2024

日本免疫学会総会・学術集会記録

The 52nd Annual Meeting of The Japanese Society for Immunology

第 52 巻

Program

Makuhari Messe

January 17 (Wed.)

18 (Thu.)

19 (Fri.)

特定非営利活動法人 日本免疫学会

Proceedings of the Japanese Society for Immunology (JSI)
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VisionSort ゴーストサイトメトリー® 技術搭載

細胞形態情報をAI(人工知能)により解析し、 目的細胞を分取できる独自技術を搭載したイメージングセルソーター

デュアル機能セルソーター

新規のAIベース細胞形態データ分析・ソート機能に加え、従来の蛍光強度情報による分析・ソートが可能

独自の細胞特性測定・解析手法

独自に開発した光学技術により、 細胞の形態的特徴を包括的に測定:解析

バイアスフリーな特徴判別

AIを活用し、細胞の特徴を 従来マーカーに影響されずに判別



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仕様

光学系	
搭載レーザー	405nm, 488nm, 637nm
検出チャンネル	FSC/BSC, 蛍光:最大5パラメータ, ゴーストモーションイメージ (GMI): 最大5パラメータ
流路系	
純度/収率	純度:>98%、 収率:80%(ポアソン分布の期待値)
リンパ球の生存率	>99%
細胞サイズ	4–40 μ m

The 52nd Annual Meeting of The Japanese Society for Immunology

January 17-19, 2024 Makuhari Messe

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Alfred Singer (NIH, USA)

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(~December 31, 2024)

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(~December 31, 2026)

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The 52nd Annual Meeting of the Japanese Society for Immunology Congress Secretariat

c/o A & E Planning, Co., Ltd. 6th floor, Shin-Osaka Grand Bldg., 2-14-14, Miyahara, Yodogawa-ku, Osaka, 532-0003, Japan

TEL: +81-6-6350-7163

E-mail: jsi2023@aeplan.co.jp

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. 52

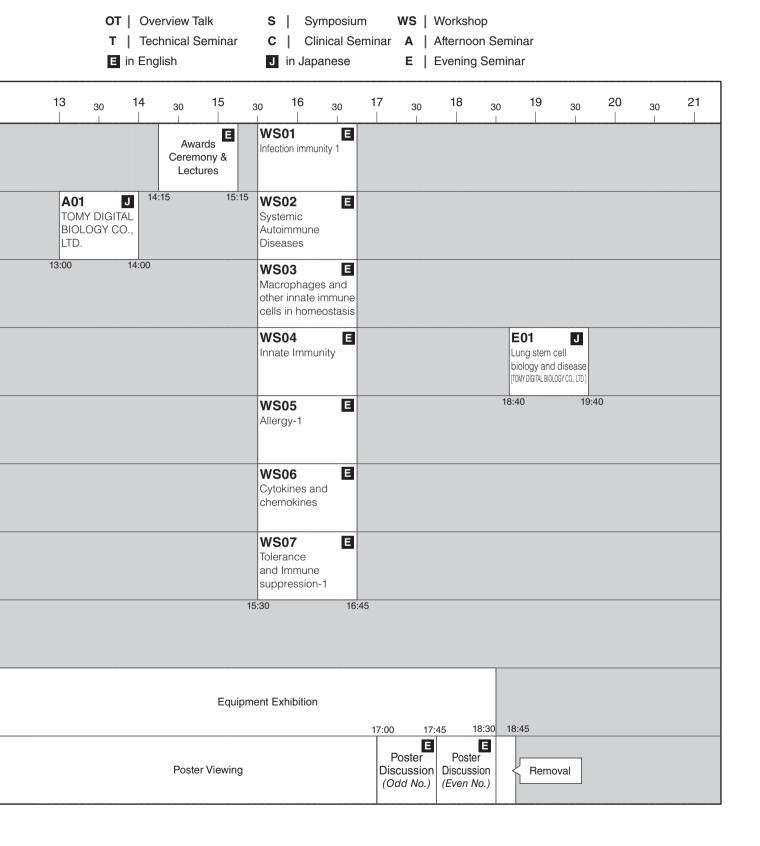
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The 52nd Annual Meeting of the Japanese Society for Immunology Program at a glance

