1,2}, Norihide Jo^{1,3}, Yoko Hamazaki^{1,4,5}

¹Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University, ²Department of Human Health Sciences, Graduate School of Medicine, Kyoto University, ³Alliance Laboratory for Advanced Medical Research, Graduate School of Medicine, Kyoto University, ⁴Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University, ⁵Kyoto University Immunomonitoring Center (KIC)

WS08-09-P

The mechanism for maintenance of memory CD8 T Cells after COVID-19 mRNA vaccination

○ Takuto Nogimori¹, Mayu Kumamoto^{1,2}, Yuji Masuta¹, Tomoka Matsuura³, Satoko Ohfuji³, Tetsuo Kase³, Kyoko Kondo⁴, Yu Nakagama⁵, Yasutoshi Kido⁵, Victor Appay⁶, Wakaba Fukushima³, Takuya Yamamoto^{1,2,7}

¹Laboratory of Precision Immunology, Center for Intractable Diseases and ImmunoGenomics, National Institutes of Biomedical Innovation, Health, and Nutrition, Osaka 567-0085, Japan, ²Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences, Osaka University, Osaka 565-0871, Japan, ³Department of Public Health, Graduate School of Medicine, Osaka Metropolitan University, Osaka, 545-8585, Japan, ⁴Management Bureau, Osaka Metropolitan University Hospital, Osaka, 545-8585, Japan, ⁵Department of Virology and Parasitology, Graduate School of Medicine, Osaka Metropolitan University, Osaka, 545-8585, Japan, ⁶Université de Bordeaux, CNRS UMR 5164, INSERM ERL 1303, ImmunoConcEpT, 33000 Bordeaux, France, ⁷Department of Virology and Immunology, Graduate School of Medicine, Osaka University, Osaka 565-0871, Japan

WS08-10-O/P

HLA-C-restricted nucleocapsid-specific CTLs show potent antiviral activity and long-lived memory phenotype

○ Chihiro Motozono¹, Mako Toyoda¹, Hiroshi Hamana², Hiroyuki Kishi², Takamasa Ueno¹

¹Kumamoto University, Joint Research Center for Human Retrovirus infection, ²University of Toyama, Department of Immunology, Faculty of Medicine, Academic Assembly

WS08-11-P

Self-assembling peptide CK2 contributes to the induction of antigen-specific cytotoxic T lymphocyte as a carrier of adjuvant and antigen

○ Koubun Yasuda¹, Miya Fujimoto², Etsushi Kuroda¹

¹Department of Immunology, School of Medicine, Hyogo Medical University, ²Menicon Co., Ltd

WS08-12-P

An mRNA vaccine encoding the SARS-CoV-2 Omicron XBB.1.5 receptor-binding domain protects mice from the JN.1 variant

○ Ryuta Uraki^{1,2,3}, Maki Kiso³, Mutsumi Ito², Seiya Yamayoshi^{1,2,3}, Peter Halfmann⁴, Shilpi Jain^{5,6,7}, Mehul S. Suthar^{5,6,7,8}, Nao Jounai⁹, Kazuki Miyaji⁹, Fumihiko Takeshita⁹, Yoshihiro Kawaoka^{1,2,3,4}

¹National Center for Global Health and Medicine, ²Division of Virology, Institute of Medical Science, The University of Tokyo, ³The University of Tokyo Pandemic Preparedness, Infection and Advanced Research Center (The UTOPIA Center), ⁴Department of Pathobiological Sciences, School of Veterinary Medicine, University of Wisconsin-Madison, ⁵Department of Pediatrics, Emory University School of Medicine, ⁶Emory Vaccine Center, ⁷Emory National Primate Research Center, ⁸Department of Microbiology and Immunology, Emory University, ⁹Vaccine Research Laboratories, R&D Division, Daiichi Sankyo Co., Ltd.

WS08-13-P

Hyaluronic acid nanogel to develop a new safe vaccine

○ Yuko Nariai¹, Toru Katsumata², Takashi Nakai^{1,2}, Tsuyoshi Shimobojo², Takeshi Urano¹

¹Vaccine and Therapeutic Antibodies for Emerging Infectious Diseases, Shimane University, ²Asahi Kasei Corporation, Life Innovation Business Division, Healthcare Materials Division, New Product Development Office

WS08-14-P

Full-length nanopore sequencing of circular RNA landscape in peripheral blood cells following sequential BNT162b2 mRNA vaccination

○ Yu-Chen Liu^{1,2}

¹Laboratory for Human Immunology (Single Cell Genomics), WPI Immunology Frontier Research Center, Osaka University, ²Center for Infectious Disease Education and Research (CiDER), Osaka University, Osaka, Japan

WS08-15-P

Correlation analysis between repertoire and gene expression in SARS CoV-2 antigen-specific immune cells

○ Kosuke Miyauchi, Akiko Sugimoto, Takashi Watanabe

RIKEN IMS

WS08-16-O/P

Predictive Biomarkers of COVID-19 Prognosis Identified in Bangladesh Patients and Validated in Japanese Cohorts

○ Kazuko Uno¹, Abu Hasan², Rummana Rahim², Toshio Tanaka³, Mizanur Rahman², Kazuyuki Yoshizaki⁴

¹IFN & Host-defense Research Laboratory, Louis Pasteur Center for Medical Research, ²Evercare Hospital Dhaka, ³Kinki Central Hospital, ⁴Department of Organic Fine Chemicals, Institute of Scientific and Industry Research, Osaka University

WS08-17-P

Multi-omics Analysis of Autoantibody-Mediated Suppression of Type I Interferon Signaling in Myeloid Cells in Severe COVID-19 Patients

○ Masahiro Kiuchi¹, Chiaki Iwamura^{1,2}, Kaori Tsuji¹, Atsushi Sasaki¹, Takahisa Hishiya¹, Rui Hirasawa¹, Kota Kokubo¹, Atushi Onodera¹, Motoko Kimura^{2,3}, Shinichiro Motohashi⁴, Kiyoshi Hirahara^{1,2,5}

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WS08-18-O/P

T cell repertoire and transcriptome profiling of CD8⁺ T cells in the peripheral blood of dengue virus infection during acute, early, and late recovery phases

Eleonor F Avenido-Cervantes^{1,2}, Akiko Baba¹, Jiun-Yu Jian³, Archival M Cervantes², Blanca R Jarilla-Nagataki², Mario Antonio L Jiz II², Arthur Dessi E Roman⁴, Yu-Chen James Liu⁵, Daisuke Okuzaki⁵, Shusaku Mizukami³, Katsuyuki Yui³, ○ Kenji Hirayama¹

¹School of Tropical medicine and Global Health and NEKKEN, Nagasaki University, ²Immunology Department, Research Institute for Tropical Medicine, Philippines, ³Department of Immune regulation, Institute of Tropical Medicine (NEKKEN), Nagasaki University, ⁴Clinical Research Division, Research Institute for Tropical Medicine, Philippines, ⁵Human Immunology (Single Cell Genomics), Immunology Frontier Research Center: IFReC, Osaka University

WS08-19-P

Kupffer cell-B cell interaction promotes host defense against gut bacterial infection in the liver

○ Risako Kanemitsu¹, Yu Miyamoto^{2,3}, Masaru Ishii^{1,2,3}

¹Department of Immunology and Cell Biology, Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan, ²Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University, Osaka, Japan, ³WPI-Immunology Frontier Research Center, Osaka University, Osaka, Japan

WS08-20-P

Exploring Immune Maturation and Allergy Suppression Through Natural Environment Exposure

○ Ayumi Okuzumi¹, Kazuyo Moro^{1,2,3}

¹Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²Laboratory for Innate Immune Systems, RIKEN-IMS, ³Laboratory for Innate Immune Systems, IFReC, Osaka University

Viral Infections Associated to Patients with Hematologic Malignancies (HMs) and Hematopoietic Cell Transplant (HCT) Recipients

○ Rosinta Hotmaida Pebrianti Purba¹, Lintong Hottua Simbolon¹, Helen Try Juniasti^{2,1}

¹Department of Socioeconomics and Health Research, The Pranala Institute, Indonesia, ²Department of Public Health, Cendrawasih University, Indonesia

December 3

WS09 Mucosal-Skin Immunity 2

WS09-01-O/P

Sulfated glycans in intestinal homeostasis and disease

○ Shota Okamoto¹, Ryu Okumura^{1,2}, Kiyoshi Takeda^{1,2}

¹Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²WPI Immunology Frontier Research Center, Osaka University

WS09-02-O/P

Novel Metabolites Altered by Appendectomy Lead to Tuft Cell Hyperplasia and Play an Important Role in the Amelioration of Ulcerative Colitis

○ Shunya Hatai^{1,2}, Yasutaka Motomura^{2,3,4}, Koji Hosomi⁵, Taiki Sakaguchi⁶, Ryu Okumura⁶, Takayuki Ogino⁷, Daisuke Motooka⁸, Eiichi Morii⁹, Shota Nakamura⁸, Kiyoshi Takeda⁶, Jun Kunisawa⁵, Kazuyo Moro^{1,2,3}

¹Laboratory for Innate Immune Systems, RIKEN-IMS, ²Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ³Laboratory for Innate Immune Systems, iReC, Osaka University, ⁴Division of Immunology and Allergy, Research Institute for Biomedical Science, Tokyo University of Science, ⁵Laboratory of Vaccine Materials, Center for Vaccine and Adjuvant Research, and Laboratory of Gut Environmental System, National Institutes of Biomedical Innovation, Health, and Nutrition (NIBIOHN), ⁶Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ⁷Department of Gastroenterological Surgery, Graduate School of Medicine, Osaka University, ⁸Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, ⁹Department of Pathology, Graduate School of Medicine, Osaka University

WS09-03-O/P

Crucial Role of Pancreatic GP2 in Regulating Bacterial Translocation and Organ Failure

○ Yosuke Kurashima^{1,2,3}, Zhongwei Zhang¹, Yun-Gi Kim⁴, Nozomu Obana⁵, Shinji Fukuda^{5,6}, Ryutarou Fukui⁷, Kensuke Miyake⁷, Koji Hase⁸, Hiroshi Ohno⁹, Satoshi Uematsu¹⁰, Peter B Ernst³, Hiroshi Kiyono^{1,2,3}

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WS09-04-O/P

Loss of claudin-1 in keratinocytes induces itch transmitted by multiple types of sensory nerves

○ Susumu Toshima^{1,2}, Sonoko Takahashi¹, Ayako Matsuyama¹, Akiharu Kubo^{2,3}, Masayuki Amagai^{2,4}, Takaharu Okada¹

¹Laboratory for Tissue Dynamics, Center for Integrative Medical Science, RIKEN, ²Department of Dermatology, Keio University School of Medicine, ³Division of Dermatology, Department of Internal Related, Kobe University Graduate School of Medicine, ⁴Laboratory for Skin Homeostasis, Center for Integrative Medical Science, RIKEN

WS09-05-O/P

Epithelial barrier dysfunction by intestine-specific AP-1B deficiency causes renal IgA deposition

○ Yusuke Kinashi¹, Keisuke Tanaka¹, Shunsuke Kimura¹, Daisuke Takahashi¹, Hiroshi Ohno², Koji Hase¹

¹Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University, ²Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences

WS09-06-O/P

Reactive persulfide controls intestinal inflammation by suppressing CD4⁺ T lymphocyte proliferation

○ Shunichi Tayama¹, Yuya Kitamura, Kyoga Hiraide², Hibiki Suzuki, Jing Li¹, Ziyang Yang¹, Kosuke Sato¹, Akihisa Kawajiri³, Yuko Okuyama, Takeshi Kawabe¹, Takaaki Akaike⁴, Naoto Ishii¹

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WS09-07-O/P

M cells in the tear duct-associated lymphoid tissue contribute to the development of allergic conjunctivitis by facilitating germinal-center reaction

○ Yuki Oya¹⁾, Shunsuke Kimura^{1,2)}, Koji Hase^{1,3,4)}

¹⁾Keio Univ., ²⁾Precursory Research for Embryonic Science and Technology (PRESTO), ³⁾The Institute of Medical Science, ⁴⁾Fukushima Univ.

WS09-08-O/P

Identification of staphylococcus aureus genes affecting response to bleach bath therapy in patients with atopic dermatitis

○ Hiroshi Kawasaki^{1,2)}, Ayano Fukushima-Nomura²⁾, Yoshihiro Ito²⁾, Eiryō Kawakami¹⁾, Masayuki Amagai²⁾

¹⁾RIKEN, ²⁾Keio Univ.

WS09-09-P

Ultraviolet-B irradiation expands skin-resident CD81⁺Foxp3⁺ regulatory T cells with a highly activated phenotype

○ Hiroaki Shime¹⁾, Mizuyu Odanaka¹⁾, Masaki Imai^{1,2)}, Daisuke Sugiyama¹⁾, Shoryu Takayama¹⁾, Akimichi Morita³⁾, Sayuri Yamazaki¹⁾

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WS09-10-P

Elucidation of the Mechanism of IgA Induction by Heat-killed Lactic Acid Bacteria

○ Jiahui Lyu^{1,2)}, Riho Matsumura^{1,2)}, Mizusa Suzuki^{1,2)}, Peng Gao¹⁾, Yasunori Yonejima³⁾, Chiaki Tomimoto³⁾, Reiko Shinkura¹⁾

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WS09-11-P

Characterization of human monocytic cell line THP-1 associated with 3D human skin models under UVA exposure

○ Tanapat Palaga¹⁾, Suphanun Phuphanitcharoenkun^{2,3)}, Fiona Louis⁴⁾, Rungaroon Waditee-Sirisattha¹⁾, Hakuto Kageyama⁵⁾, Michiya Matsusaki⁶⁾

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WS09-12-P

Suppression of STAT3 activation in itch-transmitting sensory neurons by the topical application of delgocitinib to the mouse skin

○ Takuma Kanai^{1,2)}, Minoru Tateno³⁾, Sonoko Takahashi¹⁾, Ayako Matsuyama¹⁾, Natsuki Yatsuo^{1,2)}, Rumi Sato¹⁾, Susumu Toshima^{1,4)}, Katsuyo Ohashi-Doi³⁾, Hiroshi Kawasaki^{1,4)}, Takaharu Okada^{1,2)}

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WS09-13-P

A Novel Recombinant *Lactococcus lactis* Mucosal Vaccine Platform Based on Group A Streptococcus Pili

○ Catherine Jia-Yun Tsai^{1,2,3)}, Kohtaro Fujihashi^{3,4)}, Ken Ishii⁴⁾, Thomas Proft^{1,2)}

¹⁾University of Auckland, ²⁾Maurice Wilkins Centre for Molecular Biodiscovery, ³⁾Chiba University Hospital, ⁴⁾The University of Tokyo

WS09-14-P

Functional interregional heterogeneity of anatomically compartmentalized ILC2s in the intestine

○ Yuki Fukushima¹⁾, Satoshi Koga^{1,3)}, Kazuyo Moro^{1,2,3)}

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WS09-15-P

The IL10-IL10R axis in *Pdgfra*⁺ fibroblasts is required for the prevention of colitis

○ Takayoshi Ito, Hisako Kayama, Kiyoshi Takeda
Osaka Univ.

WS09-16-P

Development of three-dimensional printed models of the nasal cavity for evaluation of the *in vivo* deposition of nasal vaccines

○ Yohei Uchida¹⁾, Rika Nakahashi^{1,2)}, Shingo Umemoto³⁾, Masashi Suzuki³⁾, Hiroshi Kiyono^{1,2,4,5,6)}

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WS09-17-P

Effects of dietary fiber and its metabolites on the small intestinal immune system

○ Jigen Sekine^{1,2)}, Katsuki Yaguchi^{1,3)}, Tadashi Takeuchi^{1,4)}, Masami Kawasumi¹⁾, Ayumi Ito¹⁾, Hiroshi Ohno^{1,2)}

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WS09-18-P

Investigating the Impact of Intestinal Microfold Cells on Gut Microbiota Structure and Function Using Synthetic Bacterial Community

○ Mitsuki Ito^{1,2)}, Shohei Asami¹⁾, Tadashi Takeuchi^{1,3)}, Takashi Kanaya¹⁾, Hiroshi Ohno¹⁾

¹⁾Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, ²⁾Graduate School of Pharmaceutical Sciences, Tokyo University of Science, ³⁾Department of Microbiology and Immunology, Stanford University School of Medicine

WS09-19-P

Rosiglitazone exerts an anti-fibrotic effect in intestinal fibrosis via TGFβ/Smad and ERK signaling pathways

○ Supasuta Leangpanich, Arong Gaowa, Motomu Shimaoka
Mie Univ.

WS09-20-P

Pathogenetic analysis of ulcerative colitis-like inflammatory bowel disease using ER-stress reporter gene and HLA-DR4 transgenic mice

○ Atsushi Irie, Ryo Ikeda, Hroyuki Oshiumi

Department of Immunology, Graduate School of Medical Sciences, Kumamoto University

WS09-21-P

Conjunctival goblet cell associated antigen passage serves as a target for both allergy prevention and drug delivery

○ Yasuharu Kume^{1,2,3)}, Tomoaki Ando¹⁾, Keiji Matsumoto^{1,2,3)}, Meiko Kimura^{1,2,3)}, Moe Matsuzawa^{1,2,3)}, Kumi Izawa¹⁾, Ayako Kaitani¹⁾, Nobuhiro Nakano¹⁾, Shintaro Nakao³⁾, Nobuyuki Ebihara²⁾, Ko Okumura¹⁾, Jiro Kitaura^{1,4)}

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December 3

WS10 Tissue inflammation controlled by T cells

WS10-01-P

The expression and functional role of cytotoxicity-associated molecule, Nkg7, in murine CD4⁺ T cells

○ Yui Hirao¹⁾, Ritsuki Tanabe¹⁾, Yuka Okabe^{1,2)}, Ryuichi Nagashima^{1,2)}, Hiroaki Takimoto^{1,2)}, Makoto Kubo³⁾, Koji Eshima^{1,2)}

¹⁾Division of Immunology, Kitasato University Graduate School of Science, ²⁾Division of Immunology, Department of Biosciences Kitasato University School of Science, ³⁾Department of Microbiology, Kitasato University School of Allied Health Sciences

WS10-02-O/P

SH-2251 functions as an antagonist of retinoic acid receptor alpha, suppressing IL-5-producing Th2 cell differentiation and function and chronic Th2-type airway inflammation

○ Shunsuke Nomura¹⁾, Makoto Kuwahara²⁾, Junpei Suzuki²⁾, Masakatsu Yamashita^{1,2)}

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WS10-03-O/P

Agonization of *Nr4a1* Inhibits Th17 Differentiation and Mitigates Experimental Arthritis in SKG mice○ Yoichi Nakayama¹⁾, Ryosuke Hiwa¹⁾, Ayaka Okubo¹⁾, Mikihiro Shoji¹⁾, Mirei Shirakashi¹⁾, Hideaki Tsuji¹⁾, Koji Kitagori²⁾, Ran Nakashima¹⁾, Shuji Akizuki¹⁾, Hajime Yoshifuji¹⁾, Akio Morinobu¹⁾¹⁾Department of Rheumatology and Clinical Immunology, Kyoto University Graduate School of Medicine, ²⁾Occupational Welfare Division, Agency for Health, Safety and Environment, Kyoto University

WS10-04-O/P

Dual Function of α -Synuclein as Antigen and Adjuvant Orchestrate Th17 Responses in Parkinson's Disease○ Emi Furusawa Nishii¹⁾, Asako Chiba¹⁾, Ayami Okuzumi²⁾, Shinichi Ueno²⁾, Yasunobu Hoshino²⁾, Taku Hatano²⁾, Nobutaka Hattori^{2,3)}, Sachiko Miyake¹⁾¹⁾Juntendo University Faculty of Medicine Department of Immunology, ²⁾Juntendo University Faculty of Medicine Department of Neurology,³⁾Neurodegenerative Disorders Collaborative Laboratory, RIKEN Center for Brain Science

WS10-05-P

Differences in the characteristics and functions of brain and spinal cord regulatory T cells○ Mahiro Watanabe, Ako Matsui, Natsumi Awata, Ayame Nagafuchi, Mio Kawazoe, Yoshihiro Harada, Minako Ito
Kyushu University Medical Institute of Bioregulation Division of Allergy and Immunology

WS10-06-P

Lumbar lymph nodes are aberrant in SOD1-G93A mice

○ Yoshihiro Harada, Mio Kawazoe, Ako Matsui, Minako Ito

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

WS10-07-O/P

The T cell receptor specificity contributes to Th1-type effector regulatory T cell differentiation

○ Shun Yuasa, Ryuichi Murakami, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS10-08-P

Fatty acid metabolism constrains Th9 cell differentiation and anti-tumor immunity○ Toshio Kanno¹⁾, Takahiro Nakajima²⁾, Keisuke Miyako¹⁾, Yusuke Endo¹⁾¹⁾Kazusa DNA Research Institute, ²⁾Tokyo University of Information Sciences

WS10-09-P

Naturally arising memory-phenotype CD4⁺ T lymphocytes rapidly accumulate in ischemic organs to exacerbate the tissue injury in an innate manner○ Kosuke Sato^{1,2)}, Akihisa Kawajiri¹⁾, Jing Li¹⁾, Ziyang Yang¹⁾, Shunichi Tayama¹⁾, Kenshiro Matsuda³⁾, Chigusa Oda³⁾, Akira Shibuya³⁾, Motoshi Wada²⁾, Naoto Ishii¹⁾, Takeshi Kawabe¹⁾¹⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan, ²⁾Department of Pediatric Surgery, Tohoku University Graduate School of Medicine, Sendai, Japan, ³⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan

WS10-10-P

Upregulated APJ expression may affect effector T cell functionsTadahiko Inoue¹⁾, Mone Fushimi^{1,2)}, Daiki Yamada¹⁾, Ryuichi Okamoto¹⁾, ○ Takashi Nagaishi¹⁾¹⁾Department of Gastroenterology, Graduate School of Medical Science, Tokyo Medical and Dental University, ²⁾Faculty of Applied Chemistry, Tokyo University of Science

WS10-11-O/P

Type I interferon drives T cell cytotoxicity by upregulation of interferon regulatory factor 7 in autoimmune kidney diseases

○ Nariaki Asada, Huiying Wang, Jonas Engesser, Anett Peters, Anna Kaffke, Hans-Joachim Paust, Ulf Panzer

University Medical Center Hamburg-Eppendorf

WS10-12-P

Interleukin-32-expressing CD4⁺ T cells may represent a new key cell subset in systemic sclerosis interstitial lung disease

○ Sho Ishigaki, Katsuya Suzuki, Yuko Kaneko

Division of Rheumatology Department of internal medicine, Kio University School of medicine

WS10-13-O/P

Functional Dynamics of Children's T follicular helper Cells in the context of Cryptosporidiosis○ Dana Marie Van Fossen¹⁾, Zannatun Noor²⁾, Lisa Wagar³⁾, Rashidul Haque²⁾, Carol A Gilchrist¹⁾, William A Petri¹⁾¹⁾University of Virginia, ²⁾International Centre for Diarrhoeal Disease Research, Bangladesh (Icddr,b), ³⁾University of California, Irvine

WS10-14-O/P

Analysis of the formation mechanism of ATL-specific *CCR4* super-enhancer○ Shengyi Liu¹⁾, Hiroaki Hiramatsu¹⁾, Takashi Ishida¹⁾, Takuma Kato¹⁾, Hiroyoshi Nishikawa^{1,2)}¹⁾Nagoya University Graduate School of Medicine, ²⁾Exploratory Oncology Research and Clinical Trial Center, National Cancer Center

Single Cell Metabolomics for Immunological Study

○ Asuka Maruo¹⁾, Kazuhiro Sonomura¹⁾, Masaki Tajima²⁾, Tomonori Yaguchi^{3,4)}, Kana Yamasaki⁴⁾, Koji Kitaoka⁴⁾, Taka-Aki Sato¹⁾, Tasuku Honjo⁴⁾, Kenji Chamoto^{3,4)}

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December 3

WS11 Tumor microenvironment and biomarkers

WS11-01-O/P

Sympathetic Nerve Ablation Impact on Angiogenesis and Antitumor Immunity in Hepatocellular Carcinoma

○ Chen Sun¹⁾, Yuqing Shen¹⁾, Fuhua Wang¹⁾, Tian Lu¹⁾, Jianqiong Zhang^{1,2)}

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WS11-02-O/P

Single cell immunoprofiling of tumor infiltrating T cells in renal cell carcinoma

○ Taku Kouro^{1,2)}, Mitsuru Komahashi^{1,3)}, Shun Horaguchi^{1,3)}, Kayoko Tsuji¹⁾, Rika Kasajima⁴⁾, Tetsuro Sasada^{1,2)}

¹⁾Div. Cancer Immunotherapy, Kanagawa Cancer Center Research Institute, ²⁾Cancer Vaccine and Immunotherapy Center, Kanagawa Cancer Center, ³⁾Department of Pediatric Surgery, Nihon University School of Medicine, ⁴⁾Molecular Pathology and Genetics Division, Kanagawa Cancer Center Research Institute

WS11-03-O/P

Elucidating the Immune Microenvironment of Multiple Myeloma Through Advanced Multi-Omics Analysis

○ Shangru Jia¹⁾, Alok Sharma^{2,3,4)}, Artem Lysenko^{2,3)}, Keith Boroevich³⁾, Tatsuhiko Tsunoda^{1,2,3)}

¹⁾Tsunoda Lab, Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo, Japan, ²⁾Laboratory for Medical Science Mathematics, Department of Biological Sciences, School of Science, The University of Tokyo, Japan, ³⁾Laboratory for Medical Science Mathematics, RIKEN Center for Integrative Medical Sciences, Japan, ⁴⁾Institute for Integrated and Intelligent Systems, Griffith University, Nathan, Brisbane, QLD4111, Australia

WS11-04-P

Do myeloma cell-derived monoclonal immunoglobulins trigger inflammasome activation in dendritic cells?

○ Mariko Ishibashi¹⁾, Mika Sunakawa^{1,2)}, Rimpei Morita¹⁾

¹⁾Department of Microbiology and Immunology, Nippon Medical School, ²⁾Department of Hematology, Nippon Medical School

WS11-05-O/P

ADAM9 drives immune suppression in the lung cancer microenvironment

○ Yuh Pyng Sher¹⁾, Jing Pei Liu¹⁾, Shih Jen Liu²⁾

¹⁾China Medical University, ²⁾National Health Research Institutes

WS11-06-P

Metformin synergizes with PD-1 blockade to promote normalization of tumor vessels via CD8T cells and IFN γ

Miho Tokumasu¹⁾, ○ Mikako Nishida¹⁾, Weiyang Zhao¹⁾, Ruoyu Chao¹⁾, Natsumi Imano¹⁾, Nahoko Yamashita¹⁾, Kyoko Hida²⁾, Hisamichi Naito³⁾, Heiichiro Udono¹⁾

¹⁾Department of Immunology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ²⁾Vascular Biology and Molecular Pathology, Faculty of Dental Medicine and Graduate School of Dental Medicine, Hokkaido University, ³⁾Department of Vascular Physiology, Kanazawa University Graduate School of Medical Sciences

WS11-07-O/P

Combination of plasma MMPs and PD-1-binding soluble PD-L1 as a non-invasive tool to predict recurrence in gastric cancer and the efficacy of immune checkpoint inhibitors in non-small cell lung cancer

○ Fumihiko Ando^{1,2)}, Takeru Kashiwada³⁾, Shoko Kuroda¹⁾, Ryotaro Takano^{1,2)}, Yoshishige Miyabe^{1,4)}, Tomoko Asatsuma-Okumura¹⁾, Masahiro Seike³⁾, Yoshiko Iwai¹⁾

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WS11-08-P

Lysosomal degradation of PD-L1 is associated with immune-related adverse events during anti-PD-L1 immunotherapy in NSCLC patients

○ Ryuji Owada¹⁾, Takeru Kashiwada²⁾, Ryotaro Takano^{1,3)}, Fumihiko Ando^{1,3)}, Shoko Kuroda¹⁾, Yoshishige Miyabe^{1,4)}, Tomoko Asatsuma-Okumura¹⁾, Masahiro Seike²⁾, Yoshiko Iwai¹⁾

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WS11-09-P

Biomarker discovery for predicting tumor response to downstaging therapies for patients with unresectable hepatocellular carcinoma

○ Toshiaki Nakano^{1,2)}, Li-Wen Hsu²⁾, Chia-Yun Lai²⁾, Chao-Long Chen²⁾, Yu-Fan Cheng²⁾

¹⁾Chang Gung Univ. College of Medicine, ²⁾Liver Transplantation Center, Kaohsiung Chang Gung Memorial Hospital

WS11-10-P

Investigation of non-invasive markers for evaluating the efficacy of clinical treatment in pancreatic cancer patients

○ Takahiro Tomiyama¹⁾, Hirotomo Murakami^{1,2)}, Yuta Nagatsuka¹⁾, Yoshinori Okina¹⁾, Takuto Nogimori¹⁾, Masahiko Kubo³⁾, Akira Tomokuni⁴⁾, Kunihiro Gotoh³⁾, Shokichi Takahama¹⁾, Hirofumi Akita²⁾, Takuya Yamamoto^{1,5,6)}

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WS11-11-P

The Interactive Lymphocytes Partner as a Predictor of Clinical Outcomes in Undifferentiated Endometrial Carcinomas

Ren-Chin Wu¹⁾, Guan-Ru Peng²⁾, Kah Yi Yap²⁾, Chih-Hung Ye²⁾, Thien-Log Le²⁾, Weng Si Kou²⁾, Patrick Chong²⁾, An-Chi Wei²⁾, Kang-Yi Su²⁾, ○ Shu-Han Yu²⁾

¹⁾CG Univ., ²⁾NT Univ.

WS11-12-O/P

Membrane-based RNA sequencing to analyze the interaction between cancer cells and immune cells

○ Tadashi Imafuku, Sadahiro Iwabuchi, Shinichi Hashimoto
Wakayama Medical University

WS11-13-P

Cell State Analysis of Immune Cells in the Tumor Microenvironment with Deep Learning

○ Jiaxin Li¹⁾, Tatsuhiko Tsunoda^{2,3)}, Artem Lysenko^{2,3)}

¹⁾Department of Computational Biology and Medical Sciences, Graduate School of Frontier Sciences, The University of Tokyo, ²⁾Department of Biological Sciences, Graduate School of Science, The University of Tokyo, ³⁾RIKEN Center for Integrative Medical Sciences

WS11-14-O/P

Genetically encoded fluorescent lactate biosensors for investigating tumor-immune microenvironment

○ Yusuke Nasu^{1,2)}, Yuki Kamijo¹⁾

¹⁾Department of Chemistry, School of Science, The University of Tokyo, ²⁾Japan Science and Technology Agency

WS11-15-P

Features of spatially deconvoluted cell states and their community in tertiary lymphoid structures across cancer types

○ Yan Ange¹⁾, Tatsuhiko Tsunoda^{1,2,3)}, Artem Lysenko^{3,2)}

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December 3

WS12 Innate Immunity (II) Innate immune cell

WS12-01-P

Effects of Phytochemicals on mouse bone marrow-derived dendritic cells

○ Kaho Oki, Takumi Iwasawa, Kazunori Kato

Dep. of Nutrition. Sci., Grad. Sch. of Health and Sport. Sci., Univ. of Toyo

WS12-02-P

DOCK11 regulates migration and cytokine secretion of macrophages

○ Ryohei Kondo, Akihiko Nishikimi

Biosafety Administration Division, Research Institute, National Center for Geriatrics and Gerontology

WS12-03-O/P

CD36 is an inhibitory CpG ODN/CXCL14 receptor that limits the tumor-suppressive activity

○ Kosuke Tanegashima¹⁾, Manaka Hasebe^{1,2)}, Risa Saito^{1,3)}, Riku Takahashi^{1,3)}, Takahiko Hara^{1,2,3)}

¹⁾Stem cell project, Tokyo Metropolitan Institute of Medical Science, ²⁾Grad. Sch. of Tokyo Metropol. Univ., ³⁾Grad. Sch. of Tokyo Medical and Dental Univ.

WS12-04-P

Role of autophagy in the maintenance of NK cell effector function

○ Kairi Murakoshi, Yui Shinzawa, Ka He, So-ichiro Sasaki, Yoshihiro Hayakawa

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

WS12-05-O/P

Characterization of anti-asialo-GM1 monoclonal antibodies

○ Ka He¹⁾, Tatsuji Kimura²⁾, Kazuyoshi Takeda³⁾, Yoshihiro Hayakawa¹⁾

¹⁾Institute of Natural Medicine, University of Toyama, ²⁾Diagnostic Division, Yamasa Corporation, ³⁾Laboratory of Cell Biology, Graduate School of Medicine, Juntendo University

WS12-06-P

Calreticulin, a ligand for NCR1 is induced on adipocytes by lipid peroxidation products derived from high-fat diet and activates group 1 innate lymphoid cells in adipose tissues

○ Kazunori Matsumura, Satoshi Takaki

Department of Immune Regulation, The Research Center for Hepatitis and Immunology, Research Institute, National Center for Global Health and Medicine

WS12-07-P

Natural killer cells eliminate senescent dermal fibroblasts

○ Ayami Iijima, Tatsuya Hasegawa

MIRAI Technology Institute, Shiseido Co., Ltd., Yokohama, Japan

WS12-08-O/P

PD-L1 expressing CD127⁺ ILC1s inhibit PD-1⁺ γδ T cells in the mesenteric adipose tissue to alleviate murine peritonitis

○ Ritsu Nagata^{1,3)}, Yuichi Akama⁴⁾, Pedro Goncalves⁵⁾, Nicolas Serafini⁵⁾, Tomoko Kageyama²⁾, Manami Satoh^{1,3)}, Motomu Shimaoka⁴⁾, Hiroshi Ohno^{1,3)}, Naoko Satoh-Takayama^{2,3)}

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WS12-09-O/P

ILC1-Derived Amphiregulin Regulates Epithelial Turnover in Response to Mechanical Stress in the Skin

○ Tetsuro Kobayashi¹⁾, Daisuke Asanuma²⁾, Shigeyuki Namiki²⁾, Kenzo Hirose²⁾, Kazuyo Moro^{1,3,4)}

¹⁾Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾Department of Pharmacology, Graduate School of Medicine, The University of Tokyo,

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WS12-10-P

TL1A/DR3 signaling mediates corticosteroid insensitivity in ILC2s

○ Hiromi Matsuyama, Kentaro Machida, Yoichi Dotake, Takahiro Matsuyama, Koichi Takagi, Kentaro Tanaka, Hiromasa Inoue

Department of Pulmonary Medicine, Graduate School of Medical and Dental Sciences, Kagoshima University

WS12-11-O/P

Identification of a FURIN-Dependent ILC2 Regulatory Mechanism Not Mediated by the p38-GATA3 Pathway

○ Takuya Yashiro¹⁾, Kazuyo Moro^{1,2,3)}

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WS12-12-P

The roles of group2 innate lymphoid cells in intestinal inflammation

○ Emi Irie^{1,3)}, Ichiro Mizushima¹⁾, Ka Kan¹⁾, Yuta Kaieda¹⁾, Junya Tsunoda^{1,2)}, Yohei Mikami¹⁾, Takanori Kanai¹⁾

¹⁾Division of Gastroenterology and Hepatology, Department of Internal Medicine, Keio University School of Medicine, ²⁾Department of Surgery, Keio University School of Medicine, ³⁾Center for preventive medicine, Keio University

WS12-13-P

DNAM-1 exacerbates intestinal inflammation by activating ILC3 via the Akt/mTORC1/HIF-1α signaling pathway

○ Natsuki Ide^{1,2)}, Kazuki Sato¹⁾, Kenshiro Matsuda^{1,3)}, Kazuko Shibuya^{1,3)}, Akira Shibuya^{1,3,4)}

¹⁾Department of Immunology, Institute of Medicine, University of Tsukuba, ²⁾Ph.D. Program in Human Biology, ³⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, ⁴⁾TNAX Biopharma Inc.

WS12-14-P

Group 3 innate lymphoid cells regulate ketogenesis

○ Takuma Misawa, Shigeo Koyasu

Laboratory for Immune Cell Systems, RIKEN IMS

WS12-15-O/P

Dietary antigens enhance ILC3s and regulate intestinal homeostasis○ Ayana Mori^{1,2}, Shiho Nagata^{1,3}, Tomoko Kageyama², Naoko Tachibana³, Hiroshi Ohno^{3,4}, Naoko Satoh-Takayama^{1,2}¹Immunobiology Laboratory, Graduate School of Medical Life Science, Yokohama City University, Yokohama, Japan, ²Precision Immune Regulation RIKEN ECL research Unit, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ³Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ⁴Laboratory for Immune Regulation, Graduate School of Medicine, Chiba University, Chiba, Japan

WS12-16-O/P

Development of a novel proliferation method of invariant Natural Killer T cells

○ Kiwamu Motoyoshi, Takahiro Aoki, Mariko Takami, Shinichiro Motohashi

Department of Medical Immunology, Graduate school of medicine, Chiba University

WS12-17-P

Effects on metabolic diseases caused by high-fat diet in CD1dKO mice○ Hiroki Ishikawa¹, Ryuichi Nagashima^{1,2}, Yoshihiro Kuno^{1,3}, Hiraku Sasaki⁴, Chikara Kohda¹, Masayuki Iyoda^{1,3}¹Department of Microbiology and Immunology, Showa University School of Medicine, ²Division of Immunology, Department of Biosciences, Kitasato University School of Science, ³Division of Nephrology, Department of Medicine, Showa University School of Medicine, ⁴Department of Health Science, Faculty of Health and Sports Science, Juntendo University

WS12-18-P

Follicular helper NKT cells induced prominent humoral immune responses: a possible cooperation with non-canonical B cells○ Koji Hayashizaki^{1,2}, Shogo Takatsuka³, Toshio Kanno⁴, Masato Kubo⁵, Yoshimasa Takahashi², Daisuke Kitamura⁶, Yusuke Endo⁴, Yuki Kinjo^{1,2}¹Department of Bacteriology, The Jikei University School of Medicine, ²Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ³Department of Fungal Infection, National Institute of Infectious Diseases, ⁴Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ⁵Division of Molecular Pathology, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science, ⁶Division of Cancer Cell Biology, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science

WS12-19-P

The unfolded protein response controls group 3 innate lymphoid cells in intestinal homeostasis and inflammation

○ Siyan Cao, Marco Colonna

Washington University in St. Louis

WS12-20-P

Inflammatory imprinting of ILC3 in the tumor progression

○ Chloé Papapetropoulos, Zacarias Garcia, Solenne Marie, Capucine Grandjean, Philippe Bousso, James Di Santo, Nicolas Serafini

Innate Immunity Unit, Institut Pasteur, Inserm U1223

December 3

WS13 Hematopoiesis and immune environment

WS13-01-O/P

Identification and characterization of CXCL13 producers in bone tissue○ Takuma Okawa¹, Motoyoshi Nagai^{1,2}, Kazuaki Nakata², Taeko Dohi¹, Yuki I. Kawamura², Shinya Fujita³, Keiyo Takubo^{3,4}, Koichiro Suzuki¹, Koji Hase^{1,5,6}¹Graduate School of Pharmaceutical Science, Keio University, ²Clinical Research Advancement Section, Research institute, National Center for Global Health and Medicine, ³Department of Stem Cell Biology, Research institute, National Center for Global Health and Medicine, ⁴Department of Cell Fate Biology and Stem Cell Medicine, Tohoku University Graduate School of Medicine, ⁵The Institute of Fermentation Sciences, Faculty of Food and Agricultural Sciences, Fukushima University, ⁶International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo

WS13-02-P

Exploring the splenic stromal cell populations that serve as the extramedullary hematopoietic niche○ Ayumi Itabashi¹, Kazuo Okamoto², Kazuo Somiya¹, Hiroshi Takayanagi¹¹Department of Immunology, The University of Tokyo, ²Division of Immune Environment Dynamics, Cancer Research Institute of Kanazawa University

WS13-03-O/P	<p>Systemic inflammation skews cell fate of common lymphoid progenitors</p> <p>○ Masashi Kanayama, Toshiaki Ohteki Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University (TMDU)</p>
WS13-04-P	<p>Effects of Ectopic Tertiary Lymphoid Structures on Salivary Gland Tissue in Aged Mice</p> <p>○ Hiroaki Abe, Erika Yamashita, Masaru Ishii Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University</p>
WS13-05-P	<p>Characterization and functional analysis of myeloid cells derived from long-term proliferating cultured common lymphoid progenitors</p> <p>○ Yohei Kawano, Mizuki Moriyama, Shun Ohki, Nozomi Katsuya, Yasuo Kitajima, Tomoharu Yasuda Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University</p>
WS13-06-P	<p>Resident cDC2 subset presents lymph-borne antigens to helper T cells in the lymph node DCP</p> <p>○ Madoka Ozawa, Tomoya Katakai Department of Immunology, Niigata University Graduate School of Medical and Dental Sciences</p>
WS13-07-P	<p>Dynamic changes in DNA methylation during mononuclear phagocyte differentiation</p> <p>○ Takaya Yamasaki, Akira Nishiyama, Tomohiko Tamura Department of Immunology, Yokohama City University Graduate School of Medicine</p>
WS13-08-O/P	<p>A novel synergistic activity of bHLH transcription factor E2A and Erg instructs B cell lineage commitment by regulating the enhancer landscape</p> <p>○ Reiko Hidaka, Kazuko Miyazaki, Hiroshi Kawamoto, Masaki Miyazaki Kyoto University, Institute for Life and Medical Sciences, Department of Immunology.</p>
WS13-09-O/P	<p>Non canonical Polycomb group proteins regulate T cell development in a sex-dependent manner</p> <p>○ Mayumi Hirakawa, Tomokatsu Ikawa Division of Immunology and allergy, Research Institute for Biomedical Sciences, Tokyo University of Science</p>
WS13-10-P	<p>Analyses of the role of transient receptor melastatin 7 in early T cell development</p> <p>○ Masatsugu Oh-hora¹⁾, Tomoaki Koga²⁾, Mitsuyoshi Nakao²⁾, Takehiko Yokomizo¹⁾ ¹⁾Dept. of Biochemistry, Juntendo University School of Medicine, ²⁾Dept. of Medical Cell Biology, Institute of Molecular Embryology and Genetics, Kumamoto University</p>
WS13-11-P	<p>Unraveling relevance of phosphorylation on multiple tyrosine residues in Runx1 during thymocyte differentiation</p> <p>○ Zhizhen Qin^{1,2)}, Ichiro Taniuchi¹⁾ ¹⁾Laboratory for Transcriptional Regulation, Center for Integrative Medical Science, RIKEN, ²⁾Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University</p>
WS13-12-P	<p>Regulation of positive-selection threshold by transcription factor SATB1</p> <p>○ Taku Naito, Marii Ise, Yuriko Tanaka, Taku Kuwabara, Motonari Kondo Dept of Mol Immunol, Toho University School of Medicine</p>
WS13-13-O/P	<p>CD69 controls regulatory T cell generation in the thymus</p> <p>○ Yukihiro Endo, Nanako Yasujima, Taiyo Sasayama, Ichita Hasegawa, Yangsong Wang, Shunka Kano, Ryo Nasu, Motoko Kimura Department of Experimental Immunology, Graduate School of Medicine, Chiba University</p>
WS13-14-P	<p>A crucial role of autophagy in neonatal thymus in autoimmunity</p> <p>○ Shigefumi Matsuzawa^{1,2)}, Aya Ushio^{1,3)}, Ruka Nagao¹⁾, Kunihiro Otsuka¹⁾, Takaaki Tsunematsu¹⁾, Naozumi Ishimaru^{1,3)} ¹⁾Department of Oral Molecular Pathology, Graduate School of Biomedical Sciences, Tokushima University, ²⁾Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University, ³⁾Department of Oral Pathology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University</p>
WS13-15-P	<p>The role of IL-7 in formation of the medullary microenvironment in the thymus</p> <p>○ Marii Ise, Yuriko Tanaka, Taku Naito, Taku Kuwabara, Motonari Kondo Department of Molecular Immunology, Faculty of Medicine, Toho University</p>

WS13-16-O/P

A single-cell analysis revealed tissue-restricted antigen-expressing fibroblasts accumulated in epithelium-free areas in rat thymic medulla

○ Yasushi Sawanobori, Yusuke Kitazawa, Hisashi Ueta, Nobuko Tokuda

Anatomy, Dokkyo Medical University

WS13-17-P

Neural Crest-Derived Mesenchymal Cells Produce Factors That Support Thymic Reconstitution Following Irradiation

○ Doris Narki Tetteh¹⁾, Mari Hikosaka Kuniishi^{2,1)}, Martin Mawuli Agbove¹⁾, Hidetoshi Yamazaki¹⁾

¹⁾Mie University, ²⁾University of Toyama

WS13-18-P

Depletion of K14-Driven Thymic Epithelial Cells Leads to Abnormal T cell Regeneration

○ Martin Mawuli Agbove, Doris Narki Tetteh, Hidetoshi Yamazaki

Mie University

WS13-19-P

Prediction and evaluation of amino acid residues required for binding of HLA and β 2m by in silico analysis

○ Ryoya Kobayashi¹⁾, Tomohiro Shirayanagi¹⁾, Tyuji Hoshino²⁾, Shigeki Aoki¹⁾, Kousei Ito¹⁾

¹⁾Chiba University, Graduate School of Pharmaceutical Sciences, Laboratory of Biopharmaceutics, ²⁾Chiba University, Graduate School of Pharmaceutical Sciences, Department of Physical Chemistry

WS13-20-P

Age-related thymic involution occurs in Fas-deficient mice

○ Nayu Shimamoto¹⁾, Takeshi Nitta²⁾, Hiroshi Takayanagi¹⁾

¹⁾Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ²⁾Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science

WS13-21-P

Immunosuppression in anti-FVIII Response by Loss of Tlx1 Expression in the Postnatal Splenic Mesenchymal Stem Cells in Mice with Hemophilia A

○ Akihisa Oda¹⁾, Shoko Furukawa¹⁾, Atsushi Hara²⁾, Kaito Yasuike²⁾, Masahiro Kitabatake²⁾, Noriko Oujii-Sageshima²⁾, Tomohiro Ito²⁾, Kenichi Ogiwara¹⁾, Ryo Goitsuka³⁾, Keiji Nogami¹⁾

¹⁾Department of Pediatrics, Nara Medical University, ²⁾Department of Immunology, Nara Medical University, ³⁾ Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science

WS13-22-P

Characterization of immune cell populations in aged mice

○ Daisuke Aki¹⁾, Yoshiko Mori-Saitoh¹⁾, Shin-Ichiroh Saitoh¹⁾, Akihiko Yoshimura²⁾

¹⁾Wakayama Medical University, ²⁾Tokyo University of Science

WS13-23-P

T cell immune response and cytokine gene expression activated by probiotics.

Mai Shiohata¹⁾, Hirokazu Sakuma¹⁾, ○ Kahoko Hashimoto^{1,2)}, Kahoko Hashimoto^{1,2)}, Naoko Kurosaki^{1,2)}

¹⁾Chiba Institute of Technology, ²⁾Chiba Institute of Technology, Graduate School of Engineering

WS13-24-P

Development of an automatic PBMC/target cells separator from peripheral blood with high performance and high specificity for the research into immunotherapy

○ Hiromitsu Tazawa¹⁾, Osamu Kikuchi^{1,2)}, Yuki Furuya¹⁾, Hidedgi Tajima⁴⁾, Kazumi Sawakami⁴⁾, Manabu Muto^{1,3)}

¹⁾Clinical Bioresource Center, Kyoto University Hospital, ²⁾Center for Cancer Immunotherapy and Immunobiology, ³⁾Clinical Oncology, Kyoto University Hospital, ⁴⁾Precision System Science Inc.

WS13-25-P

Changes in immune cell composition in mice irradiated with low-dose-rate gamma rays

○ Daisaku Takai¹⁾, Akiko Abe²⁾, Toshiyuki Kobayashi¹⁾

¹⁾Institute for Environmental Sciences, ²⁾JAC Co. Ltd.

WS13-26-O/P

Single-particle phenotyping of immune cell-derived extracellular vesicles *in vivo* based on their tracking system

○ Tomoya Hayashi^{1,2,3)}, Shuntaro Shimizu^{1,2,3,4)}, Kouji Kobiyama^{1,2,3)}, Hideo Negishi^{1,2,3)}, Burcu Temizoz^{1,2,3)}, Ken J Ishii^{1,2,3)}

¹⁾Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo (IMSUT),

²⁾International Vaccine Design Center, IMSUT, ³⁾The University of Tokyo Pandemic Preparedness, Infection and Advanced Research Center (UTOPIA), The University of Tokyo, ⁴⁾Department of Chemistry, Chemical Engineering & Life Science, Yokohama National University

WS13-27-P

Functional analysis of BRCA2 in hematopoiesis

○ Kosuke Yamazaki^{1,2)}, Tomohiro Iguchi²⁾, Midori Yamaguchi²⁾, Manami Sano²⁾, Kazuto Takayasu²⁾, Kosuke Yusa⁴⁾, Masato Kanemaki³⁾, Ichiro Taniuchi⁵⁾, Hisao Masai^{2,1)}, Hiroyuki Sasanuma²⁾

¹⁾The University of Tokyo, ²⁾Tokyo Metropolitan Institute of Medical Science, ³⁾National Institute of Genetics, ⁴⁾Kyoto Univ., ⁵⁾RIKEN

WS13-28-P

Semaphorin 6D regulates emotional, metabolic and inflammatory outputs through supporting synaptic maturation and GABAergic signaling in the amygdala

○ Mayuko Izumi¹⁾, Yoshimitsu Nakanishi¹⁾, Sujin Kang²⁾, Atsushi Kumanogoh¹⁾

¹⁾Department of Respiratory Medicine and Clinical Immunology, Graduate School of medicine, Osaka University, ²⁾Laboratory of Immune Regulation, WPI-IFReC, Osaka University

WS13-29-P

Angiopoietin-like 4 regulates the myofibroblast differentiation in pulmonary fibrosis through the regulation of lipid metabolism

○ Masahiro Kitabatake¹⁾, Hinata Wade¹⁾, Atsushi Hara¹⁾, Akihisa Oda²⁾, Ryutaro Furukawa¹⁾, Noriko Ouji-Sageshima¹⁾, Toshihiro Ito¹⁾

¹⁾Department of Immunology, Nara Medical University, ²⁾Department of Pediatrics, Nara Medical University

December 3

WS14 Macrophage (Session 2)

WS14-01-O/P

Retinoid X receptor activation facilitates the differentiation of monocytes into CX₃CR1^{hi} macrophages via mitochondrial metabolism

○ Hinata Sugiyama¹⁾, Masayoshi Onuki¹⁾, Wakana Ohashi^{1,2)}, Yuta Takamura³⁾, Hiroki Kakuta³⁾, Koji Hase^{1,4)}

¹⁾Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio Univ., ²⁾School of Pharmaceutical Sciences, Shizuoka Univ.,

³⁾Graduate School of Medicine Dentistry and Pharmaceutical Sciences, Okayama Univ., ⁴⁾IFeS, Fukushima Univ.

WS14-02-P

***In vitro* differentiation of THP-1 cells into M1 macrophage-like cells and their cell-dynamics**

○ Akira Yamauchi¹⁾, Shuichiro Okamoto¹⁾, Kei Miyano²⁾, Yasumitsu Nishimura³⁾, Einosuke Ikeshita⁴⁾, Futoshi Kuribayashi¹⁾

¹⁾Kawasaki Medical School, Department of Biochemistry, ²⁾Kawasaki Medical School, Department of Natural Sciences, ³⁾Kawasaki Medical School, Department of Hygiene, ⁴⁾Kawasaki Medical School, Undergraduate 3rd grade

WS14-03-O/P

Fibroblast-derived CSF1 supports gut mucosal macrophage pool and resistance to bacterial infection

○ Soichiro Yoshida¹⁾, Daichi Nonaka¹⁾, Eriko Sumiya^{1,2)}, Shinichiro Sawa¹⁾

¹⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, ²⁾Present address: Department of Orthopedic Surgery, Faculty of Medicine, The University of Tokyo

WS14-04-O/P

Periportal macrophages protect against commensal-driven liver inflammation

○ Yu Miyamoto^{1,2)}, Masaru Ishii^{1,2)}

¹⁾Department of Immunology and Cell Biology, WPI-Immunology Frontier Research Center, Osaka University, ²⁾Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University

WS14-05-P

Exploring anti-inflammatory benefits of heparin in a murine abortion model

○ Yasuyuki Negishi^{1,2)}, Tomoko Ichikawa²⁾, Takami Watanabe²⁾, Satoko Nakamura³⁾, Hajime Ino^{1,2)}, Yumi Horii^{1,2)}, Yuki Kaito²⁾, Shunji Suzuki²⁾, Rimpei Morita¹⁾

¹⁾Department of Microbiology and Immunology, Nippon Medical School, ²⁾Department of Obstetrics and Gynecology, Nippon Medical School,

³⁾Faculty of Medicine, Nippon Medical School

WS14-06-P

Suppressive effects of Seric acid from *Seri* (*Oenanthe javanica*) on macrophage-mediated inflammation

○ Yuto Nakata¹⁾, Eri Isowaki²⁾, Tatsuo Katagiri³⁾, Wataru Ouchi⁴⁾, Toshihiro Murata⁴⁾

¹⁾University of Toyama, Graduate School of Medicine and Pharmaceutical Sciences, ²⁾University of Toyama, Faculty of Pharmaceutical Sciences,

³⁾University of Toyama, Liberal arts and sciences, ⁴⁾Tohoku Medical and Pharmaceutical University, Faculty of Pharmaceutical Sciences, Division of Pharmacognosy

WS14-07-P

Activation of $\alpha 7$ nicotinic acetylcholine receptor attenuates inflammation through decreasing cellular glutathione levels

○ Ayaka Ito^{1,2,3)}, Yoshihiro Nanahara^{1,4)}, Ibuki Shirakawa^{1,3)}, Mitsuko Kobayashi^{1,3)}, Zhengshijian Pu^{1,3)}, Hiroshi Arima⁴⁾, Takayoshi Suganami^{1,3)}

¹⁾Research Institute of Environmental Medicine, Nagoya University, ²⁾Institute for Advanced Research, Nagoya University, ³⁾Department of Immunometabolism, Nagoya University Graduate School of Medicine, ⁴⁾Department of Endocrinology and Diabetes, Nagoya University Graduate School of Medicine

WS14-08-O/P

MAFB in Macrophages Regulates Sympathetic Neuron Density in Cold-Induced Brown Adipose Tissue

○ Michito Hamada¹⁾, Manoj Kumar Yadav²⁾, Megumi Ishida¹⁾, Natalia Gogoleva¹⁾, Ching-Wei Liao¹⁾, Maho Kanai¹⁾, Akihiro Kuno¹⁾, Satoru Takahashi¹⁾

¹⁾Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, ²⁾National Institutes of Health, Bethesda, MD 20892, USA

WS14-09-O/P

GPR35 signal regulates a regulatory macrophage subset in the adipose tissue

○ Misato Mizutani, Rin Sugiyama, Akane Ishida, Katsuhiro Nakanishi, Wakana Ohashi, Eiji Umemoto

Laboratory of Microbiology and Immunology, University of Shizuoka

WS14-10-O/P

The roles of macrophages in parturition

○ Sunao Matsuzaka, Haruta Mogami, Yu Matsuzaka, Eriko Yasuda, Masahito Takakura, Yoshitsugu Chigusa, Masaki Mandai

Department of Gynecology and Obstetrics, Kyoto University Graduate School of Medicine

WS14-11-P

Identification of a novel neuron-associated macrophage in the liver

○ Aoi Takino¹⁾, Yu Miyamoto^{2,3)}, Masaru Ishii^{1,2,3)}

¹⁾Department of Immunology and Cell Biology, Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan, ²⁾Department of Immunology and Cell Biology, Graduate School of Medicine, Osaka University, Osaka, Japan, ³⁾WPI-Immunology Frontier Research Center, Osaka University, Osaka, Japan

WS14-12-P

Analysis of senescence induction and characterization in THP-1

○ Kyoko Nishida-Tamehiro

Biotechnology Group, Tokyo Metropolitan industrial technology research institute

WS14-13-O/P

Notch signaling regulates macrophage heterogeneity in liver disease

○ Hongyan Qin

State Key Laboratory of Holistic Integrative Management, Department of Medical Genetics and Developmental Biology, Fourth Military Medical University

WS14-14-P

Down-regulation of pro-tumorigenic cytokines by the inhibition of LRRC8A Cl⁻ channel through NOX2-Nrf2 signaling pathway in THP-1-differentiated M₂ macrophages

○ Susumu Ohya, Miki Matsui

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

WS14-15-P

Unique cell harvesting technology without using Scraper or Trypsin

○ Eriko Ikeda, Asumi Yoshihara, Yuzo Kasuya

CellSeed Inc.

December 3

WS15 Infection immunity 2

WS15-01-O/P

Hepatic ILC1s confer host protection against viral infection during undernutrition

○ Megumi Tatematsu¹⁾, Shunsuke Takasuga¹⁾, Akane Fuchimukai¹⁾, Tsukasa Nabekura²⁾, Akira Shibuya³⁾, Koichi Ikuta⁴⁾, Takashi Ebihara^{1,5)}

¹⁾Akita University Graduate School of Medicine, ²⁾Aichi Cancer Center Research Institute, Division of Immune Response, ³⁾Faculty of Medicine, and Center for TARA, University of Tsukuba, ⁴⁾Center for Medical Education and Internationalization Graduate School of Medicine and Faculty of Medicine, Kyoto University, ⁵⁾Center for Integrated Control, Epidemiology and Molecular Pathophysiology of Infectious Diseases, Akita University

WS15-02-P

RSV-induced Gas6/Axl promotes the growth of nasopharyngeal colonized *Streptococcus pneumoniae*

○ Saki Ishikawa, Takehiko Shibata

Tokyo Medical University, Department of Microbiology

WS15-03-O/P

Non-canonical type I IFNs are regulated by cholesterol synthesis pathway and prime the RIG-I mediated antiviral innate immune signaling○ Tasuku Nishimura¹⁾, Takahisa Kouwaki^{1,2)}, Ken Takashima^{1,2)}, Hiroyuki Oshiumi^{1,2)}¹⁾Department of Immunology, Graduate School of Medical Sciences, Kumamoto University, ²⁾Department of Immunology, Faculty of Life Sciences, Kumamoto University

WS15-04-O/P

Regnase-1 haploinsufficiency restricted SARS-CoV-2 pneumonia in mice by reducing a neutrophil subset with the interferon-stimulated gene signature○ Kotaro Tanaka¹⁾, Keiko Yasuda^{1,2)}, Junichi Aoki¹⁾, Osamu Takeuchi¹⁾¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾Department of Immunology Nagoya City University Graduate School of Medical Sciences

WS15-05-O/P

The establishment of a transgenic mouse system to analyze HTLV-1-driven CD4⁺ T cell immortalization mechanism○ M Ishrat Jahan¹⁾, Kenji Sugata¹⁾, Koki Nimura⁵⁾, Takushi Nomura¹⁾, Nobuko Irie²⁾, Kimi Araki⁴⁾, Masahiro Ono^{3,2)}, Yorifumi Satou^{1,2)}¹⁾Joint research center for Human Retrovirus infections, Kumamoto University, ²⁾International Research Center for Medical Sciences (IRCMS), Kumamoto University, ³⁾Department of Life Sciences, Imperial College London, ⁴⁾Division of Developmental Genetics, Institute of Resource Development and Analysis, Kumamoto University, ⁵⁾School of Medicine, Kumamoto University, Japan

WS15-06-P

Dectin-2 contributes to antigen-specific IgM and IgG3 production against influenza virus polysaccharide○ Hideki Yamamoto¹⁾, Natsuo Yamamoto^{2,3)}, Tsuyoshi Suzuki²⁾, Yoichiro Iwakura⁴⁾, Chikako Tomiyama¹⁾¹⁾Department of Medical Technology, Graduate School of Health Sciences, Niigata University, Niigata, Japan, ²⁾Department of Emergency and Critical Care Medicine, Fukushima Medical University, Fukushima, Japan, ³⁾Virus Research Center, Sendai Medical Center, National Hospital Organization, Sendai, Japan, ⁴⁾Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Noda, Japan

WS15-07-P

Immune responses and effectiveness of stockpiled pre-pandemic influenza vaccine in mice○ Hideki Asanuma¹⁾, Tetsuro Tanabe²⁾, Hideaki Inui²⁾, Shinji Watanabe¹⁾, Yasushi Suzuki¹⁾, Tomoko Arita¹⁾, Masayuki Shirakura¹⁾, Noriko Kishida¹⁾, Kaori Sano¹⁾, Hideki Hasegawa¹⁾¹⁾National Institute of Infectious Diseases, ²⁾KM Biologics Co., Ltd.

WS15-08-O/P

Immunological evaluation of post-fusion influenza vaccine adjuvanted with DSP-0546LP in the non-human primate model○ Ayae Nishiyama¹⁾, Yuji Masuta¹⁾, Yu Adachi²⁾, Hidenori Kimura³⁾, Akihisa Fukushima³⁾, Yoshimasa Takahashi²⁾, Takuya Yamamoto¹⁾¹⁾Laboratory of Precision Immunology, Center for Intractable Diseases and ImmunoGenomics research, National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ³⁾Sumitomo Pharma. Co., Ltd.

WS15-9-P

Preventive effects of Okinawamozuku-derived fucoidan on flu virus infection○ Yoshiyuki Miyazaki^{1,2)}, Hayato Nakano³⁾, Shugo Takeuchi⁴⁾, Hideaki Takeuchi⁵⁾, Toshiya Satoyama²⁾, Naoto Hirose¹⁾, Daisuke Tachikawa^{1,2,6)}¹⁾Kyushu University, ²⁾NPO Research Institute of Fucoidan, ³⁾Ventuno Co., Ltd., ⁴⁾Kaisou-sci. Corp., ⁵⁾Kameryca Inc., ⁶⁾Wakamiya Hospital

WS15-10-O/P

Binding analysis of HIV-2 Nef protein with host CD3 intracellular motif○ Ryota Koseki¹⁾, Idai Ozawa¹⁾, Kengo Hirao¹⁾, Masato Sumi¹⁾, Takashi Tadokoro²⁾, Sophie Andrews³⁾, Sarah Rowland-Jones³⁾, Kimiko Kuroki¹⁾, Katsumi Maenaka¹⁾¹⁾Hokkaido university, ²⁾Sanyo-Onoda City University, ³⁾University of Oxford

WS15-11-P

Therapeutic efficacy of an adjuvant-containing live-attenuated AIDS vaccine in pathogenic SHIV-infected cynomolgus macaques

○ Tomotaka Okamura, Yasuhiro Yasutomi

Tsukuba Primate Research Center, National Institutes of Biomedical Innovation, Health and Nutrition

WS15-12-P

Evaluation of neutralizing monoclonal antibody against HTLV-1 infection in non-human primate HTLV-1 model

○ Emiko Urano¹⁾, Yuetsu Tanaka²⁾, Yasuhiro Yasutomi¹⁾

¹⁾National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾University of the Ryukyus

WS15-13-P

Regulatory mechanisms of Th17 cells in the pathogenesis of oral candidiasis

○ Emi Kaji^{1,2)}, Kenji Toyonaga¹⁾, Sonoko Tasaki¹⁾, Jun-ichi Nagao^{1,3)}, Sari Kishikawa¹⁾, Masanobu Nakagami¹⁾, Aoba Iwanuma¹⁾, Satoru Iwai¹⁾, Yoshihiko Tanaka^{1,3)}

¹⁾Div Infect Biol., Fukuoka Dent Coll., ²⁾Div Anesthesiol., Fukuoka Dent Coll., ³⁾Oral Med Res Cent., Fukuoka Dent Coll.

WS15-14-P

Functional analysis of signaling adaptor in a murine candidiasis model

○ Kenji Toyonaga^{1,2)}, Jun-ichi Nagao^{1,2)}, Sonoko Tasaki¹⁾, Masayuki Umemura³⁾, Sari Kishikawa^{1,2)}, Satoru Iwai¹⁾, Emi Kaji¹⁾, Aoba Iwanuma¹⁾, Masanobu Nakagami¹⁾, Kanae Negoro-Yasumatsu^{1,2)}, Kesisaku Matsuzaki¹⁾, Yoshihiko Tanaka^{1,2)}

¹⁾Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental College, ²⁾Oral Medicine Research Center, Fukuoka Dental College, ³⁾Molecular Microbiology Group, Department of Infectious Diseases, Tropical Biosphere Research Center, and Department of Host Defense, Graduate School of Medicine, University of the Ryukyus

WS15-15-O/P

Sex bias in the immune response to the emerging fungal pathogen *Sporothrix brasiliensis*

○ Fabio Seiti Yamada Yoshikawa¹⁾, Sandro Rogerio de Almeida²⁾, Shinobu Saijo¹⁾

¹⁾Medical Mycology Research Center, Chiba University, Chiba, Japan, ²⁾Faculty of Pharmaceutical Sciences, University of Sao Paulo, Sao Paulo, Brazil

WS15-16-O/P

PILRs and their SNP mutations are involved in the regulation of host immune responses against the pathogenic fungus, *Aspergillus fumigatus*

○ Yasunobu Miyake, Hiroki Yoshida

Saga University, Faculty of Medicine

WS15-17-P

Age-related changes in type 2 immune responses and gut microbiota with nematode infection

○ Motoko Morimoto¹⁾, Hiromu Kurokawa¹⁾, Ayano Ogawa¹⁾, Wakako Ikeda-Ohtsubo²⁾

¹⁾Miyagi University, ²⁾Tohoku University

WS15-18-P

Visualization of four-dimensional immune responses to experimental cerebral malaria in C57BL/6 mice infected with *Plasmodium berghei* ANKA

○ Tomoyo Taniguchi, Tomoharu Urasoe, Teppei Yamakawa, Yuki Gibo, Yuta Hirose, Yuiko Ohtani, Kenta Oyafuso, Hiromu Toma, Hidehiro Kishimoto

Department of Immunology and Parasitology, Graduate School of Medicine, University of the Ryukyus

WS15-19-P

The roles of innate lymphoid cells in developing *Schistosoma mansoni* to a mature adult worm in severely immunocompromised mice

○ Risa Nakamura^{1,2,3)}, Megumi Hamasaki^{1,2,3)}, Hideki Muto⁴⁾, Shinjiro Hamano^{1,2,3)}

¹⁾Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki Univ., ²⁾Nagasaki University Graduate School of Biomedical Sciences Doctoral Leadership Program, ³⁾The Joint Usage/Research Center on Tropical Disease, NEKKEN, Nagasaki Univ., ⁴⁾Biomedical Research Support Center (BRSC), Nagasaki University School of Medicine

WS15-20-P

Spatial Distribution of Myeloid Immune Cells in Tick-Infested Mouse Skin

○ Jiali Yan¹⁾, Tetsuro Kobayashi²⁾, Maki Mizumura¹⁾, Kayoko Yamaji³⁾, Haruko Takeyama⁴⁾, Kazuyo Moro^{1,2,5)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Department of Tropical Medicine, Jikei University school of Medicine, ⁴⁾Biomolecular Engineering Laboratory, Waseda University, ⁵⁾Laboratory for Innate Immune Systems, iReC, Osaka University

December 4

WS16 TCR-mediated signaling

WS16-01-O/P

The difference of Lck interactomes in CD4+CD8- and CD4-CD8+ thymocytes

○ Junji Harada^{1,2)}, Ichiro Taniuchi¹⁾

¹⁾Laboratory for Transcriptional Regulation, Center for Integrative Medical Sciences, RIKEN, ²⁾Department of RIKEN Molecular and Chemical Somatology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University

WS16-02-P

Interactome analysis of transcription factors controlling T cell development

○ Kazuki Okuyama, Aneela Nomura, Ichiro Taniuchi
RIKEN IMS Lab for Transcriptional Regulation

WS16-03-P

Roles of TIR1-mediated iron homeostasis in the initiation of T lineage

○ Yuichi Kama, Seiya Mogi, Hiroyuki Hosokawa
Department of Immunology, Tokai University School of Medicine

WS16-04-P

Role of m6A-binding proteins Ythdc1 in thymic maturation and proliferation

○ Taku Kureha, Hiroshi Takayanagi
Graduate School of Medicine and Faculty of Medicine, The University of Tokyo

WS16-05-P

IL-18 primes T cells with an antigen-inexperienced memory phenotype for proliferation and differentiation into effector cells through Notch signaling

○ Wen Li¹⁾, Shinji Takai¹⁾, Denan Jin¹⁾, Yoshimasa Tanaka²⁾, Haruki Okamura¹⁾
¹⁾Department of Innovation Medicine, Osaka Medical and Pharmaceutical University, Japan, ²⁾Center for Medical Innovation, Nagasaki University, Nagasaki, Japan

WS16-06-O/P

The quantitative detection of T cells with biallelic TCRα rearrangements

○ Takahiro Iguchi¹⁾, Ryunosuke Muro²⁾, Takeshi Nitta²⁾, Hiroshi Takayanagi¹⁾
¹⁾Department of Immunology, Graduate School of Medicine, The University of Tokyo, ²⁾Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science

WS16-07-O/P

Human T cells broadly recognizing multiple mycobacterial lipids

○ Nanami Kamata^{1,2)}, Yuki Sakai^{1,2)}, Minoru Asa^{1,2)}, Hayato Kasai^{1,2)}, Sho Yamasaki^{1,2,3)}
¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), Osaka University, ³⁾Center for Infectious Disease Education and Research (CiDER), Osaka University

WS16-08-O/P

Single-cell analysis reveals age-related differences in T cell response to COVID-19 mRNA vaccines

○ Ayana Sunami^{1,2)}, Norihide Jo^{2,3)}, Yoko Hamazaki^{1,2,4)}
¹⁾Laboratory of Immunobiology, Graduate School of Medicine, Kyoto University, ²⁾Department of Life Science Frontiers, Center for iPS Cell Research and Application (CiRA), Kyoto University, ³⁾Alliance Laboratory for Advanced Medical Research, Graduate School of Medicine, Kyoto University, ⁴⁾Kyoto University Immunomonitoring Center (KIC)

WS16-09-O/P

Neoself-antigens are the primary target for autoreactive T cells in human lupus

○ Shunsuke Mori, Hisashi Arase
Laboratory of Immunochemistry, World Premier International Immunology Frontier Research Centre, Osaka University

WS16-10-P

Predictive Modeling of T-Cell Receptor-Epitope Interactions in Systemic Sclerosis Using a Dual-Attention Deep Learning Approach

○ Andi Nursanti Andi Ureng¹⁾, Rifaldy Fajar²⁾, Roland Helmizar³⁾, Prihantini Prihantini⁴⁾, Sahnaz Vivinda Putri⁵⁾
¹⁾Department of Pharmacy, Andini Persada College of Health Sciences, Indonesia, ²⁾Computational Biology and Medicine Laboratory, Yogyakarta State University, Indonesia, ³⁾Department of Internal Medicine, Baiturrahmah University, Indonesia, ⁴⁾Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Indonesia, ⁵⁾Health Management Laboratory, International University Semen Indonesia, Indonesia

WS16-11-P

Acquisition of glioblastoma-specific T cell receptor

○ Sora Yada, Kanami Tanaka, Hiroyuki Kishi, Eiji Kobayashi
University of Toyama

WS16-12-P

Identification of interdonor-conserved human CD4⁺ T cells that recognize a mycobacterial adjuvant, TMM, as an antigen

○ Yuki Sakai^{1,2)}, Minoru Asa^{1,2)}, Nagatoshi Fujiwara³⁾, Daisuke Motooka⁴⁾, Shinsuke Inuki⁵⁾, Go Hirai⁶⁾, Sho Yamasaki^{1,2,7)}
¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), Osaka University, ³⁾Department of Food and Nutrition, Faculty of Contemporary Human Life Science, Tezukayama University, ⁴⁾Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, ⁵⁾Graduate School of Biomedical Sciences, Tokushima University, ⁶⁾Graduate School of Pharmaceutical Sciences, Kyushu University, ⁷⁾Center for Infectious Disease Education and Research (CiDER), Osaka University

WS16-13-P

The impact of TCR affinity and differentiation state on clonal competition

○ Masaki Kurosu, Mikiya Tsunoda, Hiroyasu Aoki, Haruka Shimizu, Haru Ogiwara, Kouji Matsushima, Satoshi Ueha
Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science

WS16-14-P

CD6 regulates fine-tunes T cell activation by regulating the size of TCR signalosomes through its binding to CD166

○ Arata Takeuchi, Tetsushi Nishikawa, Hiroaki Machiyama, Ei Wakamatsu, Hitoshi Nishijima, Masae Furuhashi, Hiroko Toyota, Ryohei Matsushima, Tadashi Yokosuka
Department of immunology, Tokyo Medical University

WS16-15-P

STAP-1 is a novel adaptor protein to promote TCR-mediated T cell activation and autoimmune inflammation

○ Yuto Sasaki¹⁾, Teppei Takeda¹⁾, Fumiya Okuyama¹⁾, Jun-ichi Kashiwakura²⁾, Tadashi Matsuda¹⁾, Kenji Oritani³⁾
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WS16-16-O/P

M-cell-dependent commensal uptake confers encephalitogenic phenotypes on $\gamma\delta$ T17 cells in Peyer's patch

○ Seiga Komiyama¹⁾, Yuyo Ka²⁾, Tomoyuki Ogura²⁾, Satoshi Onawa³⁾, Hiroshi Watarai⁴⁾, Tsuneyasu Kaisho⁵⁾, Nobuyuki Udagawa⁶⁾, Daisuke Takahashi¹⁾, Koji Hase¹⁾
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WS16-17-O/P

Alterations of human liver $\gamma\delta$ T cells by CMV infection

○ Mouna Khan¹⁾, Hajime Morita¹⁾, Tashiaki Bando¹⁾, Lynn Zreka¹⁾, Shuhe Ma^{1,2)}, Daichi Akuzawa¹⁾, Yuki Masuo¹⁾, Shunsuke Uno¹⁾, Moyu Zhang¹⁾, Hideki Ueno^{1,2)}
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WS16-18-P

 $\gamma\delta$ T cell-mediated activation of cDC1 orchestrates CD4⁺ Th1 cell priming in malaria

○ Yarob Ibraheem¹⁾, Ganchimeg Bayarsaikhan¹⁾, Maria Lourdes Macalinao²⁾, Kazumi Kimura¹⁾, Katsuyuki Yui^{1,2,3)}, Taiki Aoshi¹⁾, Shin-Ichi Inoue¹⁾
¹⁾Nagasaki University, Graduate School of Biomedical Sciences, Department of Immunology, ²⁾School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan, ³⁾Shionogi Global Infectious Diseases Division, Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan

WS16-19-P

 $\gamma\delta$ T cells contribute to the abnormal behavior in Autism Spectrum Disorder via IL-17a signaling

○ Natsumi Awata, Ako Matsui, Minako Ito
Medical Institute of Bioregulation, Kyushu University

WS16-20-P

Molecular detection of an antigenic iNKT cell ligand in mammals

○ Hayato Kasai^{1,2)}, Yuki Hosono^{1,2)}, Noriyuki Tomiyasu⁴⁾, Yoshihiro Izumi⁴⁾, Akihiro Imamura⁵⁾, Eri Ishikawa^{1,2)}, Masatomo Takahashi⁴⁾, Hideharu Ishida⁵⁾, Takeshi Bamba⁴⁾, Sho Yamasaki^{1,2,3)}
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WS16-21-P

 $\alpha 4$ integrin-mediated T cell adhesion and migration are regulated by miR-200c-3p

○ Eun Jeong Park, Khwanchanok Mokmued, Motomu Shimaoka
Mie University Graduate School of Medicine

WS17 B cell activation and differentiation

WS17-01-O/P

Role of antigen and IgM persistent in endosome/lysosome in T cell-independent antibody response to polysaccharides

○ Asahi Nunokawa^{1,2}, Kana Matsumura¹, Huang Yuming¹, Takeshi Tsubata^{1,2}

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WS17-02-O/P

Essential roles of FcμR and complement activation in eliciting effective humoral immunity

○ Zichao Wen¹, Lulu Dong¹, Jun Liu¹, Qing Min², Ying Wang¹, Ziyang Hu³, Xiaoqian Feng¹, Chaoqun Cui¹, Yingying Luan¹, Yaxuan Li¹, Birgitta Heyman⁵, Ji-Yang Wang^{1,2,4}

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WS17-03-O/P

The contribution of IL-9 receptors on peritoneal B cells and ILC2 to the T-cell-independent immune responses

○ Mari Tenno, Takumi Umezu, Yuko Emoto, Haruna Sato, Kei Kato, Daisuke Kitamura

Toyko University of Science

WS17-04-O/P

Explore the alteration of B cell caused by *Bach2*-deficiency

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WS17-05-O/P

Plasma cell KLF2 expression at the induction site directs migration to the bone marrow

Wataru Ise^{1,2,8}, ○ Takuya Koike^{1,2,7,8}, Yuki Tai², Taiichiro Shirai³, Ryoji Kawakami⁴, Takeshi Inoue², Nozomi Hojo⁵, Katsuyuki Shiroguchi⁵, Kazuhiro Suzuki³, Tomohiro Kurosaki^{2,6,7}

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WS17-06-O/P

Autoreactive B cells are formed by somatic hypermutation without help of autoreactive T cells

○ Wataru Okada, Shun Tokumoto, Sano Nagano, Miya Yoshino, Koji Tokoyoda

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

WS17-07-O/P

Humanized BCR mice are a useful tool for analysis of autoreactive B cells

○ Rinka Ito¹, Yutaro Yada¹, Yasuhiro Kazuki², Yoshihiro Baba¹

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WS17-08-O/P

All-trans-retinoic acid suppresses age-associated B cell generation and ameliorates autoimmunity

○ Keisuke Imabayashi, Yoshihiro Baba

Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University

WS17-09-P

Newly Identified Gain-of-Function Mutation in BTK SH3 domain Promotes B-1 B Cell Expansion and Autoantibody Production

○ Xin Meng¹, Wenjie Wang², Hai Zhang², Lulu Dong³, Xin Lan⁴, Qing Min⁵, Jingjing Zhao¹, Meiping Yu², Lipin Liu², Xiaochuan Wang^{2,6}, Ji-Yang Wang^{3,2,5}

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WS17-10-P

Protein kinase D is essential for B cell activation and humoral immunity

○ Airi Shibata¹⁾, Keisuke Imabayashi¹⁾, Eri Ishikawa²⁾, Tomoharu Yasuda³⁾, Sho Yamasaki²⁾, Yoshihiro Baba¹⁾

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WS17-11-P

The roles of Cyclin-Dependent Kinase 9 in B activation

○ Shin-ichi Tsukumo, Koji Yasutomo

Tokushima University

WS17-12-P

Regulatory mechanisms of class-switch recombination of immunoglobulins via cis-regulatory elements for *Aicda* gene expression

○ Merumo Shimizu¹⁾, Kazuko Miyazaki¹⁾, Daisuke Kitamura²⁾, Hiroshi Kawamoto¹⁾, Masaki Miyazaki¹⁾

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WS17-13-P

B cell-intrinsic Arf1 plays a pivotal role in germinal center formation

○ Yui Kotani^{1,2)}, Mami Sumiyoshi¹⁾, Madoka Ozawa³⁾, Tomoya Katakai³⁾, Satoshi Matsuda¹⁾

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WS17-14-P

HuR/ELAVL1 is essential for the activation-induced cytidine deaminase- dependent decrease of Topoisomerase 1 in antibody diversification

○ Wajid Amin, Shoki Nishio, Maki Kobayashi, Tasuku Honjo

Kyoto University

WS17-15-P

Pulmonary administration of a nonreplicating adenoviral vector vaccine generates more potent and broader neutralizing IgGs against SARS-CoV-2 spike than intramuscular administration

○ Toshiro Hirai^{1,2)}, Koki Ueda²⁾, Mako Kakahara²⁾, Kazuo Takayama³⁾, Yasuo Yoshioka^{1,2,4,5)}

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WS17-16-P

Ca²⁺/calmodulin-dependent protein kinase II is involved in the regulation of IgE class switch recombination, but not the differentiation in human B cells

○ Kano Tanabe, Yukinori Kozuma

Faculty of Health Science, Kumamoto Health Science University

WS17-17-P

The critical role of H3K27me3 enzyme subunit Eed in the early phase of germinal center formation

○ Man Zhang, Yun Guo, Tomoharu Yasuda

Department of Immunology, Hiroshima University

WS17-18-P

A mutation type of activation-induced cytidine deaminase reveals novel functional regulation of class switch recombination

○ Yuchen Zhang^{1,2)}, Peng Gao¹⁾, Naoki Morita¹⁾, Ayako Isotani³⁾, Shunsuke Yuri³⁾, Reiko Shinkura^{1,2)}

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WS17-19-P

Regulation of humoral immunity by differential use of BACH1 and BACH2

○ Takeshi Kurasawa¹⁾, Akihiko Muto¹⁾, Mitsuyo Matsumoto²⁾, Kyoko Ochiai¹⁾, Ari Itoh³⁾, Kazutaka Murayama⁴⁾, Kazuhiko Igarashi^{1,5)}

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WS17-20-P

STAP-1 acts as a scaffold protein for positive regulation of CD40 signals in B cells

○ Shoya Kawahara¹⁾, Jun-ichi Kashiwakura²⁾, Kenji Oritani³⁾, Tadashi Matsuda¹⁾

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WS18 Infection immunity 3

WS18-01-P

The reactions of immune cells by bacteria specific modified nucleosides

○ Miho Shimamura, Yu Nagayoshi, Kayo Nishiguchi, Hitomi Kaneko, Ryosuke Yamamura, Kazuhito Tomizawa
Department of Molecular Physiology, Faculty of Life Sciences, Kumamoto University

WS18-02-P

Activation of caspase-11 exacerbates *Acinetobacter* infection through gasdermin D-driven membrane rupture

○ Yasuyuki Matsuda¹⁾, Hajime Yamauchi¹⁾, Go Kamoshida²⁾, Tsukasa Shiraishi³⁾, Shin-ichi Yokota³⁾, Hideki Hara¹⁾
¹⁾Asahikawa Med. Univ., ²⁾Meiji Pharm. Univ., ³⁾Sapporo Med. Univ.

WS18-03-P

Histone-lysine methyltransferase Setdb2 contributes to lethality of secondary bacterial pneumonia via regulating cytokines and chemokines in macrophages

○ Atsushi Hara, Masahiro Kitabatake, Noriko Oujii-Sageshima, Ryutaro Furukawa, Toshihiro Ito
Department of Immunology, Nara Medical University

WS18-04-P

Phosphorylation of JNK exacerbates *Staphylococcus aureus* infection by promoting inflammasome activation

Yasuyuki Matsuda¹⁾, Kei Sakamoto²⁾, Hajime Yamauchi¹⁾, Akihiko Yoshimura³⁾, Gabriel Nunez⁴⁾, ○ Hideki Hara¹⁾
¹⁾Asahikawa Med. Univ., ²⁾Yamaguchi Univ., ³⁾Tokyo Univ. Sci., ⁴⁾Univ. Michi.

WS18-05-P

A single-cell RNA-seq approach to analyze the interaction of *Salmonella* with the host immune system

○ Hirota Hiyoshi¹⁾, Mohamad Al Kadi²⁾, Maika Yamashita²⁾, Daisuke Okuzaki²⁾, Toshio Kodama¹⁾
¹⁾Institute of Tropical Medicine, Nagasaki University, ²⁾WPI immunology Research Center, Osaka University

WS18-06-P

Analysis of innate immune responses against *Streptococcus mutans*

○ Aoba Iwanuma^{1,2)}, Kenji Toyonaga^{1,3)}, Jun-ichi Nagao^{1,3)}, Satoru Iwai¹⁾, Sari Kishikawa^{1,3)}, Emi Kaji¹⁾, Masanobu Nakagami¹⁾, Keisaku Matsuzaki¹⁾, Kyoko Oka^{2,3)}, Yoshihiko Tanaka^{1,3)}
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WS18-07-P

Localization and characteristics of IL-17F in the mycobacteria-infected lungs

○ Masayuki Umemura^{1,2,3)}, Toshihiro Konno^{1,4)}, Giichi Takaesu^{1,2,5)}, Goro Matsuzaki^{1,2,5)}
¹⁾Mol. Microbiol., Trop. Biosphere Res. Ctr., Univ. Ryukyus, ²⁾Dept. Host Defense, Grad. Sch. Med., Univ. Ryukyus, ³⁾Exp. Anim. Res., Adv. Med. Res. Ctr., Fac. Med., Univ. Ryukyus, ⁴⁾Animal Func. Sci., Fac. Agr., Univ. Ryukyus, ⁵⁾Regen. Med., Adv. Med. Res. Ctr., Fac. Med., Univ. Ryukyus

WS18-08-P

Inherited CARD9 deficiency complicated with central nervous system *Mycobacterium avium* complex infection

○ Tomonari Shigemura^{1,2)}, Haruo Nagumo³⁾, Norimoto Koabayashi⁴⁾, Kazunaga Agematsu⁵⁾, Takamasa Saito¹⁾, Takashi Kurata⁵⁾, Shiho Asaka^{6,9)}, Tomomi Yamaguchi^{7,8)}, Tomoki Kosho^{7,8)}, Yozo Nakazawa¹⁾
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WS18-09-P

Caspase-12 is an innate immune sensor for bacteria-associated molecular patterns

○ Kohsuke Tsuchiya, Takashi Suda
Kanazawa University

WS18-10-O/P

Salmonella utilizes antibiotics and antibodies for immune evasion

○ Uki Kimura¹⁾, Karen Saiki¹⁾, Nobuhiro Matsuyama¹⁾, Akiko Takaya²⁾, Koji Tokoyoda¹⁾
¹⁾Division of Immunology, Graduate School of Medical Sciences, Tottori University, Tottori, Japan, ²⁾Department of Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan

WS18-11-P

Immunological analysis of cognitive dysfunction induced by periodontal disease

○ Sari Kishikawa^{1,2}, Jun-ichi Nagao^{1,2}, Kenji Toyonaga^{1,2}, Emi Kaji¹, Masahiro Nakagami¹, Aoba Iwanuma¹, Sonoko Tasaki¹, Kanae Negoro^{1,2}, Satoru Iwai¹, Yoshihiko Tanaka^{1,2}

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WS18-12-P

Evaluation of periodontitis in mouse model by periodontal pathogenic bacterial infection

○ Masanobu Nakagami^{1,2}, Jun-ichi Nagao^{1,3}, Sari Kishikawa^{1,3}, Kenji Toyonaga^{1,3}, Satoru Iwai¹, Keisaku Matsuzaki¹, Emi Kaji¹, Aoba Iwanuma¹, Yasunori Yoshinaga^{2,3}, Ryuji Sakagami², Yoshihiko Tanaka^{1,3}

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WS18-13-P

Investigation of immune regulation of Th17 cells in the development of periodontitis

○ Jun-ichi Nagao^{1,2}, Masanobu Nakagami¹, Sari Kishikawa^{1,2}, Kenji Toyonaga^{1,2}, Emi Kaji¹, Aoba Iwanuma¹, Kanae Negoro-Yasumatsu¹, Sonoko Tasaki¹, Satoru Iwai¹, Yoshihiko Tanaka^{1,2}

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WS18-14-O/P

Oligopeptide binding protein A provides novel preventive paradigms against *Salmonella* infections

○ Ken Yoshii¹, Koji Hosomi¹, Takahiro Nagatake^{1,2}, Jun Kunisawa^{1,3,4,5,6,7}

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WS18-15-P

Peyer's patches are required for antigen-specific systemic IgA induction against oral recombinant *Salmonella*

○ Tomomi Hashizume-Takizawa, Hidenobu Senpuku

Nihon University School of dentistry at Matsudo

WS18-16-O/P

Pilus-based vaccine development to prevent Group A Streptococcal infections

○ Jacelyn Mei San Loh^{1,2}, Adrina Khemlani¹, Catherine Tsai^{1,2}, Nikki Moreland^{1,2}, Thomas Proft^{1,2}

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WS18-17-O/P

Novel tuberculosis vaccine evaluation with simian immunodeficiency virus and mycobacterium tuberculosis co-infected monkey model

○ Natsuko Yamakawa, Yasuhiro Yasutomi

NIBIOHN Tsukuba Primate Research Center

WS18-18-P

Elucidating the Mechanistic Anti-Methicillin-resistant *Staphylococcus Aureus* (MRSA) Effects of Platelets Using iPS Cell-derived Platelets (iPSC-PLTs)

○ Qirui Lin¹, Kimiko Nonomura¹, Sou Nakamura¹, Satoshi Uchiyama², Victor Nizet², Koji Eto¹, Naoshi Sugimoto¹

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WS18-19-O/P

A phage cocktail predicting the evolution of phage resistance can effectively combat MDR *Acinetobacter baumannii* infection and delay phage resistance

○ Yong Shao^{1,4}, Ying Zhang^{2,3}, Jianqiong Zhang^{1,2,3,4}

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WS18-20-O/P

Association between LILRB3 and LILRA6 alleles and bacterial infection

○ Gen Hasegawa^{1,2}, Kouyuki Hirayasu^{1,3}, Yifan Li¹, Hisashi Arase^{4,5,6}, Masaya Yamaguchi^{6,7,8,9}, Shigetada Kawabata^{6,8}, Rikinari Hanayama^{1,10}

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WS18-21-P

CCR2 plays a critical role in the protection against abnormal pregnancies caused by *Toxoplasma gondii* infection

○ Naganori Kamiyama¹, Nozomi Sachi¹, Sotaro Ozaka¹, Yasuhiro Soga¹, Yomei Kagoshima¹, Supanuch Ekronarongchai¹, Masahiro Yamamoto^{3,4,5}, Takashi Kobayashi^{1,2}

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WS18-22-O/P

The cAMP Responsive Element Modulator (CREM) Transcription Factor Regulates Innate and Adaptive Immunity and Alters Susceptibility to Malnutrition

○ Audrey Brown¹, Md Jashim Uddin¹, Rebecca Munday⁴, Farha Naz¹, G Brett Moreau¹, Girija Ramakrishnan¹, Stephen Rich², Rashidul Haque³, Priya Duggal⁴, Chelsea Marie¹, William Petri Jr.¹

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December 4**WS19 Tolerance and immune suppression focusing on regulatory T cell biology**

WS19-01-O/P

Runx3/Cbfb is required for differentiation and function of Thetis APCs that drives Rorγt⁺ pTreg differentiation

○ Chihiro Ogawa, Ichiro Taniuchi

RIKEN Center for Integrative Medical Sciences, Laboratory for Transcriptional Regulation

WS19-02-O/P

Foxp3 corporates with NFκB to promote endogenous Foxp3 transcription *in vivo*

○ Yuxi Wei, Akira Nakajima, Shohei Hori

Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS19-03-O/P

Possible diversity of Treg cell development pathways branching from CD25^{neg}Foxp3^{neg} pre-precursor stage in the thymus

○ Ryoji Kawakami^{1,2}, Shimon Sakaguchi^{1,2}

¹Institute for Life and Medical Sciences (LiME), Kyoto University, ²Immunology Frontier Research Center (IFReC), Osaka University

WS19-04-O/P

Generation and activation of naturally arising memory-phenotype CD4⁺ T lymphocytes are homeostatically restricted by regulatory T cells dependently of TCR, CD28, and IL-2 signaling

○ Jing Li, Ziyang Yang, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Naoto Ishii, Takeshi Kawabe

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

WS19-05-O/P

Characterization of peripheral blood Treg cells

○ Takashi Sekiya

Department of Immune regulation, The Research Center for Hepatitis and Immunology, National Center for Global Health and Medicine

WS19-06-O/P

CD80/CD86-CD28 signal blockade during the mixed lymphocyte reaction augments the alloantigen-specific inhibitory function of natural regulatory T cells

○ Kyoko Yogo^{1,3)}, Kazuyoshi Takeda¹⁾, Ko Okumura¹⁾, Ryuichi Murakami²⁾, Shohei Hori²⁾, Koichiro Uchida¹⁾

¹⁾Center for Immunotherapy and Diagnosis, Juntendo University, ²⁾Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ³⁾JUNTEN BIO Co., Ltd.

WS19-07-O/P

Induction of antigen-specific Treg in vivo with mRNA

○ Shota Imai¹⁾, Tomoyoshi Yamano^{1,2)}, Rikinari Hanayama^{1,2)}

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WS19-08-P

Polyclonal iTreg mediate Target Specific Suppression

○ Yoshihiro Oya^{1,2)}, Takuya Nakazawa²⁾, Ryutaro Matsumura²⁾, Hiroshi Nakajima³⁾, Ethan M Shevach⁴⁾

¹⁾Laboratory of Autoimmune diseases, National Hospital Organization(NHO) Chibahigashi National Hospital, ²⁾Allergy & Clinical Immunology, National Hospital Organization Chibahigashi National Hospital, ³⁾Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, ⁴⁾Laboratory of Immune System Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health

WS19-09-P

An endogenous lipid in human plasma is a potential immunosuppressant

○ Shigenari Ishizuka^{1,2)}, Yasunobu Miyake²⁾, Hiroki Yoshida²⁾, Sho Yamasaki^{1,3,4)}

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WS19-10-P

Dimer formation and ligand recognition of secreted receptor LILRA3

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WS19-11-P

Functional defect in regulatory CD4⁺ T cells in a novel inflammatory bowel disease model

○ Hideki Ogura¹⁾, Soutaro Hanawa²⁾, Akie Teratani¹⁾, Ryo Unita³⁾, Satoshi Ishido¹⁾

¹⁾Department of Microbiology, Hyogo Medical University, ²⁾Department of Oral and Maxillofacial Surgery, Hyogo Medical University, ³⁾Department of Emergency and Critical Care Medicine, Hyogo Medical University

WS19-12-P

Differentiation of peripherally-derived Treg cells and restoration of oral tolerance by food intake and costimulatory blockade

○ Masaya Arai¹⁾, Ryoji Kawakami²⁾, Yamami Nakamura¹⁾, Yoko Naito³⁾, Daisuke Motooka³⁾, Norihisa Mikami¹⁾, Shimon Sakaguchi^{1,2)}

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WS19-13-P

ILDR2⁺CD206⁺ macrophages in the sublingual mucosa potentially induce regulatory T cells

○ Farzana Sultana, Miyuki Azuma, Shigenori Nagai

Molecular Immunology

WS19-14-P

Balancing Treg and exTreg dynamics via CTCF-mediated chromatin organization controls autoimmune diseases and immunotherapy outcomes

○ Ying ying Zhou¹⁾, Li Qiu²⁾, Yuan Hui^{2,3)}, Sheng bao Suo^{4,5)}, Guang shuai Jia³⁾, Qi bin Leng²⁾

¹⁾Guangzhou Medical University, ²⁾Guangzhou Institute of Cancer Research, State Key Laboratory of Respiratory Disease, Guangzhou Medical University, ³⁾State Key Laboratory of Respiratory Disease, GMU-GIBH Joint School of Life Sciences, Guangzhou Medical University, ⁴⁾Guangzhou Laboratory-Guangzhou Medical University, ⁵⁾The First Affiliated Hospital of Guangzhou Medical University, State Key Laboratory of Respiratory Disease

WS19-15-P

Non-specific Symmetric Control is Crucial for Autonomous Optimization of Immune Balance

○ Tomoyuki Yamaguchi

Basic Immunology, Research Institute, Nozaki Tokushukai Hospital

WS20 Organ-Specific Immune Diseases

WS20-01-O/P

Neutrophil-derived IL-23 p19 monomer suppresses type 17 immunity

○ Daiya Ohara, Yusuke Takeuchi, Yoonha Lee, Hiroki Mukoyama, Hitomi Watanabe, Gen Kondoh, Keiji Hirota
Institute for Life And Medical Sciences, Kyoto University

WS20-02-O/P

Th1-type Tregs induced by interferon- γ limit EAE exacerbation

○ Masaaki Okamoto¹⁾, Naganori Kamiyama⁴⁾, Takashi Kobayashi^{4,5)}, Masahiro Yamamoto^{1,2,3)}

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WS20-03-O/P

Stage-dependent dynamics of resident memory T cells in lesion sites of multiple sclerosis and neuromyelitis optica spectrum disorders

○ Fumihiro Yanagimura^{1,5)}, Akihiro Nakajima¹⁾, Etsuji Saji¹⁾, Takashi Nakajima⁵⁾, Hiroshi Shimizu²⁾, Yasuko Toyoshima^{2,7)}, Hitoshi Takahashi^{6,8)}, Akiyoshi Kakita²⁾, Masatoyo Nishizawa^{4,8)}, Osamu Onodera¹⁾, Izumi Kawachi^{1,3)}

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WS20-04-O/P

Ketogenic diet regulates autoimmune neuroinflammation via changes in small intestinal gut microbiome

○ Katsuki Yaguchi^{1,2)}, Tadashi Takeuchi^{1,3)}, Eiji Miyauchi^{1,4)}, Masami Kawasumi¹⁾, Yumiko Nakanishi¹⁾, Tamotsu Kato¹⁾, Jigen Sekine¹⁾, Shin Maeda²⁾, Hiroshi Ohno^{1,5)}

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WS20-05-O/P

Akkermansia muciniphila endorses T cell pathogenicity and invasion to CNS in experimental autoimmune encephalomyelitis

○ Manu Mallahalli Shanthappa¹⁾, Hirohiko Hohjoh²⁾, Daiki Takewaki¹⁾, Shinji Oki¹⁾, Wakiro Sato¹⁾, Takashi Yamamura¹⁾

¹⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Ogawahigashicho, Kodaira, Tokyo., ²⁾Department of Molecular Pharmacology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Ogawahigashicho, Kodaira, Tokyo

WS20-06-P

An Engineered Probiotic Produces a Type III Interferon IFNL1 and Reduces Inflammations in *in vitro* Inflammatory Bowel Disease Models

○ Koon Jiew Eri Chua^{1,2,3,4)}, Hua Ling^{1,2,3,4)}, In Young Hwang^{1,2,3,4)}, Hui Ling Lee^{1,2,3,4)}, John C March⁵⁾, Yung Seng Lee^{1,2,6)}, Matthew Wook Chang^{1,2,3,4)}

¹⁾National University of Singapore, NUS Synthetic Biology for Clinical and Technological Innovation (SynCTI), Singapore, Singapore, ²⁾National University of Singapore, Synthetic Biology Translational Research Programme, Singapore, Singapore, ³⁾National University of Singapore, Department of Biochemistry, Singapore, Singapore, ⁴⁾National University of Singapore, Wilmar-NUS Corporate Laboratory, Singapore, Singapore, ⁵⁾Cornell University, Department of Biological and Environmental Engineering, Ithaca, NY, ⁶⁾National University of Singapore, Department of Paediatrics, Singapore, Singapore

WS20-07-P

Treatment of multiple sclerosis by immunomodulatory glycolipid OCH in Phase II Clinical Trial and in an animal model

○ Atsuko Kimura¹⁾, Ben JE Raveney¹⁾, Tomoko Okamoto²⁾, Wakiro Sato¹⁾, Shinji Oki¹⁾, Youwei Lin²⁾, Sachiko Miyake³⁾, Yuji Takahashi²⁾, Takashi Yamamura¹⁾

¹⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry (NCNP), ²⁾Department of Neurology, National Center Hospital, NCNP, ³⁾Department of Immunology, Juntendo University Graduate School of Medicine

WS20-08-P

Investigation of anti-inflammatory effects of nicotine in ulcerative colitis (UC) using a PET imaging agent, [¹⁸F]ASEM

○ Kohei Nakajima, Genki Yoshino, Mikako Ogawa
Graduate School of Pharmaceutical Sciences, Hokkaido Univ.

WS20-09-P

Phenotypic Validation of Humanized IgA1 and CD89 Transgenic Mice as a Model for IgA Nephropathy-Like Autoimmune Disease

○ Kaiyuan Zi, Juan Liang
GemPharmatech Co., Ltd.

WS20-10-O/P

CXCL13 producing peripheral helper T cell (Tph) is a crucial pathogenesis in Castleman disease (iMCD)

○ Kazuyuki Yoshizaki¹⁾, Yoshikane Kikushige²⁾, Takuya Harada²⁾, Hiroaki Niino²⁾, Kazuko Uno³⁾, Atsushi Kawakami⁴⁾, Tomohiro Koga⁴⁾
¹⁾Osaka Univ., ²⁾Kyushu Univ., ³⁾Louis Pasteur Center for Medical Research, ⁴⁾Nagasaki -Univ.

WS20-11-P

Gut Dysbiosis with AHR Activation Exacerbates the Pathogenesis of Pulmonary Arterial Hypertension

○ Ryotaro Asano, Makoto Okazawa, Tadakatsu Inagaki, Yui Kotani, Xin Ding, Tomohiko Ishibashi, Takeshi Ogo, Yoshikazu Nakaoka
National Cerebral and Cardiovascular Center

WS20-12-O/P

Identification of *PTPN2* as a population-specific susceptibility locus for primary biliary cholangitis through genome-wide association study

○ Yuki Hitomi¹⁾, Yoshihiro Aiba²⁾, Kazuyoshi Ishigaki³⁾, Minoru Nakamura^{2,4,5)}
¹⁾Department of Human Genetics, Research Institute, National Center for Global Health and Medicine, ²⁾Clinical Research Center, NHO Nagasaki Medical Center, ³⁾Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, ⁴⁾Division of Biomedical Information Analysis, Medical Institute of Bioregulation, Kyushu University, ⁵⁾Department of Hepatology, Nagasaki University Graduate School of Biomedical Sciences

WS20-13-P

Hepatic stellate cells in primary biliary cholangitis display an increase of molecules associated with antigen-presentation capacities

○ Toshiaki Bando¹⁾, Hajime Morita¹⁾, Lynn Zreka¹⁾, Shuhe Ma^{1,3)}, Mouna Khan¹⁾, Daichi Akuzawa¹⁾, Yuki Masuo¹⁾, Shunsuke Uno¹⁾, Hirotaka Sato¹⁾, Takashi Ito²⁾, Hideki Ueno^{1,3,4)}
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WS20-14-P

AI-Driven Epigenetic Analysis Reveals Novel Therapeutic Targets in Primary Sclerosing Cholangitis

○ Elfiany Syafruddin¹⁾, Prihantini Prihantini²⁾, Andi Nursanti Andi Ureng³⁾, Rifaldy Fajar⁴⁾, Sahnaz Vivinda Putri⁵⁾, Roland Helmizar⁶⁾
¹⁾Computational Research Team, Bulukumba Muhammadiyah University, Indonesia, ²⁾Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Indonesia, ³⁾Department of Pharmacy, Andini Persada College of Health Sciences, Indonesia, ⁴⁾Computational Biology and Medicine Laboratory, Yogyakarta State University, Indonesia, ⁵⁾Health Management Laboratory, International University Semen Indonesia, Indonesia, ⁶⁾Department of Internal Medicine, Baiturrahmah University, Indonesia

WS20-15-O/P

Development of novel therapy targeting gut microbiota for primary sclerosing cholangitis

○ Haruka Okada¹⁾, Masataka Ichikawa²⁾, Nobuhiro Nakamoto¹⁾, Takanori Kanai¹⁾
¹⁾Division of Gastroenterology & Hepatology, Department of Internal Medicine, Keio University School of Medicine, ²⁾Division of Gastroenterology, Tokyo Dental College Ichikawa General Hospital

WS20-16-P

Butyrate-regulated Histone Modifications in Orbital Fibroblast from Graves' Ophthalmopathy

○ Sukonlaphat Pitikeattikul¹⁾, Preamjit Saonanon²⁾, Vannakorn Pruksakorn²⁾, Tanapat Palaga³⁾, Sita Virakul³⁾
¹⁾Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand, ²⁾Department of Ophthalmopathy, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ³⁾Department of Microbiology, Faculty of Science, Chulalongkorn University, Bangkok, Thailand

WS20-17-P

IgM-type anti-TSH receptor antibody produced through gene transfection

○ Keiko Nagata¹⁾, Shusei Hamamichi²⁾, Yoshinori Ichihara¹⁾, Tatsuya Sawano¹⁾, Kanako Kazuki²⁾, Takashi Moriwaki²⁾, Junichiro Miake¹⁾, Kazuhiko Matsuzawa¹⁾, Yasuhiro Kazuki²⁾, Takeshi Imamura¹⁾
¹⁾Division of Pharmacology, Faculty of Medicine, Tottori University, ²⁾Chromosome Engineering Research Center, Tottori University

WS20-18-P

Vimentin knockdown attenuates PDGF-BB-induced orbital fibroblast functions in Graves' ophthalmopathy

○ Rajit Chompoowong¹⁾, Jutamas Wongphoom²⁾, Nakarin Kitkumthorn³⁾, Preamjit Saonanon⁴⁾, Vannakorn Pruksakorn⁴⁾, Tanapat Palaga⁵⁾, Nattiya Hirankarn⁶⁾, Martin van Hagen^{6,7,8)}, Willem A Dik⁷⁾, Sita Virakul⁵⁾

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WS20-19-P

Gamma-glutamyltransferase 1 is an eQTL in nonimmune cells and is associated with the development of Post-ERCP pancreatitis via NF-κB activation

○ Rie Hasebe¹⁾, Jing Jing Jiang^{2,3)}, Yuki Tanaka⁴⁾, Kaoru Murakami²⁾, Kumiko Tanaka²⁾, Takeshi Yamasaki¹⁾, Yuta Shinohara²⁾, Shintaro Hojyo²⁾, Shimpei Kubota²⁾, Shigeru Hashimoto²⁾, Masaaki Murakami^{1,2,4)}

¹⁾Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institutes of Natural Sciences, ²⁾Division of Molecular Psychoneuroimmunology, Institute for Genetic Medicine and Graduate School of Medicine, Hokkaido University, ³⁾Institute of Preventive Genomic Medicine, School of Life Sciences, Northwest University, China, ⁴⁾Quantum Immunology Team, Institute for Quantum Life Science, National Institutes for Quantum Science and Technology

WS20-20-P

Pathophysiological Mechanisms of the Onset, Development, and Disappearance Phases Based on the Spatiotemporal Dynamics of Skin Eruptions in Chronic Spontaneous Urticaria

○ Sungrim Seirin-Lee¹⁾, Shunsuke Takahagi²⁾, Michihiro Hide³⁾

¹⁾Kyoto University, ²⁾JA Hiroshima General Hospital, ³⁾Hiroshima City Hiroshima Citizens Hospital

WS20-21-P

A novel immunomodulatory compound identified through a screening targeting dendritic cell ameliorates colitis and contact hypersensitivity in mice

○ Kazuki Nagata¹⁾, Fumiya Sakata¹⁾, Ayaka Sugihara¹⁾, Miki Takahashi¹⁾, Hiroyuki Hirano²⁾, Hiroyuki Osada^{2,3)}, Chiharu Nishiyama¹⁾

¹⁾Department of Biological Science and Technology, Tokyo University of Science, ²⁾RIKEN Center for Sustainable Resource Science, ³⁾Institute of Microbial Chemistry (BIKAKEN)

WS20-22-P

Pathophysiological analysis of vitiligo symptoms in autoimmune prone mice

○ Yuriko Tanaka¹⁾, Marii Ise¹⁾, Taku Naito¹⁾, Taku kuwabara¹⁾, Shuhei Mashimo^{1,2)}, Akiko Inoue^{1,3)}, Motonari Kondo¹⁾

¹⁾Department of Molecular Immunology Toho University School of Medicine, ²⁾Department of Dermatology Toho University School of Medicine, ³⁾Department of Otolaryngology Toho University School of Medicine

WS20-23-P

Moesin regulates homeostasis of alveolar epithelial cells and macrophages

○ Hiroki Satooka, Takako Hirata

Shiga University of Medical Science

WS20-24-P

Up-regulation of transcription factor *ELF3* is a hallmark of human thymomas and causes a reduction of thymic regulatory T cells in mice

○ Wataru Muramatsu^{1,2)}, Taishin Akiyama^{1,2)}

¹⁾RIKEN Center for Integrative Medical Science laboratory for immune homeostasis, ²⁾Yokohama City Univ. Graduate School of Medical Life Science

WS20-25-P

Decoding Immunogenic Peptide Expression in Alzheimer's Disease via Quantum-Inspired Deep Learning on Human Leukocyte Antigen Peptidomics Data

○ Sahnaz Vivinda Putri¹⁾, Prihantini²⁾, Andi Nursanti Andi Ureng³⁾, Rifaldy Fajar⁴⁾, Elfiany Syafruddin⁵⁾

¹⁾Health Management Laboratory, International University Semen Indonesia, Indonesia, ²⁾Machine Learning for BioMedicine Laboratory, Bandung Institute of Technology, Indonesia, ³⁾Department of Pharmacy, Andini Persada College of Health Sciences, Indonesia, ⁴⁾Computational Biology and Medicine Laboratory, Yogyakarta State University, Indonesia, ⁵⁾Computational Sciences Research Team, Bulukumba Muhammadiyah University, Indonesia

WS21 Granulocytes and Mast cells in homeostasis and diseases

WS21-01-O/P

IL-27 signaling promotes peanut-specific IgE production

○ Jun Kasamatsu¹⁾, Hiroki Yoshida²⁾, Hiromitsu Hara¹⁾

¹⁾Kagoshima University, ²⁾Saga University

WS21-02-P

The investigation of eosinophil subsets in asthma pathogenesis

○ Ayaka Hashimoto¹⁾, Takuya Yashiro¹⁾, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, iReC, Osaka University

WS21-03-O/P

RNA-binding protein tristetraprolin negatively regulates pro-inflammatory mediator production in basophils via mRNA degradation

○ Junya Ito^{1,2)}, Kensuke Miyake¹⁾, Tomoki Chiba²⁾, Hajime Karasuyama¹⁾, Hiroshi Asahara²⁾

¹⁾Institute of Research, Tokyo Medical and Dental University (TMDU), ²⁾Department of Systems BioMedicine, Tokyo Medical and Dental University (TMDU)

WS21-04-O/P

Basophils are crucial for the resolution of lung inflammation in acute respiratory distress syndrome

○ Kensuke Miyake¹⁾, Seiko Takasawa^{1,2)}, Tomoya Tateishi²⁾, Jun Sugihara²⁾, Junya Ito¹⁾, Hajime Karasuyama¹⁾, Yasunari Miyazaki²⁾

¹⁾Institute of Research, Tokyo Medical and Dental University (TMDU), ²⁾Department of Respiratory Medicine, Tokyo Medical and Dental University (TMDU)

WS21-05-O/P

Neutrophils are composed on heterogeneous subsets in Human Liver

○ Lynn Zreka¹⁾, Hajime Morita¹⁾, Toshiaki Bando¹⁾, Shuhe Ma^{1,2)}, Mouna Khan¹⁾, Daichi Akuzawa¹⁾, Yuki Masuo¹⁾, Shunsuke Uno¹⁾, Hirotaka Sato¹⁾, Hideki Ueno^{1,2)}

¹⁾Dept. of Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, ²⁾Immunology Group, Institute for the Advanced Study of Human Biology (ASHBi), KUIAS Kyoto University, Kyoto, Japan

WS21-06-O/P

Interferon-γ recruits immature neutrophils to suppress acute inflammation during polymicrobial sepsis in mice

○ Kenshiro Matsuda, Akira Shibuya

University of Tsukuba

WS21-07-O/P

Deficiency of the antioxidant stress response master transcription factor Nrf2 ameliorates IgE-induced anaphylaxis in mice by suppressing IgE-dependent activation of mast cells

○ Sakura Noguchi, Kazuki Nagata, Tsubasa Ashikari, Chiharu Nishiyama

Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science.

WS21-08-O/P

Neuronal substance P-driven MRGPRX2-dependent mast cell degranulation products histamine and chymase differentially promote vascular permeability

○ Ayako Kaitani¹⁾, Masakazu Nagamine¹⁾, Kumi Izawa¹⁾, Tomoaki Ando¹⁾, Akihisa Yoshikawa^{1,2)}, Akie Maehara¹⁾, Naoko Negishi¹⁾, 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

WS21-09-P

Roles of transcription factor PU.1 and TGF-β-Signaling in the Regulation of CD103 Expression in Mast Cells and Dendritic Cells

○ Kenta Ishii, Kazuki Nagata, Chiharu Nishiyama

Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science

WS22 New molecular and cellular mechanisms in cancer immunology

WS22-01-O/P

Satb1 maintains the functionality of regulatory and cytotoxic T cells during tumor responses

○ Wooseok Seo^{1,2)}, Chengcheng Zou²⁾, Kanako Shimizu²⁾, Ruka Setoguchi³⁾, Kiyokazu Kakugawa²⁾, Krutula Nair²⁾, Haruhiko Koseki²⁾, Terumi Kohwi-Shigematsu⁴⁾, Shohei Hori³⁾, Shin-ichiro Fujii²⁾, Hiroyoshi Nishikawa¹⁾, Ichiro Taniuchi²⁾
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WS22-02-P

Naturally arising memory-phenotype CD4⁺ T lymphocytes differentiate into Th1, Th17, and Treg cells to contribute to tumor immunity while inhibiting graft-versus-host disease

○ Feng Gao, Ziyang Yang, Jing Li, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Naoto Ishii, Takeshi Kawabe
 Department of Microbiology and Immunology, Tohoku University, Graduate School of Medicine

WS22-03-P

Type-I IFN signaling in the gut lymphoid tissue regulates the polyamine homeostasis in the peripheral CD8⁺ T cells

○ Kana Yamasaki¹⁾, Sara Delghandi¹⁾, Kazuhiro Sonomura³⁾, Tomonori Yaguchi^{1,2)}, Tasuku Honjo¹⁾, Kenji Chamoto^{1,2)}
¹⁾Division of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, Kyoto, Kyoto 606-8501, Japan, ²⁾Department of Immuno-Oncology PDT, Graduate School of Medicine, Kyoto University, Kyoto, Kyoto 606-8501, Japan, ³⁾Life Science Research Center, Technology Research Laboratory, Shimadzu Corporation, Kyoto, Japan

WS22-04-P

IFN-γ Modulation of Type 2 Immune Response enhances T cell Anti-tumor Immunity

○ Tzu-Hsuan Chang^{1,2)}, Francesca Alfei³⁾, Stefania Vilbois^{1,2)}, Yingxi Xu^{1,2,4,5)}, Ping-Chih Ho^{1,2)}
¹⁾Department of Fundamental Oncology, University of Lausanne, Lausanne, Switzerland., ²⁾Ludwig Institute for Cancer Research, University of Lausanne, Epalinges, Lausanne, Switzerland, ³⁾Amal Therapeutics, Av. de la Roseaie 64, Genève, Switzerland, ⁴⁾National Clinical Research Center for Blood Diseases, Institute of Hematology and Blood Diseases Hospital, Chinese Academy of Medical Sciences and Peking Union Medical College, Tianjin, China, ⁵⁾Tianjin Institutes of Health Science, Tianjin, China

WS22-05-P

PIGR mediates susceptibility of tumor cells to cytotoxicity of CD8⁺ T cells

○ Chenxu Jiang¹⁾, Kiyoshi Yasui¹⁾, Situo Deng¹⁾, Mitsuhiro Yoneda¹⁾, Yasuhiro Nagata²⁾, Hiroaki Ikeda¹⁾
¹⁾Department of Oncology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan, ²⁾Leading Medical Research Core Unit, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

WS22-06-P

Depletion of CD4⁺ T cells suppressed tumor growth in a murine model of lung cancer with pulmonary fibrosis through enhancing anti-tumor effects of CD8⁺ T cells

○ Takehiro Sakabe, Masahiro Kitabatake, Noriko Ouji-Sageshima, Ryutaro Furukawa, Tatsuki Nishioka, Toshihiro Ito
 Department of Immunology, Nara Medical University

WS22-07-P

The role of histone demethylase Phf2 in T cell immune responses and effect of Phf2 deficiency on antitumor activity

○ Yuzuki Tano¹⁾, Yuya Arakawa²⁾, Yuri Tsuchiya³⁾, Rina Matsuda¹⁾, Honoka Myahara¹⁾, Ayumi Sumizaki¹⁾, Masaki Yasukawa^{1,3)}, Takeshi Yamada^{1,3)}
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WS22-08-O/P

T cell exhaustion steps according to mitochondrial status and the analysis of their glycolytic function

○ Koji Kitaoka¹⁾, Yasuharu Haku¹⁾, Tomonori Yaguchi^{1,2)}, Tasuku Honjo¹⁾, Kenji Chamoto^{1,2)}
¹⁾Center for Cancer Immunotherapy and Immunobiology Graduate School of Medicine Kyoto University, ²⁾Department of Immuno-Oncology PDT, Graduate School of Medicine Kyoto University

WS22-09-P

Possible involvement of miR-31 in T cell exhaustion mediated by a T-box transcription factor, Eomesodermin

○ Ritsuki Tanabe, Ryuichi Nagashima, Hiroaki Takimoto, Koji Eshima
 Division of Immunology, Kitasato University Graduate School of Science

WS22-10-O/P

A novel pro-tumourigenic mechanism of Ex-Regs in cancer

○ Qiao Gou¹⁾, Hiroyuki Takaba¹⁾, Daizo Koinuma²⁾, Kohei Miyazono^{2,3)}, Hiroshi Takayanagi¹⁾

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WS22-11-P

Prostaglandin E₂ – EP2/EP4 signaling induces an active phenotype of regulatory T cells characteristic in tumor microenvironment

○ Ryuma Matsuura, Shuh Narumiya

Department of Drug Discovery Medicine, Kyoto University Graduate School of Medicine

WS22-12-P

A subset of tumor associated macrophages secrete TiHF1 and promote tumor growth through Th1-Treg polarization

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

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WS22-13-O/P

Establishment of monoclonal antibodies derived from tumor-infiltrating B cells for cancer therapeutic application

○ Tsubasa Kobayashi¹⁾, Toshihiro Suzuki²⁾, Tetsuya Nakatsura²⁾, Daisuke Kitamura¹⁾

¹⁾Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Division of Cancer Immunotherapy, EPOC, National Cancer Center

WS22-14-P

CD20 promotes anti-IgM-dependent proliferation of the human Diffuse Large B Cell Lymphoma line

○ Yohei Kobayashi, Yuri Shimizu, Ryota Sato, Ryutaro Fukui, Takuma Shibata, Kensuke Miyake

Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo

WS22-15-O/P

Impacts of tumor-derived DCs on the thymus function

○ Yangsong Wang, Ichita Hasegawa, Yukihiro Endo, Ryo Nasu, Motoko Kimura

Chiba University

WS22-16-P

Clec4A4/CLEC4A acts as a negative immune checkpoint regulator to suppress anti-tumor immunity

○ Tomofumi Uto, Tomohiro Fukaya, Shuya Mitoma, Moe Tominaga, Katsuaki Sato

Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki

WS22-17-P

Glioblastoma stem-like cells evade immune response via CD47 and PD-L1 expression

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WS22-18-P

Extracellular acidity in tumor tissue upregulates PD-L1 expression on tumor cells via proton-sensing G protein-coupled receptors

○ Daichi Mori^{1,2,3)}, Takahiro Tsujikawa¹⁾, Gaku Omura¹⁾, Osam Mazda²⁾, Shigeru Hirano¹⁾, Tsunao Kishida²⁾

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WS22-19-P

Histone Deacetylation in the Regulation of MHC Class I Gene Expression

○ Alaa Ahmad¹⁾, An Ning¹⁾, Yusuke Kasuga¹⁾, Ryota Ouda¹⁾, Xin Sun¹⁾, Tsutomu Tanaka^{1,3)}, Koichi S Kobayashi^{1,2,3)}

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WS22-20-P

Epithelial cells induce cell death in precancerous cells via the MHC-I interaction

○ Shiyu Ayukawa, Nagisa Kamoshita, Takeshi Maruyama

Tokyo University of Pharmacy and Life Sciences

WS22-21-P

Binding affinity and specificity analysis of anti-HLA-G antibodies for anti-tumor immune activation

○ Yuhi Kuriki¹⁾, Yoji Mori¹⁾, Sakie Shimokakimoto¹⁾, Kazuma Hikichi¹⁾, Naruki Akaiwa¹⁾, Hisashi Arase²⁾, Atsushi Furukawa^{1,3)}, Naoyoshi Maeda^{1,4)}, Kimiko Kuroki¹⁾, Katsumi Maenaka^{1,5,6,7)}

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WS22-22-P

Analysis of candidate antibodies inhibiting immune checkpoint receptor function for antitumor immune activation

○ Tomokatsu Nishiuchi¹⁾, Ryota Koseki¹⁾, Naruki Akaiwa¹⁾, Hiroshi Ito²⁾, Koji Nakamura²⁾, Kimiko Kuroki¹⁾, Katsumi Maenaka^{1,3,4,5,6)}

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WS22-23-P

The Analysis of cell surface expression of novel immune checkpoint molecule HLA-F on colorectal cancer cells

○ Noriko Oujii-Sageshima, Shinomiya Reina, Masahiro Kitabatake, Ryutaro Furukawa, Atsushi Hara, Ito Tishihito
Department of Immunology, Nara Medical University

WS22-24-O/P

Deletion of the endoribonuclease Regnase-1 unleashes NK cell anti-tumor activity via OCT2-dependent transcription of *Ifng*

○ Yasuharu Nagahama^{1,2)}, Shizuo Akira^{1,3,4)}

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WS22-25-P

Deficiency of nuclear receptor Nr4a3 alleviates colitis-associated cancer in mice

○ Niya Yamashita¹⁾, Natsuki Minamikawa¹⁾, Naoto Ito¹⁾, Mayuka Katagiri¹⁾, Kazuki Nagata¹⁾, Akihiko Yoshimura²⁾, Chiharu Nishiyama¹⁾

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WS22-26-P

Effect of myeloid-specific *Ezh2* deficiency in tumor formation in hepatocellular carcinoma mouse model

○ Benjawan Saechue¹⁾, Kittin Weerasopon^{2,3)}, Atsadam Boonmee⁴⁾, Haruhiko Koseki⁵⁾, Tanapat Palaga^{3,6)}

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WS22-27-O/P

Fibroblastic reticular cell-derived CXCL12 controls immunosuppression in tumor-draining lymph nodes

○ Yasuhiro Kanda¹⁾, Madoka Ozawa¹⁾, Takashi Nagasawa²⁾, Tomoya Katakai¹⁾

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WS22-28-O/P

LPS promotes mast cells induced fibrosis in cancer tissue by increasing CXCL8 and CCL19 expression

○ Xiangmei Zhang¹⁾, Jidong Zhao²⁾, Baoen Shan¹⁾

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December 5

WS23 T cell regulation in host defense and disease

WS23-01-O/P

CD7 Deficiency Impairs T Cell Activation, Differentiation, and Survival

○ Tristan Yoder, Wan-Lin Lo
University of Utah

WS23-02-O/P

Role of TFH and IL-4 signal in Boost-vaccination with SARS-CoV-2 spike protein

○ Jumana Khalil^{1,2)}, Yuichiro Yamamoto³⁾, Kohji Noguchi³⁾, Rina Hashimoto⁴⁾, Kazuo Takayama⁴⁾, Masato Kubo^{2,5)}

¹⁾Kyoto University, Graduate School of Medicine, Department of Immunology, ²⁾Tokyo University of Science, Division of Molecular Pathology, Research Institute for Biomedical Science, ³⁾Tokyo University of Science, Department of Pharmaceutical Sciences, Faculty of Pharmaceutical Sciences, ⁴⁾Kyoto University, Center for iPS Cell Research and Application, ⁵⁾RIKEN, Laboratory for Cytokine Regulation, Center for Integrative Medical Sciences

WS23-03-O/P

MyD88 and IL-2 control memory T helper cell formation

○ Kokoro Ohki¹⁾, Shintaro Hojyo²⁾, Mei Sakagami¹⁾, Koji Tokoyoda¹⁾

¹⁾Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, ²⁾Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

WS23-04-O/P

Induction of cytotoxic CNS-associated Eomes-expressing Th cells via upregulation of type I interferon

○ Tzuwen Yeh¹⁾, Fumio Takahashi¹⁾, Marco Prinz²⁾, Takashi Yamamura¹⁾, Shinji Oki¹⁾

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WS23-05-O/P

Co-expression of CD276 and Lag3 are cell surface markers for functional cytotoxic CD4 T cells in humans

○ Yumi Tamura, Shun Ohki, Yohei Kawano, Rin Yoshizato, Haruna Nagai, Shizuki Nishi, Yuqi Jin, Yasuo Kitajima, Yun Guo, Tomoharu Yasuda

Department of Immunology, Graduate School of Biomedical & Health Sciences, Hiroshima University

WS23-06-O/P

Macaque IL-10-producing CD4 CD8 double positive T cells in the peripheral blood exhibit memory phenotype and increase with age

○ Ryota Takahashi, Hirohito Ishigaki, Yasushi Itoh

Shiga Univ. of Med. Sci., Dept. of Pathology, Dev. of Pathogenesis and disease regulation

WS23-07-O/P

Age-related changes of naïve T cell function in a non-human primate model

○ Yoshinori Okina¹⁾, Shokichi Takahama¹⁾, Takuto Nogimori¹⁾, Yasuhiro Yasutomi²⁾, Takuya Yamamoto^{1,3,4)}

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WS23-08-P

RORα regulates memory T cell sensitivity to inflammation for bystander activation

○ Kensuke Takada¹⁾, Zimeng Cai²⁾, Mina Kozai¹⁾, Hironobu Mita²⁾, Mutsumi Inaba²⁾, Kazuhiro Matsuo¹⁾

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WS23-09-P

Dysfunction of proteasomes in T cells causes immunodeficiency

○ Erkhembayar Shinebaatar, Junko Morimoto, Rinna Koga, Koji Yasutomo

Tokushima University

WS23-10-P

Withdrawn

WS23-11-P

Lipid Mediator Palmitoylethanolamide (PEA) inhibits pathogenic T cell differentiation

○ Yasuhiro Soga¹⁾, Naganori Kamiyama¹⁾, Nozomi Sachi¹⁾, Sotaro Ozaka¹⁾, Yomei Kagoshima¹⁾, Spanuch Ekronarongchai¹⁾, Masahiro Yamamoto^{3,4,5)}, Takashi Kobayashi^{1,2)}

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WS23-12-P

T-Be-Developed: Diverse Signals, Diverse Fates

○ Wan-Lin Lo

University of Utah School of Medicine

WS23-13-P

OX40 ligand fusion proteins and their *in vivo* agonistic activities against T-lymphocytes

○ Ayaka Sato¹⁾, Hodaka Nagai¹⁾, Ayano Suzuki¹⁾, Aya Ito¹⁾, Shimpei Matsuyama¹⁾, Mitsuki Azuma¹⁾, Masashi Morita¹⁾, Mari Hikosaka-Kuniishi¹⁾, Naoto Ishii²⁾, Takanori So¹⁾

¹⁾University of Toyama, ²⁾Tohoku University

WS23-14-P

Loss of peptidylarginine deiminase 4 in T follicular helper cells dysregulates specific humoral responses○ Taiki Sugaya^{1,2}, Ippei Ikegami¹, Kenichi Takano², Shingo Ichimiya¹¹Department of Human Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine, ²Department of Otolaryngology, Head and Neck Surgery, Sapporo Medical University School of Medicine

WS23-15-P

Analysis of glycan expression in senescent T cells

○ Hiroko Nakatsukasa, Kenichiro Goda, Hiroto Kawashima

Laboratory of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University

WS23-16-P

IgG Fc-fusion single-chain OX40L, 4-1BBL, CD70 and GITRL promote the expansion of antigen-specific effector T cells○ Shimpei Matsuyama¹, Hodaka Nagai¹, Ayaka Sato¹, Ayano Suzuki¹, Aya Ito¹, Mitsuki Azuma¹, Masashi Morita¹, Mari Hikosaka-Kuniishi¹, Naoto Ishii², Takanori So¹¹Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan,²Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan

WS23-17-P

Interleukin 9 Mediates T Follicular Helper Cell Activation for Promoting Antibody Responses

○ Ippei Ikegami, Taiki Sato, Taiki Sugaya, Shingo Ichimiya

Department of Human Immunology, Research Institute for Immunology, Sapporo Medical University School of Medicine

WS23-18-P

Small-GTPase Rap1 and downstream integrin activators talin1 and kindlin-3 are required for efficient proliferation of T cells independently of LFA1

○ Yoshihiro Ueda, Naoyuki Kondo, Yuji Kamioka, Tatsuo Kinashi

The Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University

WS23-19-P

Elucidating the ligand specificity of VISTA, an immuno-inhibitory co-receptor

○ Ryuki Abiru, Takumi Maruhashi, Il-mi Okazaki, Kenji Shimizu, Daisuke Sugiura, Taku Okazaki

Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo

December 5

WS24 Dendritic cells: Molecular basis for regulation of their differentiation, activation, and function

WS24-01-P

Roles of transcription factors PU.1 and SpiB, and epigenetic regulation in commitment between conventional dendritic cells and plasmacytoid dendritic cells○ Naoto Ito¹, Mayumi Hirakawa², Weiting Zhao¹, Natsuki Minamikawa¹, Mayuka Katagiri¹, Ryusei Tokita¹, Ryosuke Miura¹, Kazuki Nagata¹, Tomokatsu Ikawa², Chiharu Nishiyama¹¹Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²Research Institute for Biomedical Sciences, Tokyo University of Science

WS24-02-O/P

The role of splenic CD8 α ⁺CD103⁺ cDC1 in the maintenance of immune homeostasis○ Junko Morimoto¹, Hiroyuki Kondo¹, Rinka OKahisa¹, Li Hui¹, Daisuke Kurotaki², Koji Yasutomo¹¹Department of Immunology and Parasitology, Graduate School of Medicine, Tokushima University, ²Laboratory of Chromatin Organization in Immune Cell Development, International Research Center for Medical Sciences, Kumamoto University

WS24-03-P

The transcription factor BATF is involved in nucleic acid-induced maturation of dendritic cells

○ Tomoko Asatsuma-Okumura, Ryuji Owada, Shoko Kuroda, Masaaki Hashiguchi, Yoshiko Iwai

Nippon Medical School

WS24-04-O/P

SIRP α promotes the survival of cDC2s by preventing their activation and induction of an nuclear receptor family protein○ Satomi Komori^{1,2}, Takenori Kotani², Yoji Murata², Takashi Matozaki^{1,2}, Yasuyuki Saito²¹Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ²Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine

WS24-05-P

Butyric acid suppresses migration of monocyte derived Dendritic Cell by inhibiting Actin polymerization via mDia1 inhibition

○ Takumi Nagamoto^{1,2)}, Keisuke Nishimura^{1,2)}, Hiroyuki Murabe²⁾, Jun Saegusa^{1,2)}

¹⁾Kobe University Graduate School of Medicine Department of Immunology, ²⁾Kurashiki Central Hospital Department of Endocrinology and Rheumatology

WS24-06-P

Regulatory Mechanisms of Gene Expression and Development of Conventional Dendritic Cell and Plasmacytoid Dendritic Cell by Short-Chain Fatty Acids

○ Weiting Zhao¹⁾, Kazuki Nagata¹⁾, Naoto Ito¹⁾, Ryusei Tokita¹⁾, Yuta Yahagi¹⁾, Hotaka Okamura¹⁾, Osamu Kaminuma²⁾, Chiharu Nishiyama¹⁾

¹⁾Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²⁾Department of Disease Model, Research Institute for Radiation Biology and Medicine, Hiroshima University

WS24-07-P

Immunosuppressive effect of perilla leaf aroma components

○ Ryusei Tokita, Naoto Ito, Hikaru Okada, Sakaura Noguchi, Ayaka Sugihara, Kazuki Nagata, Chiharu Nishiyama
Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science

WS24-08-O/P

Morphological abnormalities of induced pluripotent stem cell-derived dendritic cells (iPSC-derived DCs) in MIRAGE syndrome with *SAMD9* mutation

○ Hidetoshi Hagiwara¹⁾, Masataka Ito²⁾, Kanako Mitsui-Sekinaka¹⁾, Kunihiro Moriya¹⁾, Yujin Sekinaka¹⁾, Yuri Kawasaki³⁾, Yohko Kitagawa³⁾, Kanako Tanase-Nakao⁴⁾, Satoshi Narumi⁵⁾, Megumu K. Saito³⁾, Shigeaki Nonoyama¹⁾, Kohsuke Imai¹⁾

¹⁾Department of Pediatrics, National Defense Medical College, ²⁾Department of Developmental Anatomy and Regenerative Biology, National Defense Medical College, ³⁾Department of Clinical Application, Center for iPS Cell Research and Application, Kyoto University, ⁴⁾Department of Molecular Endocrinology, National Center for Child Health and Development, ⁵⁾Department of Pediatrics, Keio University School of Medicine

WS24-09-O/P

The role of mitochondria damage in Imiquimod-induced psoriasis

○ Daisuke Ori¹⁾, Haruna Okude¹⁾, Riko Konishi¹⁾, Takumi Kawasaki²⁾, Taro Kawai^{1,3)}

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WS24-10-O/P

STAT1 binding element in the *Irf8* promoter is required for inducing a distinct inflammatory dendritic state during intracellular pathogen infection

○ Kenta Kikuchi¹⁾, Wataru Kawase²⁾, Yusuke Tsujimura³⁾, Fuki Kudo⁴⁾, Keita Saeki⁴⁾, Takayuki Yoshimoto⁵⁾, Manabu Ato³⁾, Keiko Ozato⁴⁾, Tomohiko Tamura²⁾, Daisuke Kurotaki¹⁾

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WS24-11-O/P

Genetic ablation of the protein tyrosine phosphatase Shp1 in CD11c⁺ cells improves insulin resistance

○ Yoichi Imai¹⁾, Yoriaki Kaneko¹⁾, Masato Kinoshita¹⁾, Junya Suwa¹⁾, Mitsuharu Watanabe²⁾, Yasuyuki Saito³⁾, Hiroshi Ohnishi⁴⁾, Takashi Matozaki³⁾, Keiju Hiromura¹⁾

¹⁾Gunma University Graduate School of Medicine department of Nephrology and Rheumatology, ²⁾NHO Takasaki general medical center department of Nephrology and Rheumatology, ³⁾Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ⁴⁾Department of Laboratory Sciences, Gunma University Graduate School of Health Sciences

WS24-12-P

A group Streptococcus-Derived Proteins and Host Factors Contributing to Innate Inflammation in murine Dendritic Cells

○ Natsuo Yamamoto^{1,2)}, Tsuyoshi Suzuki²⁾, Hideki Yamamoto³⁾, Suguru Ohmiya¹⁾, Masamichi Katsumi¹⁾, Hidekazu Nishimura¹⁾, Ken Iseki²⁾

¹⁾Sendai Virus Center, ²⁾Department of Emergency and Critical Care Medicine, Fukushima Medical University, ³⁾Department of Medical Technology, Graduate School of Health Sciences, Niigata University, Niigata, Japan

WS24-13-P

Dendritic cell decrease in peritoneal exudate cells in liver cirrhosis patients

○ Shiori Kaji¹⁾, Izumi Sasaki²⁾, Takashi Kato³⁾, Daisuke Okuzaki⁴⁾, Sadahiro Iwabuchi⁵⁾, Shinichi Hashimoto⁵⁾, Shin-Ichiroh Saitoh⁶⁾, Tsuneyasu Kaisho²⁾

¹⁾Second Department of Internal Medicine, Wakayama Medical University, ²⁾Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, ³⁾Department of Rheumatology and Clinical Immunology, Wakayama Med Univ, ⁴⁾WPI-Immunology Frontier Research Center, Osaka Univ, ⁵⁾Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, ⁶⁾Department of Intractable Disorders, Institute of Advanced Medicine, Wakayama Medical University

WS24-14-P

Role of migratory dendritic cells in mRNA vaccine-induced CTL differentiation

○ Ryunosuke Muro¹⁾, Suqi Wang²⁾, Taku Ito-Kureha²⁾, Takeshi Nitta¹⁾, Hiroshi Takayanagi²⁾

¹⁾ Division of Molecular Pathology, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo,

WS24-15-O/P

Identification of CIITA degron and ubiquitination site by FBXO11

○ Yusuke Kasuga^{1,3)}, Royota Ouda¹⁾, Masashi Watanabe²⁾, Xin Sun¹⁾, Miki Kimura¹⁾, Atsuki Takeishi^{1,3)}, Tsutomu Tanaka^{1,3)}, Shigetsugu Hatakeyama²⁾, Koichi Kobayashi^{1,3)}

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WS24-16-P

The differentiation of dendritic cells and macrophages in hu-PBL-hIL-4-Tg mouse

○ Ayako Hirota¹⁾, Shino Oshima²⁾, Yuki Hoshino²⁾, Soga Yamada²⁾, Banri Tsuda³⁾, Atsushi Yasuda⁴⁾, Ryoji Ito⁵⁾, Akiko Kanamori^{6,7)}, Tomotaka Mabuchi¹⁾, Hitoshi Ishimoto⁸⁾, Takashi Shiina²⁾, Yosie Kametani²⁾

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WS24-17-P

Adjuvant activated antigen presenting cells increase both the autophagy and immune response

○ Hirokazu Sakuma¹⁾, Mai Shiohata¹⁾, Kahoko Hashimoto^{1,2)}, Naoko Kurosaki^{1,2)}

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December 5

WS25 B cell homeostasis

WS25-01-O/P

The trinity of transcription factors E2A, Ebf1 and Erg guides lymphoid progenitors to B cell lineage

○ Rinako Hayashi¹⁾, Reiko Hidaka¹⁾, Kazuko Miyazaki¹⁾, Takashi Nagasawa²⁾, Hiroshi Kawamoto¹⁾, Masaki Miyazaki¹⁾

¹⁾Institute for Life and Medical Sciences, Kyoto University, ²⁾Graduate School of Frontier Biosciences, Osaka University

WS25-02-O/P

Critical roles of UPF1 in early B cell development

○ Kotaro Akaki, Noriki Iwai, Takashi Mino, Osamu Takeuchi

Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS25-03-O/P

Self-enforcing networks of inflammatory cytokine signaling accelerate the development and recurrence of TCF3::HLF-positive B-ALL

○ Aisa Suzuki, Tsukasa Shigehiro, Tomokatsu Ikawa

Research Institutes for Biomedical Sciences, Tokyo University of Science

WS25-04-O/P

Essential role of ER membrane complex subunit 1 (EMC1) in B cell homing and humoral immunity

○ Kazuhiko Kawata¹⁾, Chie Kikutake²⁾, Mikita Suyama²⁾, Yoshihiro Baba¹⁾

¹⁾Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, ²⁾Medical Institute of Bioregulation, Bioinformatics, Kyushu University, Japan

WS25-05-O/P

Control of IgE production and germinal center B cell survival by Aps/Sh2b2, a member of Lnk-family adaptor proteins

○ Shinya Hidano¹⁾, Masanori Iseki²⁾, Satoshi Takaki¹⁾

¹⁾Department of Immune Regulation, The Research Center for Hepatitis and Immunology, Research Institute, National Center for Global Health and Medicine., ²⁾Department of Immunology and Molecular Genetics, Kawasaki Medical School.

WS25-06-O/P

The J chain acts as a critical regulator for intestinal IgA⁺ plasma cell differentiation before weaning○ Ryo Goitsuka¹⁾, Keiko Fujisaki²⁾¹⁾Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences

WS25-07-O/P

Atypical and non-classical CD45RB^{lo} memory B cells are the majority of circulating SARS-CoV-2 specific B cells following mRNA vaccination or COVID-19○ David Geoffrey Priest¹⁾, Takeshi Ebihara^{2,3)}, Janyerkye Tulyeu⁴⁾, Jonas N. Søndergaard⁴⁾, Yumi Mitsuyama³⁾, Hisatake Matsumoto^{2,3)}, James B. Wing^{1,4,5)}¹⁾Laboratory of Human Single Cell Immunology, World Premier International Research Center Initiative Immunology Frontier Research Center (WPI-IFReC), Osaka University, Suita, Osaka 563-0793, Japan, ²⁾Center for Infectious Disease Education and Research (CiDER), Osaka University, Suita, Osaka 565-0871, Japan, ³⁾Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, Suita, Osaka 565-0871, Japan, ⁴⁾Human Single Cell Immunology Team, Center for Infectious Disease Education and Research (CiDER), Osaka University, Suita, Osaka 565-0871, Japan, ⁵⁾Center for Advanced Modalities and DDS (CAMaD), Osaka University, Osaka, Japan

WS25-08-O/P

The COMMD3/8 complex drives plasmablast differentiation of age-associated B cells during extrafollicular responses in lupus○ Taiichiro Shirai^{1,2)}, Kentaro Kuzuya¹⁾, Kazuhiro Suzuki^{1,2,3)}¹⁾Laboratory of Immune Response Dynamics, Immunology Frontier Research Center, Osaka University, Japan, ²⁾Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Japan, ³⁾Center for Infectious Disease Education and Research, Osaka University, Japan

WS25-09-P

IgA-deficiency breaks immunological and neurological homeostasis

○ Takahiro Adachi

Dept. Precision Health, MRI, TMDU

WS25-10-P

Disruption of plasma cell differentiation through complex interplay of loss, gain, and altered IRF4 functions○ Qing Min¹⁾, Yaxuan Li²⁾, Wenjie Wang³⁾, Xin Meng⁴⁾, Hai Zhang³⁾, Meiping Yu³⁾, Lulu Dong²⁾, Xuzhe Wu²⁾, Xiaochuan Wang³⁾, Ji-Yang Wang^{1,2,3)}¹⁾Shanghai Sci-Tech Inno Center for Infection & Immunity, Shanghai, China, ²⁾Department of Immunology, School of Basic Medical Sciences, Fudan University, Shanghai, China, ³⁾Department of Clinical Immunology, Children's Hospital of Fudan University, National Children's Medical Center, Shanghai, China, ⁴⁾Department of Infectious Diseases, Huashan Hospital, Fudan University, Shanghai, China

WS25-11-P

Function and role of complexin 2-expressing B-1 cells in immune tolerance○ Emi Tsuru¹⁾, Hiroki Mogawa²⁾, Atsuya Nobumoto²⁾, Masaaki Mizobuchi²⁾, Masayuki Tsuda¹⁾¹⁾Institute for Laboratory Animal Research, Science Research Center, Kochi University, ²⁾Equipment Support Planning Office, Kochi University

WS25-12-P

Human RP105 monoclonal antibody promotes antigen-specific antibody production under unique culture conditions○ Tatsuya Yamazaki¹⁾, Kenta Iwasaki²⁾, Susumu Tomono¹⁾, Masaki Imai³⁾, Masanori Inui¹⁾, Daisuke Okuzaki⁴⁾, Sachiko Akashi-Takamura¹⁾¹⁾Department of Microbiology and Immunology, Aichi Medical University School of Medicine, ²⁾Department of Kidney Diseases and Transplant Immunology, Aichi Medical University School of Medicine, ³⁾Department of Medical Technology and Sciences, Kyoto Tachibana University, ⁴⁾Laboratory of Human Immunology (Single Cell Genomics), WPI-IFReC, Osaka University

WS25-13-P

Hu-PBL-NOG-hIL-4-Tg mouse system maintains human adoptive immunity to produce antigen-specific plasmablasts○ Shino Ohshima¹⁾, Soga Yamada¹⁾, Ayako Hirota²⁾, Nagi Katano¹⁾, Banri Tsuda³⁾, Atsushi Yasuda⁴⁾, Yukio Nakamura⁵⁾, Ryoji Ito⁶⁾, Tomotaka Mabuchi²⁾, Hitoshi Ishimoto⁷⁾, Takashi Shiina^{1,8)}, Yoshie Kametani^{1,8)}¹⁾Department of Molecular Life Science, Division of Basic Medical Science, Tokai University School of Medicine, ²⁾Department of Dermatology, Tokai University School of Medicine, ³⁾Department of Palliative Medicine, Tokai University School of Medicine, ⁴⁾Department of Internal Medicine, Division of Nephrology, Endocrinology, and Metabolism, Tokai University School of Medicine, ⁵⁾Repertoire Genesis Inc., ⁶⁾Human Disease Model Laboratory, Department of Applied Research for Laboratory Animals, Central Institute for Experimental Animals, ⁷⁾Department of Obstetrics and Gynecology, Tokai University School of Medicine, ⁸⁾Institute of Advanced Biosciences, Tokai University

WS25-14-P

The dynamics of iron metabolism during antibody secreting cell differentiation

○ Akihiko Muto, Takeshi Kurasawa, Kazuhiko Igarashi

Department of Biochemistry, Tohoku University Graduate School of Medicine

WS25-15-P

Reversal of brain dysfunction through control of senescent cells○ Ayame Nagafuchi¹, Mana Iizuka², Ako Matsui¹, Akihiko Yoshimura², Minako Ito¹¹Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, ²Research Institute for Biomedical Sciences, Tokyo University of Science

WS25-16-P

Bone marrow plasma cells express metallothionein genes in response to IL-6 stimulation○ Ari Itoh-Nakadai¹, Masayuki Shiota³, Atsuko Kayaba³, Akiko Sugahara-Tobinai³, Maiko Kobayashi¹, Shota Endo³, Masanori Inui², Tomoyuki Kawada¹, Ryo Funayama³, Keiko Nakayama³, Toshiyuki Takai³¹Nippon Medical School, ²Aichi Medical Univ., ³Tohoku Univ.

WS25-17-P

Analyses on the roles of extracellular domain of Parm1○ Runa Isshiki¹, Kagefumi Todo², Haruka Honda¹, Masaki Hikida¹¹Graduate School of Engineering Science, Akita University, ²Department of Health and Nutrition, Tokiwa University

WS25-18-P

Analysis on the regulatory mechanism of selective transcription of Parm1 in IgG+ B cells○ Shiori Hatakeyama¹, Kagefumi Todo², Haruka Honda¹, Masaki Hikida¹¹Graduate School of Engineering Science, Akita University, ²Department of Health and Nutrition, Tokiwa University

WS25-19-P

Evaluation of the IRF4 heterocomplexes and homodimers induced by mutations in the IRF association domain and autoinhibitory region○ Katsuya Sato¹, Yupeng Li¹, Setoka Hirano¹, Masatake Osawa², Hitoshi Nagaoka¹¹Department of Molecular Pathobiochemistry, Gifu University School of Medicine, ²Department of Regeneration and Applied Biomedical Sciences, Gifu University School of Medicine

WS25-20-P

Variable gene repertoire analysis of antibodies against SARS-CoV-2 spike protein

○ Makoto Tsuiji, Sayaka Mori, Hinako Ohkusa, Shinichi Fujihara

Department of Microbiology, Hoshi University School of Pharmacy and Pharmaceutical Sciences

December 5

WS26 Systemic Immune Diseases

WS26-01-O/P

Multimodal single-cell analysis revealed B cell receptor dynamic change in systemic lupus erythematosus○ Toshiyuki Shiki Ushijima¹, Hiroyuki Teruya¹, Manaka Goto¹, Hideyuki Takahashi¹, Takahiro Itamiya^{1,2}, Haruka Tsuchiya¹, Hirofumi Shoda¹, Tomohisa Okamura^{1,2}, Keishi Fujio¹¹Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ²Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo

WS26-02-P

Efficacy evaluation of B cell targeting drugs and the involved mechanism of action study in humanized BAFF transgenic SLE mice model

○ Juan Liang, Shuxin Xu, Qiuping Xu, Yuxi Zhang

GemPharmatech Co., Ltd.

WS26-03-O/P

The B cell inhibitory receptor CD72 is a novel C1q receptor that prevents development of SLE by inhibiting B cell response to apoptotic cells○ Hashadi Nadeesha Walakulu Gamage^{1,2,3}, Chizuru Akatsu², Nobutaka Numoto¹, Takahiro Tsuneshige^{1,2,3}, Masatake Asano³, Nobutoshi Ito¹, Takeshi Tsubata^{1,2,3}¹Department of Structural Biology, Medical Research Institute, Tokyo Medical and Dental University, ²Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University, ³Department of Pathology, Nihon University School of Dentistry

WS26-04-O/P

New quantitative and qualitative analytical framework of scRNAseq data reveals the pathophysiology of systemic lupus erythematosus○ Masahiro Nakano¹, Michihiro Kono^{1,2}, Hiroaki Hatano¹, Kenichiro Asahara¹, Takahiro Nishino¹, Haruka Takahashi^{1,2}, Bunki Natsumoto¹, Kazuyoshi Ishigaki^{1,2,3}¹Laboratory for Human Immunogenetics, Riken Center for Integrative Medical Sciences, ²Department of Microbiology and Immunology, Keio University School of Medicine, ³Keio University Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q)

WS26-05-P

Spontaneous Systemic Lupus Erythematosus Mouse Model Based on TLR7^{Y264H} Genetic Mutation

○ Ting Wang, Juan Liang
GemPharmatech Co., Ltd.

WS26-06-O/P

Development of the anti-human TLR7 monoclonal antibody for therapeutic intervention in systemic lupus erythematosus

○ Ryutaro Fukui¹⁾, Yusuke Murakami^{2,1)}, Atsuo Kanno¹⁾, Yuji Motoi¹⁾, Atsushi Manno⁴⁾, Tomohiro Honda⁵⁾, Shinnosuke Yamada⁵⁾, Jun Ishiguro⁶⁾, Kensuke Nakamura⁷⁾, Giorgio Senaldi⁸⁾, Toshiyuki Shimizu³⁾, Kensuke Miyake¹⁾
¹⁾The Institute of Medical Science, The University of Tokyo, ²⁾Department of Pharmaceutical Sciences & Research Institute of Pharmaceutical Sciences, Musashino University, ³⁾Graduate School of Pharmaceutical Sciences, The University of Tokyo, ⁴⁾Discovery Research Laboratories II, Daiichi Sankyo Co., Ltd., ⁵⁾Translational Science Department II, Daiichi Sankyo Co., Ltd., ⁶⁾Discovery Research Laboratories V, Daiichi Sankyo Co., Ltd., ⁷⁾Modality Research Laboratories II, Daiichi Sankyo Co., Ltd., ⁸⁾Clinical development, Daiichi Sankyo, Inc.

WS26-07-P

Pathogenetic role of IFN γ producing CD4⁺T cells in IMQ induced lupus model mice

○ Reona Tanimura, Yuya Kondo, Ryota Sato, Ryohei Nishino, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto
Department of Rheumatology, Faculty of Medicine, University of Tsukuba

WS26-08-P

GATA4 enhances cGAS-STING-dependent production of type I interferons in senescent lupus monocytes

○ Taiga Kuga^{1,2)}, Asako Chiba¹⁾, Goh Murayama²⁾, Kosuke Hosomi¹⁾, Tomoya Nakagawa¹⁾, Yoshiyuki Yahagi^{1,2)}, Makio Kusaoi²⁾, Ken Yamaji²⁾, Naoto Tamura²⁾, Sachiko Miyake¹⁾
¹⁾Department of Immunology, Juntendo University Faculty of Medicine, ²⁾Department of Internal Medicine and Rheumatology, Juntendo University Faculty of Medicine

WS26-09-P

Establishment and pathogenesis analysis of a mouse model of lupus mesenteric vasculitis

○ Maki Fujishiro¹⁾, Kunihiro Hayakawa¹⁾, Marina Shinoura¹⁾, Yuko Kataoka²⁾, Keigo Ikeda²⁾, Shinji Morimoto²⁾
¹⁾Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine, ²⁾Department of Internal Medicine and Rheumatology, Juntendo University Urayasu Hospital

WS26-10-P

Contribution of phosphodiesterase 1B to neuropsychiatric manifestations in lupus-prone mice through microglial activation

○ Shuhei Takeyama¹⁾, Michihito Kono¹⁾, Kohei Karino¹⁾, Yuki Kudo¹⁾, Masatoshi Kanda²⁾, Hiroyuki Nakamura²⁾, Maria Tada¹⁾, Ryo Hisada¹⁾, Yuichiro Fujieda¹⁾, Masaru Kato¹⁾, Olga Amengual¹⁾, Tatsuya Atsumi¹⁾
¹⁾Department of Rheumatology, Endocrinology and Nephrology, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, ²⁾Department of Rheumatology and Clinical Immunology, Sapporo Medical University

WS26-11-P

Elucidation of the impact of high-fat diet on autoimmune disease progression

○ Yulu Liu^{1,2)}, Ayaka Ito^{1,2,3)}, Ibuki Shirakawa²⁾, Azusa Kobayashi²⁾, Michiko Kobayashi²⁾, Takayoshi Suganami^{1,2)}
¹⁾Department of Immunometabolism, Nagoya University Graduate School of Medicine, ²⁾Department of Molecular Medicine and Metabolism, Research Institute of Environmental Medicine, Nagoya University, ³⁾Institute for Advanced Research, Nagoya University

WS26-12-P

CD8T cells depletion promotes human Tph/Tfh and B cells proliferation without graft versus host diseases in PBMC transferred-humanized mice

○ Sota Fujimori, Piruzyan Mariam, Ryota Sato, Sayuka Kato, Yuzo Koda
Oncology & Immunology Unit, Research Division, Mitsubishi Tanabe Pharma Corporation

WS26-13-P

Analysis of regulatory mechanism for T cell activation via Trat1 in Sjögren's syndrome

○ Ruka Nagao¹⁾, Akiko Yamamoto²⁾, Aya Ushio⁴⁾, Kunihiro Otsuka¹⁾, Shigefumi Matsuzawa^{1,3)}, Takaaki Tsunematsu¹⁾, Naozumi Ishimaru⁴⁾
¹⁾Department of Oral Molecular Pathology, Graduate School of Biomedical Sciences, Tokushima Univ., ²⁾Department of Pathology, Nihon Univ. School of Dentistry, ³⁾Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu Univ., ⁴⁾Department of Oral Pathology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental Univ.

WS26-14-O/P

Salivary gland fibroblasts drive autoimmune pathology via the interaction with CD4⁺T cells in Sjögren's syndrome

○ Kunihiro Otsuka^{1,2)}, Hiroyuki Kondo¹⁾, Shin-ichi Tsukumo¹⁾, Naozumi Ishimaru³⁾, Koji Yasutomo¹⁾
¹⁾Department of Immunology and Parasitology, Graduate School of Medicine, Tokushima University, ²⁾Department of Oral Molecular Pathology, Graduate School of Dentistry, Tokushima University, ³⁾Department of Oral Pathology, Tokyo Medical and Dental University Graduate School of Medical and Dental Sciences

WS26-15-P

Skewed TCR usage in pathogenic T cells of SS model mouse

○ Shuhei Mashimo^{1,2)}, Yuriko Tanaka¹⁾, Michitsune Arita¹⁾, Taku Naito¹⁾, Taku Kuwabara¹⁾, Marii Ise¹⁾, Akira Ishiko²⁾, Motonari Kondo¹⁾

¹⁾ Department of Molecular Immunology, Toho University School of Medicine, ²⁾ Department of Dermatology, Toho University School of Medicine

WS26-16-P

Activation of signaling pathways via TLR4 may contribute to the elevated expression of BAFF receptor, BR3, in peripheral monocytes of patients with primary Sjögren's syndrome

○ Keiko Yoshimoto, Yumi Ikeda, Katsuya Suzuki, Hiroyuki Fukui, Kotaro Matsumoto, Masaru Takeshita, Chihiro Takahashi, Tsutomu Takeuchi, Yuko Kaneko

Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine

WS26-17-O/P

Anti-integrin $\alpha\text{v}\beta 6$ antibody in Takayasu arteritis with or without ulcerative colitis

○ Yuki Ishikawa¹⁾, Hiroyuki Yoshida^{2,3)}, Hajime Yoshifuji⁴⁾, Koichiro Ohmura^{4,5)}, Tomoki Origuchi⁶⁾, Tomonori Ishii⁷⁾, Tsuneyo Mimori^{4,8)}, Akio Morinobu⁴⁾, Masahiro Shiokawa²⁾, Chikashi Terao^{1,9,10)}

¹⁾Laboratory for Statistical and Translational Genetics, Center for Integrative Medical Sciences, RIKEN, ²⁾Department of Gastroenterology and Hepatology, Kyoto University Graduate School of Medicine, ³⁾Kansai Electric Power Hospital, ⁴⁾Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, ⁵⁾Department of Rheumatology, Kobe City Medical Center General Hospital, ⁶⁾Department of Immunology and Rheumatology, Unit of Advanced Preventive Medical Sciences, Nagasaki University Graduate School of Biomedical Sciences, ⁷⁾Department of Hematology and Rheumatology, Tohoku Medical and Pharmaceutical University, ⁸⁾Takeda Clinic for Rheumatic Diseases, ⁹⁾Clinical Research Center, Shizuoka General Hospital, ¹⁰⁾School of Pharmaceutical Sciences, University of Shizuoka, The Department of Applied Genetics

WS26-18-O/P

Unravelling the gene regulatory networks driving the polygenetic risk of human complex diseases

○ Haruka Takahashi^{1,2)}, Hiroaki Hatano²⁾, Masahiro Nakano²⁾, Yumi Tsuchida³⁾, Shuji Sumitomo³⁾, Akari Suzuki⁴⁾, Yuta Kochi⁵⁾, Keishi Fujio³⁾, Kazuhiko Yamamoto⁴⁾, Kazuyoshi Ishigaki^{1,2,6)}

¹⁾Department of Microbiology and Immunology, Keio University School of Medicine, ²⁾Laboratory for Human Immunogenetics, Riken Center for Integrative Medical Sciences, ³⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ⁴⁾Laboratory for Autoimmune Diseases, Riken Center for Integrative Medical Sciences, ⁵⁾Department of Genomic Function and Diversity, Division of Biological Data Science, Medical Research Institute, Tokyo Medical and Dental University, ⁶⁾Keio University Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q)

WS26-19-P

Understanding the pathogenesis of Aicardi-Goutières syndrome-like encephalopathy caused by mutations in the RNA-editing enzyme ADAR1

○ Hyebin Yoo¹⁾, Reiichi Sugihara²⁾, Taisuke Nakahama^{1,2,3,4)}, Yuki Kato^{1,2,3)}, Yukio Kawahara^{1,2,3,4,5)}

¹⁾Department of RNA Biology and Neuroscience, Graduate School of Frontier Biosciences, Osaka University, ²⁾Department of RNA Biology and Neuroscience, Graduate School of Medicine, Osaka University, ³⁾Integrated Frontier Research for Medical Science Division and RNA Frontier Science Division, Institute for Open and Transdisciplinary Research Initiatives (OTRI), Osaka University, ⁴⁾Center for Infectious Disease Education and Research (CiDER), Osaka University, ⁵⁾Genome Editing Research and Development Center, Graduate School of Medicine, Osaka University

WS26-20-P

An *Enterococcus* phage-derived enzyme suppresses graft-versus-host disease

○ Kosuke Fujimoto^{1,2)}, Satoshi Uematsu^{1,2)}

¹⁾Department of Immunology and Genomics Graduate School of Medicine, Osaka Metropolitan University, ²⁾Division of Metagenome Medicine, Human Genome Center, The Institute of Medical Science, The University of Tokyo

WS26-21-P

Lysosomal dysfunction in dendritic cells causes autoimmune diseases

Yoshiko Mori Saitoh^{1,2)}, Kenichi Harada³⁾, Yoh Wada^{4,5)}, Ge-Hong Sun Wada⁶⁾, Tamami Denda⁷⁾, Yasunori Ota⁷⁾, Hiroshi Sagara⁸⁾, Yuji Watanabe⁸⁾, Sadahiro Iwabuchi⁹⁾, Shinichi Hashimoto⁹⁾, Kensuke Miyake^{2,10)},
○ Shin-Ichiroh Saitoh^{1,2)}

¹⁾Department of Intractable Disorders, Institute of Advanced Medicine, Wakayama Medical University, ²⁾Division of Infectious Genetics, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, ³⁾Department of Human Pathology, Kanazawa University School of Medicine, ⁴⁾Division of Biological Science, Institute of Scientific and Industrial Research, Osaka University, ⁵⁾Center for Infectious Disease Education and Research (CiDER), Osaka University, ⁶⁾Department of Biochemistry, Faculty of Pharmaceutical Sciences, Doshisha Women's College, ⁷⁾Department of Pathology, Research Hospital, The Institute of Medical Science, The University of Tokyo, ⁸⁾Medical Proteomics Laboratory, The Institute of Medical Science, The University of Tokyo, ⁹⁾Department of Molecular Pathophysiology, Institute of Advanced Medicine, Wakayama Medical University, ¹⁰⁾Laboratory of Innate Immunity, The Institute of Medical Science, The University of Tokyo

WS26-22-P

Point mutation at the ligand binding domain disrupts ROR γ t function in Th17 lineage differentiation and restricts autoimmune diseases

○ Keisuke Miyako^{1,2)}, Toshio Kanno¹⁾, Yusuke Endo¹⁾

¹⁾1. Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ²⁾2. Department of Applied Genomics, Kazusa DNA Research Institute

WS26-23-P

Neuropilin-1 (NRP1) as a potential marker of self-reactive Th cells in autoimmune disease

○ Ben Je Raveney¹, Atsuko Kimura¹, Youwei Lin², Tomoko Okomoto², Atsuko Katsumoto², Reiko Saika², Wakiro Sato¹, Shinji Oki¹, Takashi Yamamura¹

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WS26-24-P

TFAM deficient mice spontaneously develop inflammation and autoantibodies

○ Taku Kuwabara, Yuriko Tanaka, Marii Ise, Taku Naito, Shuhei Mashi, Motonari Kondo
Toho University

WS26-25-O/P

Novel transcriptomic evidence for a shared immunological signature-based treatment of Adult-onset Still's disease and other autoinflammatory diseases

○ Ikuo Takazawa¹, Haruka Tsuchiya¹, Takahiro Itamiya^{1,2}, Harumi Shirai¹, Yumi Tsuchida¹, Yasuo Nagafuchi^{1,2}, Hirofumi Shoda¹, Tomohisa Okamura^{1,2}, Keishi Fujio¹

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

WS26-26-O/P

Isoliquiritigenin inhibits activation of NLRP3 inflammasome with CAPS mutations by suppressing caspase-1 activation and mutant NLRP3 aggregation

○ Koudai Kani¹, Hiroe Honda², Kiyoshi Takatsu², Yoshinori Nagai¹

¹Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²Toyama Prefectural Institute for Pharmaceutical Research

WS26-27-P

Proteasome dysfunction in adipocytes induces lipodystrophy and autoinflammation

○ Rinna Koga, Junko Morimoto, Kunihiro Otsuka, Koji Yasutomo
Department of Immunology and Parasitology, Tokushima University Graduate School of Medicine

WS26-28-P

Phenotypic and Therapeutic Evaluation of Humanized C3 Transgenic Mice as a Model for C3 glomerulopathy-Like Autoimmune Disease

○ Shuxin Xu, Juan Liang, Qiuping Xu, Kaiyuan Zi
GemPharmatech Co., Ltd.

WS26-29-P

Inborn errors of immunity with a missense mutation of *COMMD8*

○ Mizuki Kishi^{1,2}, Taiichiro Shirai^{1,3}, Kazuhiro Suzuki^{1,2,3,4}

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December 5

WS27 Tolerance and immune suppression for disease control

WS27-01-O/P

Orally induced tolerance of DTH depends on the inhibition of sensitization in skin-dLNs by integrin $\alpha 4\beta 7^+$ T cells derived from mesenteric LNs

○ Arisa Akagi¹, Rintaro Shibuya², Sho Hanakawa³, Akihiko Kitoh¹, Kenji Kabashima^{1,3}

¹Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ²Kimberly and Eric J. Waldman Department of Dermatology, Icahn School of Medicine at Mount Sinai, New York City, NY, United States, ³Skin Research Labs, Agency for Science, Technology and Research (A*STAR), Republic of Singapore

WS27-02-O/P

Neural repair and suppression of progression via modulation of microglia by tissue effector Tregs that maintain remission in experimental autoimmune encephalomyelitis

○ Youwei Lin^{1,2}, Takashi Yamamura¹

¹Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, ²Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry

WS27-03-O/P

Irradiation conditioning with head shielding protects allogeneic recipients against acute graft-versus-host disease

○ Ismael Chatita Adolf¹⁾, Sayuri Nakata¹⁾, Takanori Teshima²⁾, Hitoshi Takizawa^{1,3)}

¹⁾Laboratory of Stem Cell Stress, International Research Center for Medical Sciences, Kumamoto Univ., Kumamoto, ²⁾Department of Hematology, Hokkaido Univ. Graduate School of Medicine, Sapporo, ³⁾Center for Metabolic Regulation of Healthy Aging (CMHA), Kumamoto Univ., Kumamoto

WS27-04-O/P

Both the increased expression of PD-1 and the production of humoral factors in stem cells from human exfoliated deciduous teeth reduce the damaging effects of peripheral blood mononuclear cells on human insulin-producing cells

○ Kenta Iwasaki

Department of Kidney disease and Transplant Immunology, Aichi Medical University School of Medicine

WS27-05-O/P

iPSCs engrafted in allogeneic hosts without immunosuppression induce donor-specific tolerance to secondary allografts

○ Tomoki Kamatani¹⁾, Reiko Kimura¹⁾, Satoshi Ikeda²⁾, Makoto Inoue²⁾, Ken-ichiro Seino¹⁾

¹⁾Hokkaido Univ., ²⁾Sumitomo Pharma, Co., Ltd.

WS27-06-O/P

Disulfiram treatment inhibits antibody-mediated transplant rejection by suppressing macrophage activation and B-cell pyrimidine metabolism

○ Etsuko Toda^{1,2)}, Weili Chen¹⁾, Kazuhiro Takeuchi^{3,1)}, Shinobu Kunugi¹⁾, Mika Terasaki¹⁾, Yasuhiro Terasaki¹⁾, Yuya Terashima²⁾, Akira Shimizu¹⁾

¹⁾Nippon Medical School, ²⁾Tokyo University of Science, ³⁾Kagoshima Univ.

WS27-07-O/P

Targeting High CD86 Expression in CD8 T Cells to Enhance Antitumor Immunity in the Tumor Microenvironment

○ Xin Hu¹⁾, Yifang Shui^{1,2)}, Weitao Que¹⁾, Yixian Fan¹⁾, Masayuki Fujino^{1,3)}, Xiao-Kang Li¹⁾

¹⁾National Research Institute for Child Health and Development, ²⁾The First Affiliated Hospital of Zhengzhou University, ³⁾National Institute of Infectious Diseases

WS27-08-P

***Toxoplasma* IST suppresses inflammatory and apoptotic response in cytokine-stimulated hepatocytes**

○ Eun Hee Shin^{1,2,3)}, Seung-Hwan Seo²⁾, Ji-Eun Lee¹⁾, Do-Won Ham¹⁾

¹⁾Seoul National University College of Medicine, ²⁾Seoul National University Institute of Endemic Diseases, ³⁾Seoul National University Bundang Hospital

WS27-09-P

Implications of TIGIT expression and maintenance in suppressing activated T cells

○ Naoko Negishi, Jiro Kitaura, Ko Okumura, Sonoko Habu

Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine

WS27-10-P

Propofol suppresses antibody production in a T cell-dependent manner

○ Susumu Hiraoka^{1,2)}, Hiroki Satooka¹⁾, Takako Hirata¹⁾

¹⁾Department of Fundamental Biosciences, Shiga University of Medical Science, ²⁾Department of Anesthesiology, Shiga University of Medical Science

WS27-11-P

Suppression of antigen specific T cell responses by LAG-3 agonism

○ Taisuke Narazaki, Daisuke Sugiura, Il-mi Okazaki, Takumi Maruhashi, Kenji Shimizu, Taku Okazaki

Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo

WS27-12-P

Sexual Function Deterioration Among Donor and Recipients after Living-Donor Lobar Lung Transplantation (LDLT) Procedure: A Systematic Review

○ Ester Marnita Purba^{1,2)}, Wahyuni Kurniawati^{3,2)}, Rosinta H. P. Purba²⁾, Lintong Hottua Simbolon²⁾

¹⁾Hospitality and Care, Raff Tindal NT, Australia, ²⁾Department of Socioeconomics and Health Research, The Pranala Institute, Indonesia, ³⁾Department of Medical Analyst, Incision Care, Egypt

WS27-13-P

The effects of immune response and Oxytocin on ischemic resistance

○ Ako Matsui, Yoshihiro Harada, Mio Kawazoe, Minako Ito

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

WS27-14-P

Neuromodulation in patients with epilepsy

○ Hiroki Tanaka¹⁾, Kaoru Murakami¹⁾, Chenfung Lee¹⁾, Takeshi Yamasaki²⁾, Rie Hasebe²⁾, Masaaki Murakami^{1,2,3)}

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December 5

WS28 Cytokines and chemokines

WS28-01-O/P

Role of intrathrombotic CX3CR1-CX3CL1 axis during resolution on murine deep vein thrombosis model

○ Mizuho Nosaka, Yuko Ishida, Yumi Kuninaka, Akihiko Kimura, Naofumi Mukaida, Toshikazu Kondo
Wakayama Medical Univ.

WS28-02-O/P

Investigating the Role of CCL20 on Psoriasis and Atopic Dermatitis Using CCL20 Deficient Mice

○ Supanuch Ekronarongchai, Nozomi Sachi, Yomei Kagoshima, Yasuhiro Soga, Sotaro Ozaka, Naganori Kamiyama, Takashi Kobayashi
Department of Infectious Disease Control, Faculty of Medicine, Oita University

WS28-03-P

Involvement of CX3CL1-CX3CR1 axis in restraint stress-induced thymic atrophy and relevant underlying mechanism

○ Yumi Kuninaka, Yuko Ishida, Akiko Ishigami, Mizuho Nosaka, Toshikazu Kondo
Wakayama Medical University

WS28-04-P

Dextran sodium sulfate (DSS)-induced colitis is exacerbated in mice in the absence of C-C motif chemokine ligand 9

○ Yomei Kagoshima^{1,2)}, Sotaro Ozaka²⁾, Nozomi Sachi¹⁾, Supanuch Ekronarongchai¹⁾, Yasuhiro Soga¹⁾, Naganori Kamiyama¹⁾, Takashi Kobayashi¹⁾

¹⁾Department of Infectious Disease Control, Faculty of Medicine, Oita University, ²⁾Department of Gastroenterology, Faculty of Medicine, Oita University

WS28-05-P

Mice lacking C-C motif chemokine ligand 9 developed severe experimental autoimmune encephalomyelitis

○ Nozomi Sachi, Yomei Kagoshima, Supanuch Ekronarongchai, Yasuhiro Soga, Sotaro Ozaka, Naganori Kamiyama, Takashi Kobayashi
Department of Infectious Disease Control, Oita University Faculty of Medicine.

WS28-06-P

CCL28 deficiency exacerbates liver injury in chronic carbon tetrachloride-induced hepatitis

○ Yuta Hara, Masamitsu Bando, Ryohei Okumura, Shunya Hosokawa, Kazuhiko Matsuo, Takashi Nakayama
Division of Chemotherapy, Faculty of Pharmacy, Kindai University

WS28-07-P

Role of CCL28 in eosinophil recruitment into tumor tissues to enhance antitumor immune responses

○ Kazuhiko Matsuo, Shinya Yamamoto, Akihisa Nishida, Mako Yakasaki, Akane Kusanagi, Akari Edamitsu, Yuta Hara, Takashi Nakayama
Kindai University Faculty of Pharmacy

WS28-08-P

Ly6C^{low}MHCII^{high} monocytes/macrophages contribute to renal fibrosis via fractalkine-CX3CR1 axis

○ Yuya Iwahashi^{1,2)}, Yuko Ishida²⁾, Hisanobu Tosuji¹⁾, Yumi Kuninaka²⁾, Mizuho Nosaka²⁾, Mariko Kawaguchi²⁾, Naofumi Mukaida²⁾, Isao Hara¹⁾, Toshikazu Kondo²⁾

¹⁾Wakayama Medical University Department of Urology, ²⁾Wakayama Medical University Department of Forensic Medicine

WS28-09-O/P

Soluble ST2 aggravates asthma by enhancing IL-33-mediated eosinophilic inflammation and cytokine production in ILC2s

○ Pei-Chi Lo³⁾, Yasutaka Motomura¹⁾, Kazuyo Moro^{1,2,3)}

¹⁾Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University, ²⁾Laboratory for Innate Immune Systems, RIKEN-IMS, ³⁾Laboratory for Innate Immune Systems, iFReC, Osaka University

RNA helicase DDX6 plays a role in inflammatory diseases through the IL-6 amplifier, an enhanced activation of NF- κ B in non-immune cells

○ Shintaro Hojyo^{1,2,3}, Seiichiro Naito^{1,4}, Hiroki Tanaka¹, Jing-Jing Jiang¹, Masato Tarumi¹, Ari Hashimoto⁵, Yuki Tanaka^{1,2}, Kaoru Murakami¹, Shimpei I Kubota^{1,2}, Shigeru Hashimoto^{1,3}, Masaaki Murakami^{1,2,3,6}

¹Division of Molecular Psychoneuroimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, ²Quantum Immunology Team, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology (QST), ³Institute for Vaccine Research and Development (HU-IVReD), Hokkaido University, ⁴Department of Cardiovascular Medicine, Graduate School of Medicine, Hokkaido University, ⁵Department of Molecular Biology, Graduate School of Medicine, Hokkaido University, ⁶Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institutes of Natural Sciences

OSMR β -mediated signaling on resident fibroblasts promotes healing of diabetic skin wounds through angiogenesis and granulation proliferation

○ Yuko Ishida¹, Yumi Kuninaka¹, Tadasuke Komori¹, Mizuho Nosaka¹, Akihiko Kimura¹, Atsushi Miyajima², Yoshihiro Morikawa¹, Mariko Kawaguchi¹, Toshikazu Kondo¹

¹Wakayama Medical University, ²The University of Tokyo

aDUSPs regulate the Jak/STAT3-mediated signaling pathway

○ Yuichi Sekine¹, Tadashi Matsuda²

¹Kyoto Pharmaceutical University, ²Hokkaido University

Role of Interleukin-40 in Modulating Macrophage Function and Promoting Inflammatory Development in Allergic Asthma

○ Aixuan Li¹, Katie Wong², Danqi Huang², Wing Hung Ko¹, Chun Kwok Wong^{3,4,2}

¹School of Biomedical Sciences, The Chinese University of Hong Kong, Hong Kong, China, ²Department of Chemical Pathology, The Chinese University of Hong Kong, Hong Kong SAR, China, ³Institute of Chinese Medicine, The Chinese University of Hong Kong, Hong Kong SAR, China. ck-wong@cuhk.edu.hk, ⁴State Key Laboratory of Research on Bioactivities and Clinical Applications of Medicinal Plants, The Chinese University of Hong Kong, Hong Kong, China. ck-wong@cuhk.edu.hk

Identification and characterization of putative enhancer regions that direct *IL6* transcription in murine macrophages

○ Norisuke Kano¹, Takeo Miki¹, Yurina Uehara¹, Daisuke Ori¹, Taro Kawai^{1,2}

¹Nara Institute Science and Technology, ²Life Science Collaboration Center (LiSCo), Nara Institute of Science and Technology (NAIST)

Augmentation of Th17 cells-mediated airway inflammation by aging-related IL-18 production

○ Masakiyo Nakahira, Etsushi Kuroda

Department of Immunology, School of Medicine, Hyogo Medical University

Interleukin-6/gp130 signaling in CD4⁺ T cells promotes the pathogenesis of pulmonary hypertension

○ Takakatsu Inagaki¹, Tomohiko Ishibashi¹, Makoto Okazawa¹, Ryotaro Asano¹, Yui Kotani¹, Xin Ding¹, Tadimitsu Kishimoto², Yoshikazu Nakaoka^{1,3}

¹Department of Vascular Physiology, National Cerebral and Cardiovascular Center Research Institute, ²Department of Immune Regulation, Immunology Frontier Research Center, Osaka University, ³Department of Cardiovascular Medicine, Osaka University Graduate School of Medicine

5,6-dimethylxanthene-4-acetic acid (DMXAA), a Partial STING Agonist, Competes for Human STING Activation

○ Burcu Temizoz^{1,2,5}, Takayuki Shibahara³, Tomoya Hayashi^{1,2,5}, Kouji Kobiyama^{1,2,5}, Erdal Sag⁶, Atsushi Kumanogoh^{7,3}, Masahiro Yamamoto^{7,8}, Mayda Gursel⁹, Seza Ozen⁶, Etsushi Kuroda¹⁰, Cevayir Coban^{2,4,7,5}, Ken J Ishii^{1,2,7,5}

¹Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, ²International Vaccine Design Center (VDesC), The Institute of Medical Science (IMSUT), The University of Tokyo, Tokyo, Japan, ³Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴Division of Malaria Immunology, Department of Microbiology and Immunology, The Institute of Medical Science (IMSUT), The University of Tokyo, Tokyo, Japan, ⁵Core Research for Evolutional Science and Technology (CREST), Japan Science and Technology Agency (JST), Tokyo, Japan, ⁶Department of Pediatric Rheumatology, Hacettepe University, Ankara, Türkiye, ⁷Immunology Frontier Research Center (IFReC), Osaka University, Osaka, Japan, ⁸Department of Immunoparasitology, Division of Infectious Disease, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ⁹MG Laboratory on Vaccines and Immunotherapeutics, Basic and Translational Research Program, Izmir Biomedicine and Genome Center, Izmir, Türkiye, ¹⁰Department of Immunology, School of Medicine, Hyogo Medical University, Hyogo, Japan

WS28-18-O/P

Therapeutic effects of conditioned medium of immortalized dental pulp stem cells from human exfoliated deciduous teeth on the paclitaxel-induced peripheral neuropathy via TIMP-1

○ Miu Yamagishi, Eri Horio, Natsuki Yamaguchi, Jukito Sonoda, Satomi Miyakawa, Shinya Inoue, Fumihiro Murakami, Ning Qu, Yasuhiro Katahira, Hideaki Hasegawa, Takayuki Yoshimoto

Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, 6-1-1, Shinjuku-ku, Tokyo, Japan

WS28-19-O/P

Role of the Microbiota-Derived Corisin in Acute Kidney Injury

○ Tomoko Anou¹⁾, Taro Yasuma^{1,2)}, Corina Gabazza¹⁾, Chisa Inoue^{1,2)}, Yuko Okano^{1,2)}, Atsuro Takeshita^{1,2)}, Masaaki Toda¹⁾, Kota Nishihama²⁾, Mei Uemura²⁾, Yutaka Yano²⁾, Esteban Gabazza¹⁾

¹⁾Department of Immunology, Mie University Graduate School of Medicine, ²⁾Department of Diabetes & Endocrinology, Mie University Graduate School of Medicine

WS28-20-P

Human endothelial cells are directly affected by monosodium urate crystal without activation of NLRP3 in hyperuricemia

○ Motokazu Tsuneto¹⁾, Yuka Katsukura²⁾, Naruomi Yamada³⁾, Akika Nagira³⁾, Ichiro Hisatome⁴⁾

¹⁾Division of regenerative medicine and therapeutics, Tottori university, ²⁾Research Team 2, Wellness Science Labs, Meiji Holdings Co., Ltd.,

³⁾Nutrition and Food Function Group, Health Science Research Unit R&D Division Meiji Co., Ltd., ⁴⁾Yonago Medical Center

WS28-21-P

Pre-incubation with two anti-TLR4 mAbs decreases the production of proinflammatory cytokines in LPS-stimulated Kupffer cells

○ Bristy Basak, Masanori Inui, Tatsuya Yamazaki, Susumu Tomono, Sajid Iftexhar Chowdhury, Sachiko Akashi Takamura

Aichi Medical University

WS28-22-P

Therapeutic effects of conditioned medium of immortalized stem cells from human exfoliated deciduous teeth on the diabetic peripheral neuropathy in a mouse model of streptozotocin-induced diabetes mellitus

○ Eri Horio, Natsuki Yamaguchi, Jukito Sonoda, Miu Yamagishi, Satomi Miyakawa, Shinya Inoue, Fumihiro Murakami, Hiromitsu Amamizu, Yasuhiro Katahira, Hideaki Hasegawa, Izuru Mizoguchi, Takayuki Yoshimoto

Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University

WS28-23-P

Three cytokine pairs modulate sepsis effects at the organism level

○ Michihiro Takahama^{1,2)}, Nicolas Chevrier²⁾

¹⁾Graduate School of Pharmaceutical Sciences, Osaka University, ²⁾Pritzker School of Molecular Engineering, University of Chicago

WS28-24-P

CD40-TRAF5 axis controls antibody production and germinal center formation *in vivo*

○ Mari Hikosaka-Kuniishi¹⁾, Chieri Iwata¹⁾, Yusuke Ozawa¹⁾, Sayaka Ogawara¹⁾, Tomomi Wakaizumi¹⁾, Ayaka Sato¹⁾, Riho Itaya¹⁾, Soichiro Kobayashi¹⁾, Ren Sunakawa¹⁾, 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

WS28-25-P

Development and Application of Digital Bioassays as a Biomarker Detection Technology

○ Takuya Komachi¹⁾, Yuji Kubo¹⁾, Yoichi Makino¹⁾, Yoshihiro Minagawa²⁾, Hiroshi Ueno²⁾, Kazuhito Tabata²⁾, Hiroyuki Noji²⁾

¹⁾Technical Research Institute, TOPPAN Holdings Inc., ²⁾Department of Applied Chemistry, School of Engineering, The University of Tokyo

WS28-26-P

Bleomycin-induced Pulmonary Fibrosis in Transgenic Mice Carrying the Human MUC5B rs35705950 variant

○ Yurie Kogue¹⁾, Corina Gabazza²⁾, Taro Yasuma²⁾, Tomohito Okano¹⁾, Masaaki Toda²⁾, Tetsu Kobayashi¹⁾, Esteban Gabazza²⁾

¹⁾Department of Respiratory and Critical Medicine, Mie University Graduate School of Medicine, ²⁾Department of Immunology, Mie University Graduate School of Medicine

WS29 Cell therapy, vaccine, and new therapeutic modality

WS29-01-O/P

Development of new adoptive T cell therapy that overcomes tumor heterogeneity with escape variant tumor clones

○ Kiyoshi Yasui¹⁾, Daisuke Ehara^{1,2)}, Mitsuhiro Yoneda¹⁾, Situo Deng¹⁾, Sachiko Okamoto³⁾, Yasunori Amaishi³⁾, Daisuke Muraoka⁴⁾, Naohisa Ogo⁵⁾, Akira Asai⁵⁾, Hiroyuki Murota²⁾, Hiroaki Ikeda¹⁾

¹⁾Nagasaki Univ. Grad. Sch. of Biomed. Sci., Dept. of Oncology, ²⁾Nagasaki Univ. Grad. Sch. of Biomed. Sci., Dept. of Dermatology, ³⁾Tech. Development Ctr, Takara Bio Inc., ⁴⁾Aichi Cancer Ctr. Res. Inst., Div. of Translational Oncoimmunology, ⁵⁾Ctr. for Drug Discovery, Grad. Div. Pharm., Univ. of Shizuoka

WS29-02-P

Development of a split and universal Chimeric Antigen Receptor system targeting solid tumors

○ Hiroyuki Kadota, Tsukasa Shigehiro, Yuki Narita, Shogo Tanimori, Jia Han, Tomokatsu Ikawa

Tokyo University of Science, Research Institute for Biomedical Sciences

WS29-03-O/P

The relationship between receptor shedding and Trogocytosis

○ Atsutaka Minagawa, Shin Kaneko

Kyoto University

WS29-04-O/P

Efficient production of CAR-NK cells with a potent antitumor effect using leukocyte progenitor cells

○ Jia Han, Tsukasa Shigehiro, Shogo Tanimori, Hiroyuki Kadota, Karin Noma, Tomokatsu Ikawa

Tokyo University of Science, Research Institute for Biomedical Science

WS29-05-P

Development of CAR macrophage therapy for the treatment of solid tumors

○ Kyoko Fukuda¹⁾, Masahiro Kariya²⁾, Lan Yi Li³⁾, Kazunobu Ohnuki¹⁾, Masamichi Ide²⁾, Tetsuya Nakatsura¹⁾, Yuichiro Hagiya²⁾, Tianyi Liu⁴⁾, Yasushi Uemura¹⁾

¹⁾National Cancer Center, ²⁾Innovative Technology Lab., AGC Inc., ³⁾Dept. Cancer Therapy Develop. Beijing Tianyifang Bio. Dev. Co., Ltd, ⁴⁾Inst. Oncol. Chinese PLA General Hosp., Beijing, China

WS29-06-O/P

Imaging of biphasic signalosomes constructed by checkpoint receptor 2B4 in conventional and CAR-T cells

○ Ryohei Matsushima^{1,2)}, Ei Wakamatsu¹⁾, Hiroaki Machiyama¹⁾, Wataru Nishi²⁾, Yosuke Yoshida^{1,3)}, Tetsushi Nishikawa^{1,4)}, Hiroko Toyota¹⁾, Masae Furuhashi¹⁾, Hitoshi Nishijima¹⁾, Arata Takeuchi¹⁾, Makoto Suzuki²⁾, Tadashi Yokosuka¹⁾

¹⁾Tokyo Medical University department of Immunology, ²⁾Kumamoto University department of Thoracic Surgery, ³⁾Tokyo Medical University Department of Nephrology, ⁴⁾Tokyo Medical University Department of Dermatology

WS29-07-P

Endogenous TCRs contribute CAR-T cells activation by clustering with self antigen-MHCs

○ Hiroaki Machiyama¹⁾, Ei Wakamatsu¹⁾, Arata Takeuchi¹⁾, Hitoshi Nishijima¹⁾, Masae Furuhashi¹⁾, Hiroko Toyota¹⁾, Mamonkin Maksim²⁾, Tadashi Yokosuka¹⁾

¹⁾Tokyo Medical University, ²⁾Baylor College of Medicine

WS29-08-O/P

Breast cancer specific antigen recognition by TIL-derived MR1-restricted TCRs

○ Abdul Hayee¹⁾, Eiji Kobayashi¹⁾, Hiroshi Hamana²⁾, Chihiro Motozono³⁾, Satoshi Yamaguchi¹⁾, Ha Thi Viet My¹⁾, Tatsuhiro Ozawa¹⁾, Hiroyuki Kishi¹⁾

¹⁾Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, Toyama, Japan, ²⁾Shinobi Therapeutics Co., Ltd., Kyoto, Japan, ³⁾Division of Infection and Immunity, Joint Research Center for Human Retrovirus Infection, Kumamoto University, Kumamoto, Japan

WS29-09-P

Identification of tumor-reactive T-cell clones proliferating in tumor-draining lymph nodes

○ Mikiya Tsunoda¹⁾, Munetomo Takahashi²⁾, Hiroyasu Aoki³⁾, Masaki Kurosu¹⁾, Haru Ogiwara¹⁾, Shigeyuki Shichino¹⁾, Kouji Matsushima¹⁾, Satoshi Ueha¹⁾

¹⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Faculty of Medicine, The University of Tokyo, ³⁾Department of Preventive Medicine, Graduate School of Medicine, The University of Tokyo

WS29-10-P

Combination of T cell therapy and a compound 433 overcomes tumor heterogeneity

○ Pengyu Miao¹⁾, Situo Deng¹⁾, Daisuke Ehara^{1,2)}, Daisuke Muraoka³⁾, Naohisa Ogo⁴⁾, Mitsuhiro Yoneda¹⁾, Kiyoshi Yasui¹⁾, Akira Asai⁴⁾, Hiroaki Ikeda¹⁾

¹⁾Dept. of Oncology, Nagasaki Univ. Grad. Sch. of Biomed. Sci., ²⁾Dept. of Dermatology, Nagasaki Univ. Grad. Sch. of Biomed. Sci., ³⁾Div. of Translational Oncoimmunology, Aichi Cancer Ctr. Res. Inst., ⁴⁾Ctr. for Drug Discovery, Grad. Div. Pharm., Univ. of Shizuoka

WS29-11-O/P

Antigenic functions of glioblastoma-enriched glycosphingolipid modulating human iNKT cell functions

○ Masaki Terabe¹⁾, Morgan Coombs¹⁾, Tyrone Dowdy¹⁾, Md Masud Alam¹⁾, Seketoulie Keretsu¹⁾, Kelsey Smith²⁾, Jenny Gumperz²⁾, Mioara Larion¹⁾

¹⁾National Cancer Institute, NIH, ²⁾Univ. Wisconsin-Madison

WS29-12-P

Antibody-dependent cellular cytotoxicity of induced pluripotent stem cell-derived natural killer T cells by anti-GD2 monoclonal antibody for neuroblastoma

○ Katsuhiro Nishimura^{1,2)}, Takahiro Aoki^{1,3)}, Midori Kobayashi¹⁾, Mariko Takami¹⁾, Daisuke Katsumi^{1,2)}, Hiroko Yoshizawa^{1,2)}, Shugo Komatsu²⁾, Haruhiko Koseki⁴⁾, Tomoro Hishiki²⁾, Shinichiro Motohashi¹⁾

¹⁾Department of Medical Immunology, Graduate School of Medicine, Chiba University, ²⁾Department of Pediatric Surgery, Graduate School of Medicine, Chiba University, ³⁾Department of Pediatrics, Graduate School of Medicine, Chiba University, ⁴⁾Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Sciences

WS29-13-P

Establishment and induction of long-term cancer immune memory by RK-LIPO activated NKT cells and elucidation of its antitumor mechanism

○ Toshi Jinnohara¹⁾, Masumi Takahashi¹⁾, Takashi Taida²⁾, Masaru Taniguchi¹⁾, Hiroshi Ohno¹⁾

¹⁾RIKEN IMS, ²⁾Chiba Univ

WS29-14-P

Engineering TCR-controlled Fuzzy Logic into CAR T Cells Enhances Therapeutic Specificity

○ Taisuke Kondo¹⁾, François Bourassa²⁾, Sooraj Achar^{1,3)}, Grégoire Altan-Bonnet¹⁾, Paul François²⁾, Naomi Taylor¹⁾

¹⁾National Institutes of Health, ²⁾McGill University, ³⁾University of Oxford

WS29-15-P

A combination of systemic plus intra-tumor neopeptide vaccination controls tumors in a mouse model

○ Kou Hioki¹⁾, Melisa D. Castro Eiro¹⁾, Ling Li¹⁾, Marlous Wildemans¹⁾, Youkyung Lim¹⁾, Harmen J. G. van de Werken¹⁾, Yvonne M. Mueller¹⁾, Burcu Temizoz²⁾, Kouji Kobiyama²⁾, Christopher Schliehe¹⁾, Ken J. Ishii²⁾, Peter D. Katsikis¹⁾

¹⁾Department of Immunology; Erasmus University Medical Center, Rotterdam, the Netherlands, ²⁾Division of Vaccine Science, Department of Microbiology and Immunology, International Vaccine Design Center (vDesC), The Institute of Medical Science, The University of Tokyo (IMSUT), Tokyo, Japan

WS29-16-P

Identification of immunogenic HLA class I and II neoantigens using surrogate immunopeptidomes

○ Serina Tokita^{1,2)}, Takayuki Kanaseki^{1,2)}, Toshihiko Torigoe^{1,2)}

¹⁾Department of Pathology, Sapporo Medical University, ²⁾Joint Research Center for Immunoproteogenomics, Sapporo Medical University

WS29-17-P

HLA-II neoantigen presentation in the TME and CD4⁺ T cell surveillance in colorectal cancer

○ Satoru Matsumoto^{1,2)}, Takayuki Kanaseki^{1,3)}, Takahiro Tsujikawa⁴⁾, Serina Tokita^{1,3)}, Toshihiko Torigoe¹⁾

¹⁾Department of Pathology, Sapporo Medical University School of Medicine, ²⁾IMS Sapporo Digestive Disease Center General Hospital, ³⁾Sapporo Medical University Joint Research Center for Immunoproteogenomics, ⁴⁾The Department of Otorhinolaryngology-Head and Neck Surgery, Kyoto Prefectural University of Medicine

WS29-18-P

Development of mRNA vaccines targeting common cancer antigens

○ Nobuo Tsukamoto, Honoka Nishide, Hiroki Kinoshita, Kazunobu Onuki, Alicia Cristina Pena-Romero, Kazumasa Takenouchi, Tetsuya Nakatsura

Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center

WS29-19-P

IFN-γ-Induced MHC Class II Expression on Tumor Cells Plays a Crucial Role in Anti-Cancer Immunity Induced by mRNA Cancer Vaccine

○ Mahiro Shibata^{1,2)}, Hui Jin^{1,2)}, Hisashi Arase^{1,2)}

¹⁾Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Immunochemistry, Frontier Research Center for Immunology, Osaka University

WS29-20-P

Bacterial infection Induces transient melanoma dedifferentiation with attenuated antigenicity

○ Yutaka Horiuchi, Sara Hatazawa, Yukie Ando, Momo Mataka, Takashi Murakami

Dept. Microbiol., Fac. Med., Saitama Med. Univ.

WS29-21-P

Peptide immunotherapy targeting FAP-positive fibroblasts

○ Keiko Uda¹, Taro Komatsu¹, Yuki Tanaka², Kousuke Onoue², Yoshiko Yamashita², Kazuhide Onoguchi², Ryo Tanaka³, Yoichiro Iwase³, Naoki Sakaguchi^{3,4}

¹Department of Immunology, School of Medicine, Kochi University, ²Division of AI Drug Development, NEC Corporation, ³Pharmaceutical Solutions Division, R&D, TERUMO Corporation, ⁴Previous affiliation

WS29-22-P

MONTANID™ ISA 51 VG: open access adjuvant dedicated to therapeutic vaccines

○ Ko Sugahara¹, Jaymes Bryant Tibig^{2,3}, Dorine Hello²

¹Air Liquide Japan GK, ²SEPPIC SA, ³Université Claude Bernard Lyon

WS29-23-P

Intradermal injection of protein using a needle-free pyro-drive jet injector augments potent CD8⁺ T cell-mediated antitumor immunity via its shear stress-induced HMGB1

○ Izuru Mizoguchi¹, Jukito Sonoda¹, Natsuki Yamaguchi¹, Eri Horio¹, Satomi Miyakawa¹, Mingli Xu¹, Toshihiko Yoneto¹, Yasuhiro Katahira¹, Hideaki Hasegawa¹, Takashi Hasegawa², Kunihiro Yamashita², Takayuki Yoshimoto¹

¹Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, ²Department of Device Application for Molecular Therapeutics, Graduate School of Medicine, Osaka University

WS29-24-P

Enhancing whole-cell vaccine effectiveness by inducing immunogenic cell death in combination with needle-free injectors

○ Kunihiro Yamashita^{1,3}, Chin-Yang Chang², Jiayu A. Tai¹, Yu-Diao Kuan¹, Tomoyuki Nishikawa¹

¹Department of Device Application for Molecular Therapeutics, Graduate School of Medicine/Faculty of Medicine, Osaka Univ., ²Department of Gene and Stem Cell Regenerative Therapy, Graduate School of Medicine/Faculty of Medicine, Osaka Univ., ³Daicel Corporation

WS29-25-P

Analyzing the Effectiveness of Recombinant Oncolytic Vaccinia Viruses with Human b-Defensin 2 in Boosting Anti-Tumor Immunity using Predictive Modelling of Immune Responses

○ Prihantini¹, Rifaldy Fajar², Sahnaz Vivinda Putri³, Andi Nursanti Andi Ureng⁴

¹Bandung Institute of Technology, ²Yogyakarta State University, ³Daeng Radja Hospital, ⁴Andini Persada College of Health Sciences

WS29-26-O/P

In vivo Generation of Designer antigen-presenting cells using mRNA for Cancer Immunotherapy

○ Tomoyoshi Yamano, Toan Van Le, Shota Imai, Iriya Fujitsuka, Rikinari Hanayama

Department of Immunology, Kanazawa University

WS29-27-P

A novel cell therapy using CCL19-expressing allogeneic mesenchymal stem cells exerts robust anti-tumor effects by accumulating CD103⁺ dendritic cells and priming CD8⁺ T cells without involving draining lymph nodes

○ Yuichi Iida, Mamoru Harada

Department of Immunology, Faculty of Medicine, Shimane University

WS29-28-O/P

Antitumor immunity via harnessing nano-sized membrane vesicles

○ Mirei Kataoka¹, Yusuke Ito¹, Seiichi Ohta², Yuki Kagoya¹

¹Keio University, ²The University of Tokyo

WS29-29-P

Development and evaluation of a novel DDS formulation using shark antibodies

○ Yuki Nitta^{1,2}, Wataru Takagi¹, Susumu Hyodo¹, Masahiro Yasunaga^{1,2}

¹Tokyo Univ., ²National Cancer Center

Awards Ceremony and Lectures

Awards Ceremony and Lectures

12月4日（水） Wednesday, 4th 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（2025 年度）
Meritorious Member (2025)

小安 重夫 氏
Dr. Shigeo Koyasu

第 27 回日本免疫学会賞授賞式 / 27th JSI Award Ceremony

第 27 回日本免疫学会賞受賞者
27th JSI Award Winner

「リンパ球動態の新たな制御機構の解明」
“Elucidation of novel mechanisms for the control of lymphocyte trafficking”
鈴木 一博 氏（大阪大学免疫学フロンティア研究センター 免疫応答動態学）
Dr. Kazuhiro Suzuki, Osaka University

第 11 回日本免疫学会ヒト免疫研究賞授賞式 / 11th JSI Human Immunology Research Award Ceremony

第 11 回日本免疫学会ヒト免疫研究賞受賞者
11th JSI Human Immunology Research Award Winner

「新しい免疫受容体の発見から炎症性疾患に対する創薬開発研究へ」
“From the discovery of novel immunoreceptors to the development of therapeutic antibodies for inflammatory diseases”
渋谷 彰 氏（筑波大学医学系医療系 革新的創薬開発研究センター）
Dr. Akira Shibuya, University of Tsukuba

第 11 回日本免疫学会女性免疫研究者賞授賞式 / 11th JSI Women Immunologist Award Ceremony

第 11 回日本免疫学会女性免疫研究者賞受賞者
11th JSI Women Immunologist Award Winner

「胸腺上皮細胞の分化と T 細胞老化に関する研究」
“Study on the Development of Thymic Epithelial Cells and T-Cell Aging”
濱崎 洋子 氏（京都大学 iPS 細胞研究所 京都大学大学院医学研究科）
Dr. Yoko Hamazaki, Kyoto 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 be start following ceremonies.

第 19 回日本免疫学会研究奨励賞授賞式 / 19th JSI Young Investigator Award Ceremony

第 19 回日本免疫学会研究奨励賞受賞者（五十音順）

19th JSI Young Investigator Award Winners

「免疫抑制受容体 PD-1 による遺伝子選択的・細胞選択的抑制機構の解明」

“Selective regulation of genes and cells by the immunoinhibitory receptor PD-1”

清水 謙次 氏（東京大学大学院 医学系研究科 定量生命科学研究所 分子免疫学分野）

Dr. Kenji Shimizu, The University of Tokyo

「寄生虫による免疫抑制メカニズムの解明」

“Immunomodulatory mechanisms by parasites”

下川 周子 氏（国立感染症研究所 寄生動物部）

Dr. Chikako Shimokawa, National Institute of Infectious Diseases

「腸内細菌代謝機構と宿主免疫・慢性炎症に関する研究」

“The Impact of Gut Microbial Metabolism on Host Immunity and Chronic Inflammation”

竹内 直志 氏（スタンフォード大学 医学部）

Dr. Tadashi Takeuchi, Stanford University

「1 細胞トランスクリプトーム解析の活用による好塩基球の分化経路ならびに皮膚アレルギー制御機構の解明」

“Elucidation of the Basophil Differentiation Trajectory and Skin Allergy Regulation Mechanisms Using Single-Cell Transcriptome Analysis”

三宅 健介 氏（東京医科歯科大学 統合研究機構）

Dr. Kensuke Miyake, Tokyo Medical and Dental University

「 $\gamma\delta$ T 細胞の分化と選択におけるシグナル伝達の分子機構」

“Molecular mechanisms of TCR signaling in $\gamma\delta$ T cell development and selection”

室 龍之介 氏（東京大学大学院 医学系研究科 免疫学）

Dr. Ryunosuke Muro, The University of Tokyo

※研究奨励賞受賞者の研究課題については、12月4日（水）16時40分からポスター発表をいたします。

*The above JSI Young Investigator Award, Winners' Posters Discussion will be started from 16:40 on 4th December.

International Immunology Outstanding Merit Award Ceremony

International Immunology Outstanding Merit Award for 2023 Winner

“SARS-CoV-2 ORF8 is a viral cytokine regulating immune responses”

Dr. Masako Kohyama, Osaka University

若手免疫学研究推進事業 / Outstanding Young Immunology Researcher Award Winners Introduction

2024 年若手免疫学研究推進事業受賞者（五十音順）

Outstanding Young Immunology Researcher Award 2024 Winners

「転移再発頭頸部がんにおける Nivolumab 耐性機序の解明とバイオマーカーの探索」

“Exploration of the mechanisms of resistance to Nivolumab and the predictive biomarkers in recurrent/metastatic HNSCC”

奥村 元紀 氏（国立がん研究センター東病院 先端医療開発センター 免疫 TR 分野）

Dr. Genki Okumura, National Cancer Center Hospital

「2 型自然リンパ球と舌免疫系クロストークを介した組織バリア形成機構の解明」

“ILC2-mediated tongue immunological crosstalk orchestrates the integrity of oral barrier function”

古賀 諭 氏（大阪大学医学系研究科 感染症・免疫学講座 生体防御学教室）

Dr. Satoshi Koga, Osaka University

「肝癌悪性化に寄与する線維化機構と微小免疫環境の本態解明に関する研究」

“Decoding Fibrosis-Induced Malignancy and the Role of the Immune Microenvironment in Liver Cancer”

森田 覚 氏（慶應義塾大学 微生物学免疫学教室 本田研究室）

Dr. Satoru Morita, Keio University

若手女性研究者研究支援事業 / Outstanding Young Women Researcher Award Winners Introduction

2024 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 2024 Winners

「部位特異的な糖転移酵素による糖鎖修飾メカニズム及び腸管恒常性維持機構の解明」

“Elucidation of the glycan modification mechanism by site-specific glycosyltransferases and their impact on gut homeostasis”

石橋 亜衣里 氏（大阪大学大学院医学系研究科 免疫制御学教室）

Dr. Airi Ishibashi, Osaka University

「全身性エリテマトーデスに自律神経 - 腸内細菌軸が関与するメカニズムの探究」

“Exploration of the Mechanism Involving the Autonomic Nervous System-Gut Microbiota Axis in Systemic Lupus Erythematosus”

白柏 魅怜 氏（京都大学医学部附属病院 免疫・膠原病内科）

Dr. Mirei Shirakashi, Kyoto University Hospital

「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” Scholarship for Doctoral Students in Immunology Winners Introduction

2022 年度採択者（五十音順）

2022 Winners

「抑制性免疫補助受容体による T 細胞活性化抑制機構の解析」

“Molecular mechanisms of T cell suppression by inhibitory co-receptors”

阿比留 龍喜 氏（東京大学）

Mr. Ryuki Abiru, The University of Tokyo

「乳汁免疫因子による子の大腸細菌叢の長期的な制御」

“Long-term influence of maternal immune factors on offspring’s large intestinal microbiota, independent of offspring immunity”

伊東 加織 氏（東北大学）

Ms. Kaori Ito, Tohoku University

「樹状細胞の分化並びに遺伝子発現を制御する転写調節因子の機能と免疫関連疾患への寄与」

“The roles of transcription factors in dendritic cell-mediated immune response”

伊藤 直人 氏（東京理科大学）

Mr. Naoto Ito, Tokyo University of Science

「硫酸化糖鎖の粘膜バリア機構における生理的意義および病態との関連」

“Roles of sulfated mucin in the intestinal homeostasis”

岡本 翔太 氏（大阪大学）

Mr. Shota Okamoto, Osaka University

「気道 M 細胞の分化機構と呼吸器疾患における機能の解明」

“Differentiation and function of iBALT M cells induced by influenza infection”

河合 真悟 氏（慶應義塾大学）

Mr. Shingo Kawai, Keio University

「LGP2:MDA5:RNA 複合体の構造可視化による自然免疫応答の理解」

“Self vs. non-self RNA discrimination in immune response by disease-associated MDA5 mutant”

栗原 新奈 氏（東京大学）

Ms. Nina Kurihara, The University of Tokyo

「Memory-phenotype CD4+ T 細胞による腸管虚血再灌流障害の増悪機構の解明」

“Naturally arising memory-phenotype CD4+ T lymphocytes rapidly accumulate in ischemic organs to exacerbate the tissue injury in an innate manner”

佐藤 皓祐 氏（東北大学）

Mr. Kosuke Sato, Tohoku University

「ループス腎炎を誘導するパトローリング単球の解析」

“Analysis of patrolling monocytes that drive lupus nephritis”

田中 麗華 氏（東京大学）

Ms. Reika Tanaka, The University of Tokyo

「DNA メチル化に着目した単核貪食細胞分化におけるエピゲノム解析」

“Global DNA methylation analysis in differentiation of mononuclear phagocytes”

山崎 貴弥 氏（横浜市立大学）

Mr. Takaya Yamasaki, Yokohama City University

2023 年度採択者（五十音順）

2023 Winners

「関節リウマチ炎症滑膜内における B 細胞応答の解明」

“Investigation of B cell responses in the synovium of rheumatoid arthritis”

赤嶺 綸子 氏（京都大学）

Ms. Rinko Akamine, Kyoto University

「新生児期の免疫異常と皮膚 dysbiosis が引き起こすアトピー性皮膚炎“発症起点”の解明」

“Elucidating the mechanism of atopic dermatitis triggered by neonatal skin dysbiosis and immune imbalance”

伊藤 朋香 氏（大阪大学）

Ms. Tomoka Ito, Osaka University

「脳神経細胞障害からの回復過程における内因性オピオイドの役割」

“Role of endogenous opioids in the recovery process from brain neuronal damage.”

川副 明生 氏（九州大学）

Ms. Mio Kawazoe, Kyushu University

「新規免疫制御因子の遺伝子変異を伴う先天性免疫異常症の病態解明」

“Elucidating the pathogenesis of inborn errors of immunity associated with genetic mutations of a novel immunoregulatory molecule”

喜枝 美月 氏（大阪大学）

Ms. Mizuki Kishi, Osaka University

「可溶型 CD155 の除去によるがん免疫抑制機構の解明」

“Elucidation of the role of soluble CD155 in tumor immunity”

木下 翔太 氏（筑波大学）

Mr. Shota Kinoshita, University of Tsukuba

「抗生物質寛容型細菌の免疫逃避機構の解明」

“Strategies of antibiotic tolerant bacteria for overcoming host immunity”

木村 宇輝 氏（鳥取大学）

Mr. Uki Kimura, Tottori University

「MHC クラス II による新規腸管免疫制御機構解明」

“Regulation of immune response in intestine by MHC class II molecules”

千菊 智也 氏（東京大学）

Mr. Tomoya Sengiku, The University of Tokyo

「自己炎症性疾患の特徴をもつ免疫介在性疾患の網羅的解析」

“Comprehensive analysis of immune-mediated diseases with characteristics of autoinflammatory disorders”

高澤 郁夫 氏（東京大学）

Mr. Ikuo Takazawa, The University of Tokyo

「ストレス造血における造血幹細胞における運命制御のメカニズムの解明」

“Elucidation of mechanisms that regulate hematopoietic stem cell fate decisions under stress hematopoiesis”

虎谷 和則 氏（京都大学）

Mr. Kazunori Toratani, Kyoto University

「新規治療標的の探索に資する腫瘍特異的 Tsg1 発現マクロファージの同定とその機能解析」

“Identification and functional analysis of tumor-specific macrophage subsets for discovery of novel therapeutic targets”

倉谷 歩見 氏（大阪大学）

Ms. Ayumi Kuratani, Osaka University

「細胞傷害性 CD4 T 細胞による腫瘍の免疫監視」

“Immune surveillance of tumor cells mediated by cytotoxic CD4+ T cells”

田村 ベリース結実 氏（広島大学）

Ms. Yumi Tamura, Hiroshima University

2024 年度採択者（五十音順）

2024 Winners

「小腸から胸腺へ移行した樹状細胞による新たな食物アレルギー回避機構の立証」

“Thymic dendritic cells involved in T cell selection migrate from the small intestine”

石井 寛斗 氏（横浜市立大学）

Mr. Hiroto Ishii, Yokohama City University

「腸管上皮 Microfold 細胞欠失による腸内細菌叢への影響と T2D モデルとの関連についての探索」

“Investigating the Impact of Intestinal Microfold Cells on Gut Microbiota Structure and Function Using Synthetic Bacterial Community”

伊藤 光希 氏（東京理科大学）

Ms. Mitsuki Itou, Tokyo University of Science

「腸管上皮細胞のレチノイド X 受容体を介したバリア機構の解明」

“Elucidation of Barrier Mechanisms Mediated by Retinoid X Receptor in Intestinal Epithelial Cells”

杉山 ひなた 氏（慶應義塾大学）

Ms. Hinata Sugiyama, Keio University

「抗ウイルス応答におけるゴルジ体ストレス応答の機能解析」

“Functional analysis of Golgi Stress Response (GSR) in antiviral response”

豊留 里奈 氏（奈良先端科学技術大学院大学）

Ms. Rina Toyodome, Nara Institute of Science and Technology

「RNA 構造を標的とした核酸医薬による抗腫瘍免疫制御法の開発」

“Development of antitumor immune control strategy by nucleic acid medicine targeting RNA structure.”

村岡 慎太郎 氏（京都大学）

Mr. Shintaro Muraoka, Kyoto University

「百寿者腸内細菌による新規ステロイド代謝経路と新規ステロイド化合物の解明とその免疫系への影響」

“Elucidation of a Novel Steroid Metabolism Pathway and Novel Steroid Compounds by Centenarians’ Gut Microbiota, and Their Impact on the Immune System”

渡部 靖郎 氏（東京大学）

Mr. Yasuo Watanabe, The University of Tokyo

「パイロトーシスを介した炎症を制御する新たな分子の機能解析」

“Functional analysis of a new molecule that regulates pyroptosis-induced inflammation”

生駒 健太 氏（大阪大学）

Mr. Kenta Ikoma, Osaka University

「難治性 B 細胞性急性リンパ性白血病の悪性化に関わる炎症性サイトカインの役割の解明」

“The role of inflammatory cytokines in the malignant transformation of refractory B-cell acute lymphoblastic leukemia”

鈴木 藍彩 氏（東京理科大学）

Ms. Aisa Suzuki, Tokyo University of Science

※「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4日（水）16時40分からポスター発表をいたします。

* The above “Kibou Projects” Scholarship for Doctoral Students in Immunology, Winners’ Poster Discussion will be started from 16:40 on 4th December.

Young Researcher's Forum

若手研究者フォーラム「共に語る研究者キャリアの道」

Young Researcher's Forum, "Let's Talk Together About Carriers of Researchers" Registration Form

12月4日（水） Wednesday, 4th December 11:30 AM - 12:50

場所：Room G (定員：50名程度)

Venue: Room G (Around 50 participants)

概要：

過去二年連続で実施された「若手研究者フォーラム」では、若手研究者が将来への不安や悩みを共有し、現役研究者からアドバイスを受ける機会が提供され、免疫学の未来についての展望や期待についても議論されたが、参加者からのフィードバックにより、若手研究者は率直な意見交換ができるフランクな交流機会を求めていることが明らかになった。そこで今年度はさらにキャリア選択に影響を及ぼす人生のイベント（結婚、出産・育児、介護など）についても議論する場を設けて、若手フォーラムを実施する。本フォーラムにより、免疫学の未来を担う若手研究者が将来の明確なビジョンの下でキャリア選択をするための一助となれば幸いである。

Abstract:

In the past two consecutive years, the 'Young Researchers Forum' has provided young researchers with an opportunity to share their anxieties and concerns about the future with others, receive advice from active researchers, and discuss the prospects and expectations for immunology. Based on feedback from previous participants, it became clear that young researchers seek a candid exchange of opinions and a frank networking opportunity. This year, we will also create a space for discussing life events (such as marriage, childbirth, parenting, and caregiving) that can impact career choices. We hope that this forum will assist young researchers in making career decisions under a clear vision for the future of Immunology Research.

※昼食（お弁当）を無料でご用意します。

※お子様連れでのご参加も歓迎します（昼食はご持参いただくか、お子様用にお弁当を予約してください）。

※会場に空きがあれば当日の飛び込み参加も可能ですが、昼食がご用意できない可能性がありますことご了承ください。

*A complimentary lunch (bento box) will be provided.

*We welcome participants with children (please bring your child's lunch or ask us additional bento boxes for them from a below form).

*Walk-in Participation: If space is available, walk-ins will be accepted on the day of the event, but we may not be able to provide lunch.

サテライトワークショップ Satellite Workshop

12 月 4 日（水） Wednesday, 4th December from 8:30 PM ~

場所：TBD（長崎駅周辺を予定）

Venue: TBD (Planned to be near Nagasaki Station)

定員：40 名程度（要事前予約、会費制（3000 円～ 5000 円程度を予定、学生無料））

Capacity: Around 40 participants (advance registration required; participation fee would be 3,000 to 5000 yen. Free for Students.)

『若手研究者フォーラム「共に語る研究者キャリアの道」』での議論を受け、さらに踏み込んだ議論を行えるようにサテライトのワークショップの実施を 2 日目の学術集会後に予定。スケジュールコンフリクトのためにフォーラムには参加できなかった方も是非サテライトワークショップへの参加をご検討ください。また、お子様連れでの参加も可能です。

Following the discussions held at the Young Researchers' Forum "Discussing Career Paths for Researchers Together," we will host a more in-depth discussion at the satellite workshop on the evening of the second day of the meeting. Even if you are unable to attend the Forum due to schedule conflicts, we encourage you to consider participating in the Satellite Workshop.

Technical Seminar

Technical Seminar

11:40 ~ 12:40, Tuesday, December 3

T01 Technical Seminar 01 Room C: 101B

Chairperson: Hideki Hasegawa (Research Center for Influenza and Respiratory Viruses, National Institute of Infectious Diseases)

T01 Detection of interaction between enteric bacteria and intestinal IgA antibodies

Reiko Shinkura Laboratory of Immunology and Infection Control, Institute for Quantitative Biosciences, The University of Tokyo

Cytek Japan Corporation

11:40 ~ 12:40, Tuesday, December 3

T02 Technical Seminar 02 Room D: 101C

Chairperson: Kazuo Okamoto (Division of Immune Environment Dynamics, Cancer Research Institute, Kanazawa University)

T02 Peripheral immune control of mucosal viral infection

Norifumi Iijima National Institutes of Biomedical Innovation, Health and Nutrition

TOMY DIGITAL BIOLOGY CO., LTD.

11:40 ~ 12:40, Tuesday, December 3

T03 Technical Seminar 03 Room E: 102

T03 Spatial biology in multiple dimensions

Stefan Eulitz Miltenyi Biotec B.V. & Co. KG

Miltenyi Biotec K.K.

11:40 ~ 12:40, Wednesday, December 4

T04 Technical Seminar 04 Room C: 101B

Chairperson: Atsushi Kumanogoh (Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University)

T04 T-Cell Immune System Responsible for Sustained Antitumor Effects

Hiroshi Kagamu Saitama Medical University International Medical Center

Standard BioTools K.K.

11:40 ~ 12:40, Wednesday, December 4

T05 Technical Seminar 05 Room D: 101C

Chairperson: Osamu Takeuchi (Department of Medical Chemistry Graduate School of Medicine, Kyoto University)

T05 A novel imaging flow cytometry for analyzing immunosuppressive mechanisms in the tumor microenvironment

Hiroyoshi Nishikawa Division of Cancer Immunology, Research Institute, National Cancer / Department of Immunology, Nagoya University
Graduate School of Medicine / Division of Cancer Immune Multicellular System Regulation, CCII, Graduate School of Medicine, Kyoto University

Nippon Becton Dickinson Company, Ltd.

11:40 ~ 12:40, Wednesday, December 4

T06 Technical Seminar 06 Room F: 103

T06 CXCR4 Induces Memory Formation and Metabolic Shift in CAR-T Cells for AML Therapy

Ari Itoh-Nakadai Department of Hygiene and Public Health, Nippon Medical School

10x Genomics

11:40 ~ 12:40, Thursday, December 5

T07 Technical Seminar 07 Room C: 101B

T07 Prediction and exploration of functional hematopoietic stem cells

Satoshi Yamazaki The Institute of Medical Science, The University of Tokyo

Thermo Fisher Scientific

11:40 ~ 12:40, Thursday, December 5

T08 Technical Seminar 08 Room D: 101C

Chairperson: Shintaro Tanaka (Leica Microsystems K.K.)

T08-01 Imaging analysis of sensory neurons involved in atopic dermatitis

Takaharu Okada RIKEN Center for Integrative Medical Science, Lab for Tissue Dynamics

T08-02 AI-assisted image analysis software AIVIA for immune microenvironment imaging

Toshiyuki Hatano Leica Microsystems K.K.

Leica Microsystems K.K.

Clinical Seminar

Clinical Seminar

11:40 ~ 12:40, Tuesday, December 3

C01 Clinical Seminar 01 Room A: Convention Hall

Chairperson: Takanori Kanai (Department of Internal Medicine(Gastroenterology and Hepatology), Keio University School of Medicine)

C01 Pathophysiology-based Inflammatory Bowel Disease Treatment Strategies

Yohei Mikami Department of Internal Medicine, Keio University School of Medicine

Takeda Pharmaceutical Company Limited

11:40 ~ 12:40, Tuesday, December 3

C02 Clinical Seminar 02 Room B: 101A

Chairperson: Hiroaki Niiri (Department of Medical Education, Faculty of Medical Sciences, Kyusyu University)

C02 IL-6 inhibition and the pursuit of precision medicine in rheumatoid arthritis

Satoshi Kubo Department of Molecular Targeted Therapies, University of Occupational And Environmental Health

ASAHI KASEI PHARMA CORPORATION

11:40 ~ 12:40, Tuesday, December 3

C03 Clinical Seminar 03 Room F: 103

Chairperson: Hideki Ueno (Department of Immunology, Graduate School of Medicine, Kyoto University)

C03 mRNA Vaccinology: Enabling Pandemic Preparedness and Next-Generation Innovation

David Alvarez Moderna, Inc.

Moderna Japan Co. Ltd.

11:40 ~ 12:40, Tuesday, December 3

C04 Clinical Seminar 04 Room G: 107

Chairperson: Kazuyo Moro (Laboratory for Innate Immune Systems, Graduate School of Medicine, Osaka University)

C04-01 The cytokine network reveals new perspectives on Type2 Inflammation

Yasutaka Motomura Research Institute for Biomedical Sciences, Tokyo University of Science

C04-02 Immunology of Atopic Dermatitis

Tetsuro Kobayashi Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences

Sanofi K.K. / Regeneron Pharmaceuticals Inc.

11:40 ~ 12:40, Wednesday, December 4

C05 Clinical Seminar 05 Room A: Convention Hall

Chairperson: Yoshiya Tanaka (First Department of Internal Medicine, University of Occupational and Environmental Health)

C05 The role of type I interferon signaling in systemic autoimmune diseases in the single-cell era

Keishi Fujio Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo

AstraZeneca K.K.

11:40 ~ 12:40, Wednesday, December 4

C06 Clinical Seminar 06 Room B: 101A

Chairperson: Akira Ando (Shiga University of Medical Science)

C06 Gut microbiota-derived succinate induces enteric nervous system regeneration

Daniel Mucida The Rockefeller University / Howard Hughes Medical Institute

MIYARISAN Pharmaceutical Co., Ltd.

11:40 ~ 12:40, Wednesday, December 4

C07 Clinical Seminar 07 Room E: 102

Chairperson: Shinichiro Motohashi (Department of Medical Immunology, Graduate School of Medicine, Chiba University)

C07 Super-resolution imaging elucidates the molecular mechanisms of cancer immunotherapies.- Signalosome network of immune checkpoint receptors and chimeric antigen receptors -

Tadashi Yokosuka Department of Immunology, Tokyo Medical University

MSD K.K.

11:40 ~ 12:40, Thursday, December 5

C08 Clinical Seminar 08 Room B: 101A

Chairperson: Wataru Ise (Center for Infectious Disease Education and Research, Osaka University)

C08 Recognition of host through immune receptors

Sho Yamasaki Research Institute for Microbial Diseases, Osaka University / Immunology Frontier Research Center, Osaka University / Center for Infectious Disease Education and Research, Osaka University / Center for Advanced Modalities and DDS, Osaka University

Otsuka Pharmaceutical Co., Ltd.

Afternoon Seminar

Afternoon Seminar

12:50 ~ 13:50, Tuesday, December 3

A01 Afternoon Seminar 01 Room A: Convention Hall

Outstanding Young Immunology Researcher Award

Chairpersons: Tomohiro Kurosaki (President of the JSI/ IFRcC, Osaka University / RIKEN IMS)

Hiroshi Ohno (President of the 53rd Annual Meeting of the JSI / RIKEN IMS)

A01-01 Dietary Soy Promotes Mucosal IgA Response via Tfh Cell Induction in Peyer's Patches

Daisuke Takahashi Faculty of Pharmacy, Keio University / Graduate School of Pharmaceutical Sciences, Keio University Faculty of Pharmacy

A01-02 Role of MHC class I in the development and progression of lung cancer with Kras mutation

Tsutomu Tanaka Department of immunology, Hokkaido University / The Institute for Vaccine Research and Development (IVReD), Hokkaido University

A01-03 Comprehensive analysis of immune cells in sub-epithelial dome region

Yutaka Nakamura Wakayama Medical University

Nippon Becton Dickinson Company, Ltd.

12:50 ~ 13:50, Wednesday, December 4

A02 Afternoon Seminar 02 Room A: Convention Hall

Outstanding Young Women Researcher Award

Chairpersons: Tomohiro Kurosaki (President of the JSI/ IFRcC, Osaka University / RIKEN IMS)

Hiroshi Ohno (President of the 53rd Annual Meeting of the JSI / RIKEN IMS)

A02 Role of Inflammatory Cytokine LIGHT in Airway Remodeling and Vasculitis in Asthma

Haruka Miki Department of Rheumatology, Institute of Medicine, University of Tsukuba / La Jolla Institute for Immunology

TOMY DIGITAL BIOLOGY CO., LTD.

Evening Seminar

Evening Seminar

18:30 ~ 19:30, Tuesday, December 3

E01 Evening Seminar 01 Room B: 101A

Chairperson: Takanori Kanai (Keio University School of Medicine, Department of Internal Medicine
(Gastroenterology and Hepatology))

E01-01 The similarity of gut disease and skin disease: Th17 related disease

Tomohisa Sujino Keio University School of Medicine, Center for Diagnostic and Therapeutic Endoscopy

E01-02 Advancing Psoriatic Syndrome Management: Integrating Biologic Switch Strategies and AI-Enhanced Care

Takeya Adachi Department of Dermatology, Keio University School of Medicine / Keio Allergy Center / Department of Medical Innovation and
Translational Medical Science, Kyoto Prefectural University of Medicine

Janssen Pharmaceutical K.K.

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(2025年度<2024年10月1日～2025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関し、クレジットカード手数料は無料(全額学会負担)となります。

新規入会をご希望の方は、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. 2025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：黒崎知博 (2024年12月31日迄)
竹田 潔 (2025年1月1日から2026年12月31日迄)
理事：岡田峰陽*、栢島健治、河本 宏、熊ノ郷 淳、渋谷 彰、高柳 広、竹田 潔、三宅幸子、山崎 晶*
*理事長推薦理事 (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 (2026年12月31日迄)
石井 優、反町典子、長谷耕二、堀 昌平、三宅健介、安友康二、山崎 晶 (2025年1月1日から2028年12月31日迄)
監事：小安重夫、岩倉洋一郎 (2024年12月31日迄)
黒崎知博、吉村昭彦 (2025年1月1日から2026年12月31日迄)

5. 日本免疫学会へのご寄附のお願い

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、認定特定非営利活動法人として本認定されましたが、本認定期間におきましても、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。

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、より広く免疫学の魅力と重要性をアピールする活動を広げ、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、会員数の減少や近年の物価高騰等により、実質的な学会資産の減少が続いており、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、健全な学会運営をとりまく環境は依然厳しい状況です。

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、本学会の財政を安定させるためにも、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、クレジットカード決済手数料は無料(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係る寄附金は、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。

6. 特定非営利活動法人 日本免疫学会 事務局

〒101-0024 東京都千代田区和泉町 1-4-2-2F

電話：03 (5809) 2019 FAX: 03 (5809) 2089 e-mail: info@meneki.or.jp

(文責：事務局長 織田純平)

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	WS28-22-P	Hidano, Shinya	○WS25-05-O/P	Honda, Hiroe	WS26-26-O/P	WS22-05-P
	WS29-23-P	Hide, Michihiro	WS20-20-P	Honda, Tomohiro	WS26-06-O/P	WS29-01-O/P
Hasegawa, Hideki	WS15-07-P	Hikichi, Kazuma	WS22-21-P	Honjo, Tasuku	WS10-15-P	WS29-10-P
Hasegawa, Ichita	WS13-13-O/P	Hikida, Masaki	WS25-17-P		WS17-14-P	Ikeda, Kei
	WS22-15-O/P		WS25-18-P		WS22-03-P	Ikeda, Keigo
Hasegawa, Takashi	WS29-23-P	Hikosaka-Kuniishi, Mari			WS22-08-O/P	Ikeda, Ryo
Hasegawa, Tatsuya			WS23-13-P	Horaguchi, Shun	WS11-02-O/P	Ikeda, Satoshi
	○WS01-01-O/P		WS23-16-P	Hori, Shohei	WS10-07-O/P	Ikeda, Shigaku
	WS12-07-P		○WS28-24-P		WS19-02-O/P	Ikeda, Yumi
Hashiguchi, Masaaki		Hioki, Kou	○WS29-15-P		WS19-06-O/P	Ikeda-Ohtsubo, Wakako
	WS24-03-P	Hirahara, Kiyoshi	○S14-05		WS22-01-O/P	
Hashiguchi, Takao	WS08-07-O/P		WS05-18-O/P	Hori, Tetsuji	WS01-09-P	Ikegami, Ippei
Hashikawa, Yuko	WS04-12-P		WS08-17-P	Horii, Yumi	WS14-05-P	○WS23-17-P
Hashimoto, Ari	WS28-10-O/P	Hirai, Go	WS16-12-P	Horio, Eri	WS28-18-O/P	Ikegami-Tanaka, Hitomi
Hashimoto, Ayaka	○WS21-02-P	Hirai, Toshiro	○WS17-15-P		○WS28-22-P	
Hashimoto, Kahoko		Hiraide, Kyoga	WS09-06-O/P		WS29-23-P	Ikeshita, Einosuke
	○WS13-23-P	Hirakawa, Mayumi	○WS13-09-O/P	Horiuchi, Yutaka	○WS29-20-P	Ikuta, Koichi
	WS13-23-P		WS24-01-P	Hoshino, Tomoaki	○WS04-01-P	
	WS24-17-P	Hiramatsu, Hiroaki	WS10-14-O/P	Hoshino, Tyuji	WS13-19-P	IM, Sin-Hyeog
Hashimoto, Mayuko	WS01-10-P	Hirankarn, Nattiya	WS06-15-O/P	Hoshino, Yasunobu	WS10-04-O/P	○S16-03
	○WS01-16-P		WS20-18-P	Hoshino, Yuki	WS24-16-P	Imabayashi, Keisuke
Hashimoto, Motomu	WS06-01-O/P	Hirano, Hiroyuki	WS20-21-P	Hosokawa, Hiroyuki	WS16-03-P	○WS17-08-O/P
	WS06-02-O/P	Hirano, Setoka	WS25-19-P	Hosokawa, Shunya	WS28-06-P	WS17-10-P
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Hashimoto, Ryota	WS05-27-P	Hirao, Kengo	WS15-10-O/P		WS18-14-O/P	Imafuku, Tadashi
Hashimoto, Ryuji	WS02-06-O/P	Hirao, Takuya	WS02-07-P	Hosomi, kosuke	WS26-08-P	○WS11-12-O/P
Hashimoto, Shigeru	WS20-19-P	Hirao, Yui	○WS10-01-P	Hosono, Yuki	WS16-20-P	Imai, Kohsuke
	WS28-10-O/P	Hiraoka, Susumu	○WS27-10-P	Hsu, Li-Wen	WS11-09-P	WS09-09-P
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	WS24-13-P	Hirashima, Hinata	WS07-06-P	Hu, Ziying	WS17-02-O/P	Imai, Shinsuke
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	○WS18-15-P		WS27-10-P	Hui, Yuan	WS19-14-P	○WS24-11-O/P
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	WS24-15-O/P		WS18-20-O/P	Hwang, In Young	WS20-06-P	Imano, Natsumi
Hatakeyama, Shiori		Hiromura, Keiju	WS24-11-O/P	Hyodo, Susumu	WS29-29-P	WS23-08-P
	○WS25-18-P	Hirose, Kenzo	WS12-09-O/P			WS03-08-O/P
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	WS26-18-O/P	Hirose, Yuta	WS15-18-P			○WS28-16-P
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Hatano, Taku	WS10-04-O/P		WS25-13-P			WS05-19-O/P
Hatano, Toshiyuki	○T08-02	Hirota, Keiji	WS01-20-P	Ibraheem, Yarob	○WS16-18-P	Ino, Hajime
Hatazawa, Sara	WS29-20-P		WS06-03-O/P	Ichihara, Yoshinori	WS20-17-P	WS14-05-P
Hattori, Ann	WS02-06-O/P		WS06-04-O/P	Ichikawa, Masataka	WS20-15-O/P	Inoue, Akiko
Hattori, Nobutaka	WS10-04-O/P		WS08-01-O/P	Ichikawa, Tomoko	WS14-05-P	Inoue, Chisa
Hayakawa, Kunihiro	WS26-09-P		WS20-01-O/P	Ichimiya, Shingo	WS23-14-P	Inoue, Makoto
Hayakawa, Yoku	WS01-06-O/P				WS23-17-P	Inoue, Mariko
Hayakawa, Yoshihiro	WS02-07-P	Hisada, Ryo	WS26-10-P	Ide, Masamichi	WS29-05-P	Inoue, Shin-Ichi
	WS12-04-P	Hisatome, Ichiro	WS28-20-P	Ide, Natsuki	○WS12-13-P	Inoue, Shinya
	WS12-05-O/P	Hishiki, Tomoro	WS29-12-P	Igarashi, Kazuhiko	WS17-04-O/P	Inoue, Tadahiko
Hayashi, Fuzuki	WS05-15-P	Hishiya, Takahisa	WS08-17-P		WS17-19-P	Inoue, Takeshi
	WS05-29-P	Hitomi, Kiyotaka	WS07-10-O/P		WS25-14-P	Inui, Hideaki
Hayashi, Rinako	○WS25-01-O/P	Hitomi, Yuki	○WS20-12-O/P	Igarashi, Yuichi	○WS07-11-O/P	Inui, Masanori
Hayashi, Tomoya	WS04-14-O/P	Hiwa, Ryosuke	WS04-12-P	Iguchi, Takahiro	○WS16-06-O/P	
	○WS13-26-O/P		WS10-03-O/P	Iguchi, Tomohiro	WS13-27-P	Inuki, Shinsuke
	WS28-17-O/P	Hiyoshi, Hirotaka	○WS18-05-P	Iho, Sumiko	WS04-13-P	Iri, Osamu
Hayashizaki, Koji	○WS12-18-P	Ho, Ping-Chih	WS02-09-O/P	Iida, Noriho	WS01-06-O/P	
Hayee, Abdul	○WS29-08-O/P		WS22-04-P	Iida, Yuichi	○WS29-27-P	Irie, Atsushi
He, Ka	WS12-04-P	Ho, Tuyen Thuy Bich		Iijima, Ayami	○WS12-07-P	
	○WS12-05-O/P		○WS03-03-P	Iijima, Norifumi	○T02	Irie, Emi
Hello, Dorine	WS29-22-P		WS03-08-O/P	Iizuka, Mana	WS25-15-P	Irie, Nobuko
Helmizar, Roland	WS16-10-P	Hohjoh, Hirohiko	WS20-05-O/P	Ikawa, Tomokatsu	WS13-09-O/P	Isao, Ito
	WS20-14-P	Hojo, Nozomi	WS17-05-O/P		WS24-01-P	Ise, Marii
Heyman, Birgitta	WS17-02-O/P	Hojyo, Shintaro	WS20-19-P		WS25-03-O/P	○WS13-15-P
Hida, Kyoko	WS11-06-P		WS23-03-O/P		WS29-02-P	WS20-22-P
Hidaka, Reiko	○WS13-08-O/P		○WS28-10-O/P		WS29-04-O/P	WS26-15-P
	WS25-01-O/P	Honda, Haruka	WS25-17-P	Ikeda, Eriko	○WS14-15-P	WS26-24-P
			WS25-18-P	Ikeda, Hiroaki	WS03-06-O/P	WS17-05-O/P
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Ishibashi, Tomohiko	WS20-11-P WS28-16-P	Isshiki, Runa	○WS25-17-P	WS18-12-P WS18-13-P	Kadota, Kyuichi	WS03-07-P
Ishida, Akane	WS14-09-O/P	Itabashi, Ayumi	○WS13-02-P	WS11-07-O/P	Kafke, Anna	WS10-11-O/P
Ishida, Hideharu	WS16-20-P	Itamiya, Takahiro	WS06-10-P	Iwai, Yoshiko	Kagamu, Hiroshi	○T04
Ishida, Megumi	WS14-08-O/P		WS26-01-O/P WS26-25-O/P		Kageyama, Hakuto	WS09-11-P
Ishida, Takashi	WS10-14-O/P	Itaya, Riho	WS28-24-P	Iwakura, Yoichiro	Kageyama, Takahiro	WS05-07-O/P
Ishida, Yuko	WS28-01-O/P WS28-03-P WS28-08-P	Ito, Aya	WS23-13-P WS23-16-P	Iwama, Atsushi	Kageyama, Tomoko	WS12-08-O/P WS12-15-O/P
	○WS28-11-P	Ito, Ayaka	○WS14-07-P WS26-11-P	Iwamatsu, Sasa	Kagoshima, Yomei	WS18-21-P WS23-11-P WS28-02-O/P
Ishido, Satoshi	WS19-11-P	Ito, Ayumi	WS09-17-P	Iwamoto, Taro		○WS28-04-P WS28-05-P
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Ishigaki, Kazuyoshi	○OT12 WS06-10-P WS06-14-P WS20-12-O/P WS26-04-O/P WS26-18-O/P	Ito, Junya	○WS21-03-O/P WS21-04-O/P	Iwanuma, Aoba	Kagoya, Yuki	○OT03 WS29-28-O/P
	○WS10-12-P	Ito, Kaori	○WS01-11-P		Kaibori, Yuichiro	WS05-16-P
Ishigaki, Sho	WS08-05-P	Ito, Kousei	WS02-07-P WS13-19-P WS24-08-O/P		Kaieda, Yuta	WS12-12-P
ishigame, Harumichi	WS28-03-P WS05-04-P WS05-13-P	Ito, Masataka	○OT10	Iwasaki, Kenta	Kaisho, Tsuneyasu	WS01-10-P WS04-06-P WS07-04-O/P WS16-16-O/P WS24-13-P
Ishigami, Akiko	WS28-03-P	Ito, Minako	○S10-01 WS10-05-P WS10-06-P	Iwasawa, Takumi		WS05-03-P WS09-21-P
Ishigami, Yohei	WS05-04-P WS05-13-P		WS16-19-P WS25-15-P WS27-13-P	Iwase, Yoichiro	Kaitani, Ayako	○WS21-08-O/P WS14-05-P
Ishiguro, Jun	WS26-06-O/P	Ito, Mitsuki	○WS09-18-P	Iwata, Arifumi	Kaito, Yuki	○WS15-13-P
Ishii, Ken	○S09-02 WS08-03-O/P WS09-13-P	Ito, Mutsumi	WS08-12-P WS22-25-P	Iwata, Chieri	Kaji, Emi	WS15-14-P WS18-06-P WS18-11-P WS18-12-P WS18-13-P
Ishii, Ken J	WS04-14-O/P WS13-26-O/P WS28-17-O/P	Ito, Naoto	○WS24-01-P WS24-06-P WS24-07-P	Iyoda, Masayuki		WS07-04-O/P ○WS24-13-P
	WS29-15-P	Ito, Nobutoshi	WS26-03-O/P	Izawa, Kumi	Kakihara, Mako	WS17-15-P
Ishii, Ken J.	WS29-15-P	Ito, Rinka	○WS17-07-O/P	Izuhara, Kenji	Kakita, Akiyoshi	WS20-03-O/P
Ishii, Kenta	○WS21-09-P	Ito, Ryoji	WS05-30-P WS24-16-P WS25-13-P	Izumi, Mayuko	Kakugawa, Kiyokazu	○WS03-14-P WS22-01-O/P WS14-01-O/P
Ishii, Masaru	WS06-07-P WS07-13-P WS08-19-P WS13-04-P WS14-04-O/P WS14-11-P	Ito, Takashi	WS05-07-O/P WS20-13-P	Jahan, M Ishrat		○WS16-03-P
	WS09-06-O/P WS10-09-P WS19-04-O/P WS22-02-P WS23-13-P WS23-16-P WS28-24-P	Ito, Takayoshi	○WS09-15-P	Jain, Mohit	Kakuta, Hiroki	○WS16-07-O/P
Ishii, Naoto	WS26-17-O/P	Ito, Tomoaki	WS03-10-O/P	Jain, Shilpi	Kama, Yuichi	○WS16-07-O/P
	WS26-17-O/P	Ito, Tomohiro	WS13-21-P	Jarilla-Nagataki, Blanca R	Kamatani, Tomoki	○WS27-05-O/P
Ishii, Tomonori	WS26-17-O/P	Ito, Toshihiro	WS07-02-P WS08-02-O/P WS13-29-P WS18-03-P WS22-06-P	Jia, Guang shuai	Kametani, Yoshie	WS25-13-P WS24-16-P
Ishikawa, Dai	○S16-04		WS05-05-P	Jia, Shangru	Kametani, Yosie	○WS05-25-P
Ishikawa, Eri	WS16-20-P WS17-10-P	Ito, Tsukasa	○WS01-07-O/P	Jian, Jiun-Yu	Kamijio, Seiji	○WS11-14-O/P
Ishikawa, Hiroki	○WS12-17-P	Ito, Yoshihiro	WS09-08-O/P	Jiang, Chenxu	Kamijo, Yuki	WS06-16-P WS24-06-P
Ishikawa, Saki	○WS15-02-P	Ito, Yusuke	WS29-28-O/P	Jiang, Jing Jing	Kamioka, Yuji	WS23-18-P
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Ishikawa, Yuki	○WS26-17-O/P	Itoh, Yoshito	WS01-18-P	Jin, Denan		WS20-02-O/P WS23-11-P WS28-02-O/P WS28-04-P WS28-05-P
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Ishizuka, Shigenari	○WS19-09-P	Iwahashi, Yuya	○WS28-08-P	Ka, Yuyo		○WS09-12-P
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	○WS13-03-O/P	Kato, Miyuna	○WS04-05-P	Kawazoe, Mio	WS10-05-P		WS18-06-P
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Karino, Kohei	WS26-10-P	Kawahara, Shoya	○WS17-20-P	Kim, Min Woo	○S10-02		○WS22-08-O/P
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	○WS16-20-P	Kawahata, Kimito	○OT15	Kimura, Akihiko	WS28-01-O/P		WS09-21-P
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Kasamatsu, Jun	○WS21-01-O/P	Kawai, Shingo	WS01-21-P	Kimura, Atsuko	○WS20-07-P		WS27-09-P
Kase, Tetsuo	WS08-09-P	Kawai, Taro	○S09-03		WS26-23-P	Kitazawa, Yusuke	WS13-16-O/P
Kashiwada, Takeru	WS11-07-O/P		WS24-09-O/P	Kimura, Hidenori	WS15-08-O/P	Kitkumthorn, Nakin	
	WS11-08-P		WS28-14-P	Kimura, Kazumi	WS16-18-P		WS20-18-P
Kashiwakura, Junichi		Kawai, Yui	WS05-05-P	Kimura, Meiko	WS09-21-P	Kitoh, Akihiko	WS27-01-O/P
	○WS05-01-P	Kawajiri, Akihisa	WS09-06-O/P	Kimura, Miki	WS24-15-O/P	Kiuchi, Masahiro	○WS08-17-P
Kashiwakura, Jun-ichi			WS10-09-P	Kimura, Motoko	WS08-17-P	Kiyono, Hiroshi	WS01-15-P
	WS16-15-P		WS19-04-O/P		WS13-13-O/P		WS09-03-O/P
	WS17-20-P		WS22-02-P		WS22-15-O/P		WS09-16-P
Kasuga, Yusuke	WS22-19-P	Kawakami, Atsushi	WS20-10-O/P	Kimura, Motoko Y.	○OT14	Ko, Wing Hung	WS28-13-P
	○WS24-15-O/P	Kawakami, Eiryo	WS09-08-O/P	Kimura, Reiko	WS27-05-O/P	Koabayashi, Norimoto	
Kasuya, Yuzo	WS14-15-P	Kawakami, Ryoji	WS17-05-O/P	Kimura, Shunsuke	○WS01-21-P		WS18-08-P
Katagiri, Mayuka	WS22-25-P		○WS19-03-O/P		WS09-05-O/P	Kobayashi, Azusa	WS26-11-P
	WS24-01-P		WS19-12-P		WS09-07-O/P	Kobayashi, Eiji	WS16-11-P
Katagiri, Tatsuo	WS05-02-P	Kawamoto, Hiroshi	WS13-08-O/P	Kimura, Tatsuji	WS12-05-O/P		WS29-08-O/P
	WS14-06-P		WS17-12-P	Kimura, Uki	○WS18-10-O/P	Kobayashi, Koichi	WS24-15-O/P
Katahira, Yasuhiro	WS28-18-O/P		WS25-01-O/P	Kimura, Yayoi	WS17-04-O/P	Kobayashi, Koichi S	WS04-08-P
	WS28-22-P	Kawamura, Yuki I.	WS13-01-O/P	Kinashi, Tatsuo	WS23-18-P		WS22-19-P
	WS29-23-P	Kawano, Yohei	○WS13-05-P	Kinashi, Yusuke	WS01-03-O/P	Kobayashi, Kyousuke	
Katakai, Tomoya	WS13-06-P		WS23-05-O/P		○WS09-05-O/P		WS01-15-P
	WS17-13-P	Kawano, Yoshinaga	○S11-02	Kinjo, Yuki	WS12-18-P	Kobayashi, Maiko	WS25-16-P
	WS22-27-O/P	Kawaoka, Yoshihiro	WS08-12-P	Kinoshita, Hiroki	WS29-18-P	Kobayashi, Maki	WS17-14-P
Katano, Ikumi	WS03-13-O/P	Kawasaki, Hiroshi	○WS09-08-O/P	Kinoshita, Manabu	WS04-09-O/P	Kobayashi, Masayoshi	
Katano, Nagi	WS25-13-P		WS09-12-P		WS07-03-P		WS22-17-P
Kataoka, Mirei	○WS29-28-O/P	Kawasaki, Takumi	WS24-09-O/P	Kinoshita, Masato	WS24-11-O/P	Kobayashi, Michiko	WS26-11-P
Kataoka, Yuko	WS26-09-P	Kawasaki, Yuri	WS24-08-O/P	Kishi, Hiroyuki	WS08-10-O/P	Kobayashi, Midori	WS29-12-P
Kato, Azusa	WS04-09-O/P	Kawase, Wataru	WS24-10-O/P		WS16-11-P	Kobayashi, Mitsuko	WS14-07-P
Kato, Daisuke	WS03-06-O/P	Kawashima, Hina	○WS05-15-P		WS29-08-O/P	Kobayashi, Ryoya	○WS13-19-P
Kato, Kazunori	WS03-10-O/P		WS05-29-P	Kishi, Mizuki	○WS26-29-P	Kobayashi, Soichiro	WS28-24-P

Kobayashi, Takashi	WS18-21-P WS20-02-O/P WS23-11-P WS28-02-O/P WS28-04-P WS28-05-P WS28-26-P	Kondo, Kenta Kondo, Kyoko Kondo, Motonari	○WS02-12-O/P WS08-09-P WS13-12-P WS13-15-P WS20-22-P WS26-15-P WS26-24-P WS23-18-P	Kumagai, Keigo Kumagai, Ryosuke Kumamoto, Mayu Kumano, Keiki Kumanogoh, Atsushi	WS08-03-O/P ○WS02-15-P WS08-09-P WS04-10-P WS13-28-P WS28-17-O/P WS03-03-P ○WS09-21-P WS02-12-O/P WS13-17-P	Kwon, Hyungjin	WS03-15-P
Kobayashi, Tetsu						L	
Kobayashi, Tetsuro	○WS12-09-O/P WS15-20-P ○C04-02	Kondo, Naoyuki Kondo, Ryohei Kondo, Taisuke Kondo, Toshikazu	○WS12-02-P ○WS29-14-P WS04-06-P WS28-01-O/P	Kume, Kyo Kume, Yasuharu Kumode, Mina Kuniishi, Mari Hikosaka	WS28-03-P ○WS09-21-P WS02-12-O/P WS13-17-P	Lai, Chia-Yun Lan, Xin Larion, Mioara Lavelle, Ed Le, Thien-Log Le, Toan Van	WS11-09-P WS17-09-P WS29-11-O/P ○S09-01 WS11-11-P WS29-26-O/P
Kobayashi, Tetsuya J	○S12-04		WS28-03-P WS28-08-P WS28-11-P	Kuninaka, Yumi	WS28-01-O/P ○WS28-03-P WS28-08-P WS28-11-P	Leangpanich, Supasuta	○WS09-19-P WS27-14-P
Kobayashi, Toshiyuki	WS13-25-P		WS06-12-P WS06-17-P WS26-07-P	Kunisawa, Jun	WS09-02-O/P WS18-14-O/P WS14-08-O/P	Lee, Chenfung Lee, Hui Ling Lee, Ji-Eun Lee, So-Young Lee, Wen Shi Lee, Yoonha	WS20-06-P WS27-08-P WS05-23-P WS06-05-O/P ○WS01-20-P WS06-04-O/P WS20-01-O/P
Kobayashi, Tsubasa	○WS22-13-O/P	Kondo, Yuya	WS01-20-P WS06-03-O/P WS06-04-O/P WS20-01-O/P	Kuno, Akihiro Kuno, Yoshihiro Kunugi, Shinobu	WS12-17-P WS27-06-O/P ○WS02-01-P	Lee, Yung Seng	WS20-06-P
Kobayashi, Yohei	○WS22-14-P		WS24-09-O/P WS18-07-P WS05-17-P	Kurachi, Junko Kurachi, Makoto	WS02-03-O/P WS02-03-O/P WS02-11-P	Leelahavanichkul, Asada	WS04-19-P WS04-20-P
Kobayashi, Yoshiaki	○WS05-24-O/P WS08-03-O/P	Konishi, Riko Konno, Toshihiro Konno, Yuzuki Kono, Michihiro Kono, Michihito Koseki, Haruhiko	WS20-01-O/P WS24-09-O/P WS18-07-P WS05-17-P WS26-04-O/P WS26-10-P WS06-15-O/P	Kurasawa, Kazuhiro Kurasawa, Takeshi	WS06-08-P ○WS17-19-P WS25-14-P	Leng, Qi bin Leong, Pui-Ying Leung, Ting-Fan	WS19-14-P WS01-12-P WS05-26-P
Kobiyama, Koji	○OT09		WS22-01-O/P WS22-26-P WS29-12-P	Kurashima, Yosuke Kurata, Takashi Kuratan, Ayumi	○WS09-03-O/P WS18-08-P ○WS22-12-P	Li, Aixuan Li, Huiyang Li, Jiaxin Li, Jing	○WS28-13-P ○WS05-06-P ○WS11-13-P WS09-06-O/P WS10-09-P
Kobiyama, Kouji	WS04-14-O/P WS13-26-O/P WS28-17-O/P WS29-15-P ○WS03-09-P	Koseki, Ryota	○WS15-10-O/P WS22-22-P	Kureha, Taku Kuribayashi, Futoshi	○WS16-04-P WS14-02-P		○WS19-04-O/P WS22-02-P
Kobori, Hajime	WS09-14-P	Kosho, Tomoki	WS18-08-P	Kuriki, Yuhi	○WS22-21-P		WS29-05-P
Kochi, Yuta	WS13-10-P	Kotaki, Ryutaro	WS08-04-P WS08-07-O/P	Kurniawati, Wahyuni	WS27-12-P	Li, Lan Yi	WS29-15-P
Koda, Yuzo	WS20-10-O/P		○S02-03	Kuroda, Etsushi	WS08-11-P WS28-15-P WS28-17-O/P	Li, Ling Li, Wen Li, Xiao-Kang Li, Yaxuan	○WS16-05-P WS27-07-O/P WS17-02-O/P WS25-10-P
Kodama, Toshio	WS26-12-P	Kotani, Ai	WS20-11-P WS28-16-P	Kuroda, Shoko	WS11-07-O/P WS11-08-P WS24-03-P	Li, Yifan	○WS04-12-P WS18-20-O/P
Koga, Rinna	WS18-05-P WS23-09-P ○WS26-27-P	Kotani, Takenori	WS11-11-P WS02-03-O/P ○WS11-02-O/P	Kurokawa, Hiromu Kurokawa, Ken Kurokawa, Rina Kuroki, Kimiko	WS15-17-P WS01-06-O/P WS01-02-O/P WS15-10-O/P WS19-10-P	Li, Yupeng Liang, Juan	WS25-19-P WS20-09-P ○WS26-02-P WS26-05-P WS26-28-P
Koga, Satoshi	○WS01-08-O/P WS09-14-P	Kotani, Yui	○WS17-13-P WS20-11-P WS28-16-P	Kurosaki, Naoko	WS22-21-P WS22-22-P WS13-23-P WS24-17-P	Liao, Ching-Wei Lieb, David J. Lim, Youkyung	WS14-08-O/P WS01-01-O/P WS29-15-P
Koga, Tomoaki	WS12-17-P	Kou, Weng Si	WS11-11-P	Kurosaki, Tomohiro	WS17-05-O/P	Limcharoen, Benchaphorn	WS06-15-O/P
Koga, Tomohiro	○WS28-26-P	Kou, Miki	WS02-03-O/P	Kurosu, Masaki	○WS16-13-P		○WS18-18-P
Kogue, Yurie	WS22-10-O/P	Koura, Miki	○WS11-02-O/P	Kurotaki, Daisuke	WS29-09-P WS24-02-O/P WS24-10-O/P	Lin, Qirui Lin, Yinzhi Lin, Youwei	WS04-03-P WS20-07-P WS26-23-P
Kohda, Chikara	WS22-01-O/P	Kouura, Waki	WS08-06-P WS15-03-O/P	Kusanagi, Akane	WS28-07-P		○WS27-02-O/P
Kohwi-Shigematsu, Terumi	WS07-05-O/P	Kouyaki, Takahisa	○WS04-17-O/P	Kusaoi, Makio	WS26-08-P	Ling, Hua	WS20-06-P
Koike, Eri	WS01-15-P	Koyama, Ryuki	WS12-14-P	Kusumoto, Yutaka	○WS01-10-P	Ling, Rui	○WS06-06-O/P
Koike, Satoshi	○WS17-05-O/P	Koyasu, Shigeo	WS23-08-P	Kuwabara, Taku	WS01-16-P	Liu, Jing Pei	WS11-05-O/P
Koike, Takuya	WS22-10-O/P	Kozai, Mina	WS17-16-P		WS13-12-P WS13-15-P WS20-22-P WS26-15-P ○WS26-24-P	Liu, Jun Liu, Kaiwen Liu, Lipin Liu, Shengyi	WS27-02-O/P WS04-06-P WS17-09-P ○WS10-14-O/P
Koinuma, Daizo	WS01-07-O/P	Kozuma, Yukinori	WS02-16-O/P WS29-24-P WS09-04-O/P	Kuwahara, Makoto	WS10-02-O/P	Liu, Shih Jen	WS11-05-O/P
Koizumi-Kitajima, Michiko	○WS02-14-P	Krausgruber, Thomas	WS20-01-O/P WS22-26-P WS29-12-P	Kuzuya, Kentaro	WS25-08-O/P	Liu, Tianyi Liu, Yu-Chen	WS29-05-P ○WS08-14-P
Kojima, Hidefumi	WS08-17-P		WS24-04-O/P				
Kokubo, Kota	○WS28-25-P		○WS17-13-P				
Komachi, Takuya	WS06-06-O/P		WS20-11-P				
Komagamine, Masatsugu	WS11-02-O/P		WS28-16-P				
Komahashi, Mitsuru	○S07-04		WS11-11-P				
Komatsu, Noriko	WS06-06-O/P		WS02-03-O/P				
Komatsu, Shugo	WS29-12-P		○WS11-02-O/P				
Komatsu, Taro	WS29-21-P		WS08-06-P				
Kometani, Kohei	○WS08-08-O/P		WS15-03-O/P				
Komiyama, Seiga	WS01-03-O/P		WS04-17-O/P				
	○WS16-16-O/P		WS12-14-P				
Komori, Satomi	WS03-13-O/P		WS23-02-O/P				
	○WS24-04-O/P		○C02				
Komori, Tadasuke	WS28-11-P		WS28-25-P				
Komura, Yasuhiro	WS05-04-P		WS20-19-P				
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Kondo, Airi	WS06-12-P		WS24-10-O/P				
Kondo, Hiromu	WS03-06-O/P		WS05-19-O/P				
Kondo, Hiroyuki	WS24-02-O/P		WS26-10-P				
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Liu, Yulu	○WS26-11-P	Masuno, Kazuhiko	WS03-09-P	WS29-09-P	Mitsui-Sekinaka, Kanako		
Inoue, Hiromasa	WS12-10-P	Masuo, Yuki	○WS06-01-O/P	Matsushima, Miyoko	WS05-15-P	WS24-08-O/P	
Lo, Pei-Chi	○WS28-09-O/P		WS06-02-O/P		WS05-29-P	Mitsui, Yuichi	○S13-04
Lo, Wan-Lin	WS23-01-O/P		WS16-17-O/P	Matsushima, Ryohei	WS16-14-P	Mitsuyama, Yumi	WS25-07-O/P
	○WS23-12-P		WS20-13-P		○WS29-06-O/P	Miura, Kento	WS06-16-P
Loh, Jacelyn Mei San			WS21-05-O/P	Matsuura, Ryuma	○WS22-11-P	Miura, Ryosuke	WS24-01-P
	○WS18-16-O/P	Masuoka, Hiroaki	WS01-02-O/P	Matsuura, Tomoka	WS08-09-P	Miyabe, Yoshishige	WS11-07-O/P
Louis, Fiona	WS09-11-P		WS01-19-P	Matsuyama, Ayako	WS09-04-O/P		WS11-08-P
Lu, Dongyun	○WS08-07-O/P	Masuta, Yuji	WS08-09-P		WS09-12-P	Miyaji, Kazuki	WS08-12-P
Lu, Tian	WS11-01-O/P		WS15-08-O/P	Matsuyama, Hiromi		Miyajima, Atsushi	WS28-11-P
Luan, Yingying	WS17-02-O/P	Masutani, Yurie	WS05-25-P		○WS12-10-P	Miyakawa, Satomi	WS28-18-O/P
Lysenko, Artem	WS11-03-O/P	Mataki, Momo	WS29-20-P	Matsuyama, Nobuhiro			WS28-22-P
	WS11-13-P	Mathews, Ian	WS03-14-P		WS18-10-O/P		WS29-23-P
	WS11-15-P	Matozaki, Takashi	WS03-13-O/P	Matsuyama, Shimpei		Miyake, Kensuke	WS04-06-P
Lyu, Jiahui	○WS09-10-P		WS24-04-O/P		WS23-13-P		WS04-10-P
			WS24-11-O/P		○WS23-16-P		WS05-28-P
		Matsuda, Kenshiro	WS10-09-P	Matsuyama, Takahiro			WS09-03-O/P
			WS12-13-P		WS12-10-P		WS21-03-O/P
			○WS21-06-O/P	Matsuzaka, Sunao	○WS14-10-O/P		○WS21-04-O/P
Ma, Shuhe	WS16-17-O/P	Matsuda, Masaya	○WS05-14-P	Matsuzaka, Yu	WS14-10-O/P		WS22-14-P
	WS20-13-P		WS05-16-P	Matsuzaki, Goro	WS07-08-O/P		WS26-06-O/P
	WS21-05-O/P	Matsuda, Rina	WS22-07-P		WS18-07-P		WS26-21-P
Mabuchi, Tomotaka	WS24-16-P	Matsuda, Satoshi	WS02-05-P	Matsuzaki, Keisaku	WS18-06-P	Miyake, Sachiko	○S06-05
	WS25-13-P		WS17-13-P		WS18-12-P		WS01-02-O/P
Macalinalao, Maria Lourdes		Matsuda, Shuichi	WS06-02-O/P	Matsuzaki, Kesisaku	WS15-14-P		WS05-28-P
	WS16-18-P	Matsuda, Tadashi	WS05-01-P	Matsuzaki, Yumi	WS05-21-P		WS06-11-P
Machida, Kentaro	WS12-10-P		WS16-15-P	Matsuzawa, Kazuhiko			WS10-04-O/P
Machita, Tomonori	WS01-15-P		WS17-20-P		WS20-17-P		WS20-07-P
Machiyama, Hiroaki	WS02-06-O/P		WS28-12-P	Matsuzawa, Moe	WS09-21-P		WS26-08-P
	WS16-14-P	Matsuda, Yasuyuki	○WS18-02-P	Matsuzawa, Shigefumi		Miyake, Yasunobu	○WS15-16-O/P
	WS29-06-O/P		WS18-04-P		○WS13-14-P		WS19-09-P
	○WS29-07-P	Matsuda, Yoshihiro	WS04-11-P		WS26-13-P	Miyako, Keisuke	WS10-08-P
Maeda, Munetoshi	WS03-03-P	Matsuda, Yuzuki	WS05-15-P	Mazda, Osam	WS22-18-P		○WS26-22-P
Maeda, Naoyoshi	WS22-21-P		WS05-29-P	Meguro, Kazuyuki	WS05-07-O/P	Miyakoda, Emi	WS02-16-O/P
Maeda, Shin	WS20-04-O/P	Matsui, Ako	WS10-05-P	Meng, Xin	○WS17-09-P	Miyamoto, Yu	WS08-19-P
Maehara, Akie	WS05-03-P		WS10-06-P		WS25-10-P		○WS14-04-O/P
	WS21-08-O/P		WS16-19-P	Miake, Junichiro	WS20-17-P		WS14-11-P
Maekawa, Yoichi	WS02-05-P		WS25-15-P	Miao, Pengyu	○WS29-10-P	Miyanari, Yusuke	WS02-03-O/P
Maenaka, Katsumi	WS15-10-O/P		○WS27-13-P	Mie, Motoya	WS03-02-P	Miyano, Kei	WS14-02-P
	WS19-10-P	Matsui, Miki	WS14-14-P	Mikami, Norihisa	WS05-17-P	Miyauchi, Eiji	WS20-04-O/P
	WS22-21-P	Matsumoto, Hisatake			WS19-12-P	Miyauchi, Hiromi	WS05-21-P
	WS22-22-P		WS25-07-O/P	Mikami, Yohei	○OT01	Miyauchi, Kosuke	○WS08-15-P
Maeyama, Hiroto	WS05-16-P	Matsumoto, Isao	WS06-12-P		○S03-01	Miyazaki, Hiromi	WS04-09-O/P
Maeyama, Jun-ichi	○WS04-13-P		WS06-17-P		WS12-12-P	Miyazaki, Kazuko	WS13-08-O/P
Maki, Ayaka	○WS01-09-P		WS26-07-P		○C01		WS17-12-P
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Maksim, Mamonkin	WS29-07-P	Matsumoto, Kenji	WS05-08-O/P		WS06-17-P	Miyazaki, Masaki	WS13-08-O/P
Manabe, Ichiro	○S13-03		WS05-11-O/P		WS26-07-P		WS17-12-P
Mandai, Masaki	WS14-10-O/P	Matsumoto, Kotaro	WS26-16-P		○A02		WS25-01-O/P
Maneesow, Patinya	WS04-20-P	Matsumoto, Mitsuyo	WS17-19-P	Miki, Takeo	WS28-14-P	Miyazaki, Toru	WS04-06-P
Manno, Atsushi	WS26-06-O/P	Matsumoto, Satoru		Mimori, Tsuneyo	WS26-17-O/P		WS04-15-O/P
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Mariam, Piruzyan	WS26-12-P	Matsumoto, Sohichi	WS04-13-P		○WS25-10-P	Miyazono, Kohei	WS22-10-O/P
Marie, Chelsea	WS18-22-O/P	Matsumura, Kana	WS17-01-O/P	Minagawa, Atsutaka		Mizobuchi, Masaaki	WS25-11-P
Marie, Solenne	WS12-20-P	Matsumura, Kazunori			○WS29-03-O/P	Mizoguchi, Izuru	WS28-22-P
Maruhashi, Takumi	○S07-01		○WS12-06-P	Minagawa, Yoshihiro			○WS29-23-P
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	WS27-11-P	Matsumura, Ryutaro	WS19-08-P	Minamikawa, Natsuki		Mizukami, Shusaku	WS08-18-O/P
Maruo, Asuka	○WS10-15-P	Matsumura, Takayuki	WS08-03-O/P		WS22-25-P	Mizukami, Tomoharu	WS08-03-O/P
Maruyama, Takeshi			WS08-04-P		WS24-01-P	Mizumura, Maki	WS15-20-P
	WS22-20-P	Matsuo, Kazuhiko	WS28-06-P	Mino, Takashi	WS25-02-O/P	Mizushima, Ichiro	WS12-12-P
Maruyama, Toshiaki			○WS28-07-P	Mirkatouli, Fatemeh		Mizutani, Eiji	WS03-11-O/P
	WS05-03-P	Matsuo, Kazuhiro	WS23-08-P		○WS06-16-P		WS03-12-P
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Moreland, Nikki	WS18-16-O/P		WS26-06-O/P		WS17-19-P	Nagata, Keiko	○WS20-17-P
Mori, Ayana	○WS12-15-O/P	Motomura, Kenichiro		Muro, Ryunosuke	WS16-06-O/P	Nagata, Ritsu	○WS12-08-O/P
Mori, Daichi	○WS01-05-O/P		WS05-08-O/P		○WS24-14-P	Nagata, Shiho	WS12-15-O/P
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Mori, Kazuma	WS04-09-O/P	Motomura, Yasutaka		Murota, Hiroyuki	WS29-01-O/P	Nagatake, Takahiro	WS18-14-O/P
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Mori, Mayumi	○WS02-10-P		WS05-10-O/P		○WS25-14-P	Nagayoshi, Yu	WS18-01-P
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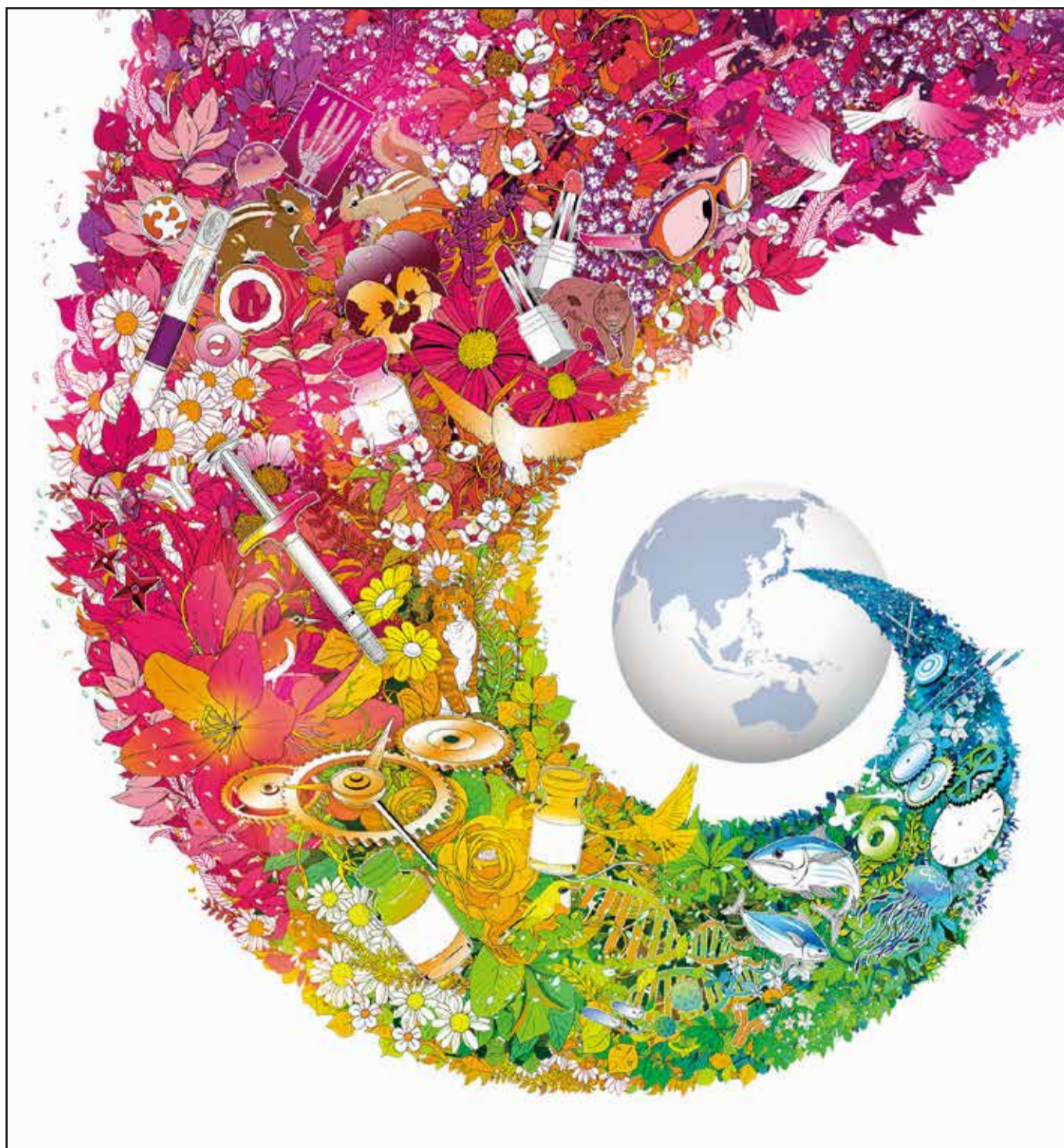
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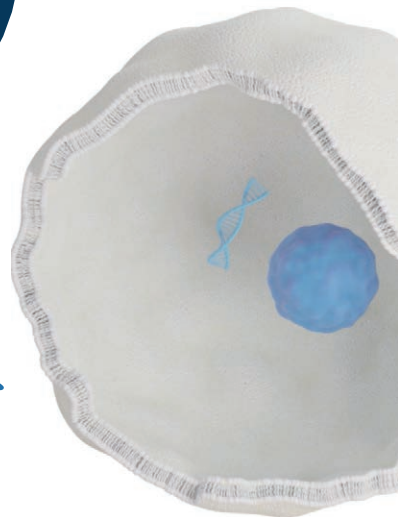
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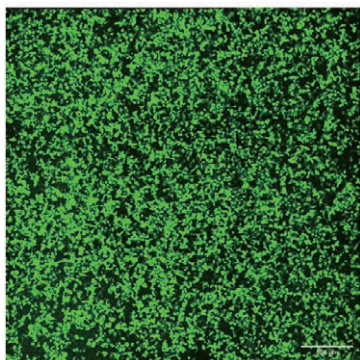
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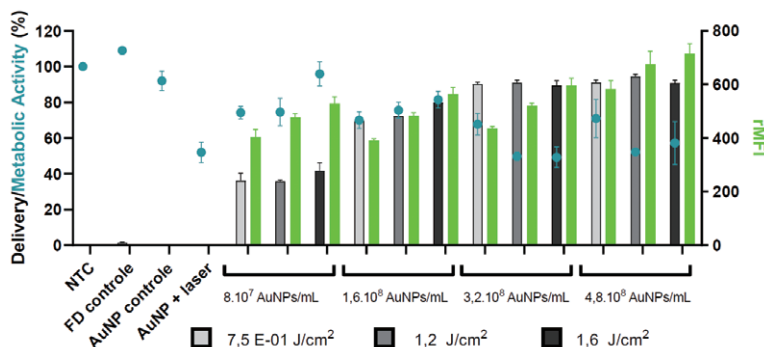
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iPS 細胞における FD150 の細胞内送達最適化

・送達効率 (左: y 軸 グレーのバー) ・相対平均蛍光強度 (右: y 軸 (rMFI) 緑)
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