January 17 (Wed.), 2024

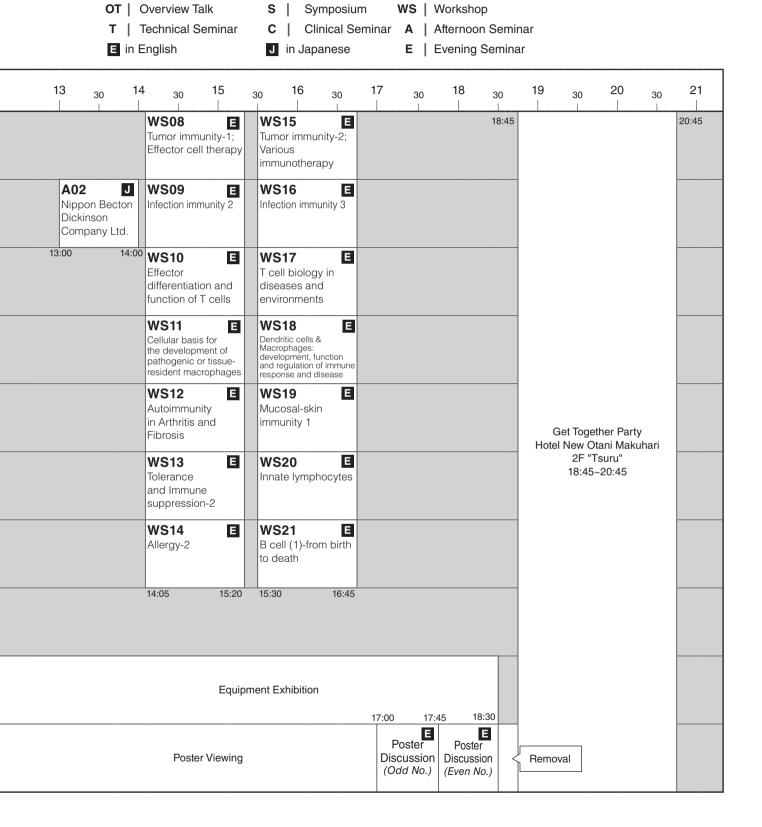
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	Convention Hall A	Room A		J Vaccine mechanism and design:						T01 Nippon Be Dickinson Ltd.		,
05	Convention Hall B	Room B		OT02 S02 E Immunological Memory: AMED-CREST "Immune Memory" Sponsored Session						C01 Sanofi k	(.K.	
2F	International Conference Room	Room C		OT03	S03 Mucosal imn infection and AMED-CRES Sponsored S	ST "Immı	r the cor nation: une Men	ntrol of nory"		C02 AbbVie	J GK	
	201	Room D		OT04	S04 Decoding stora referential immune percep	⊰esearch	Areas (A)	"Selt-reterentia		T02 Funakos Ltd.	J shi Co.,	
	301	Room E		OT05	S05 Diverse imm communicat US-Japan Im Co-organize	ion in he munolo	alth and	I disease: ram		TO3 TOMY E BIOLOG LTD.		
05	304	Room F	8:	30 9:	00				11:30	T04 Thermo Scientifi		
3F	302	Room G								C03 Mitsubishi Ta Corporation/ Pharmaceution	Janssen	1
	303	Room H		9:	00				11:45	C04 CHUGA MACEU CO., LTI	TICAL	12:45
1F	Exhibition Hall 7	Equipment Exhibition	8	:30			Equipme	ent Exhibition	on			
11	Exhibition Pall /	Poster		Installation			Poste	er Viewing				



The 52nd Annual Meeting of the Japanese Society for Immunology Program at a glance

January 18 (Thu.), 2024

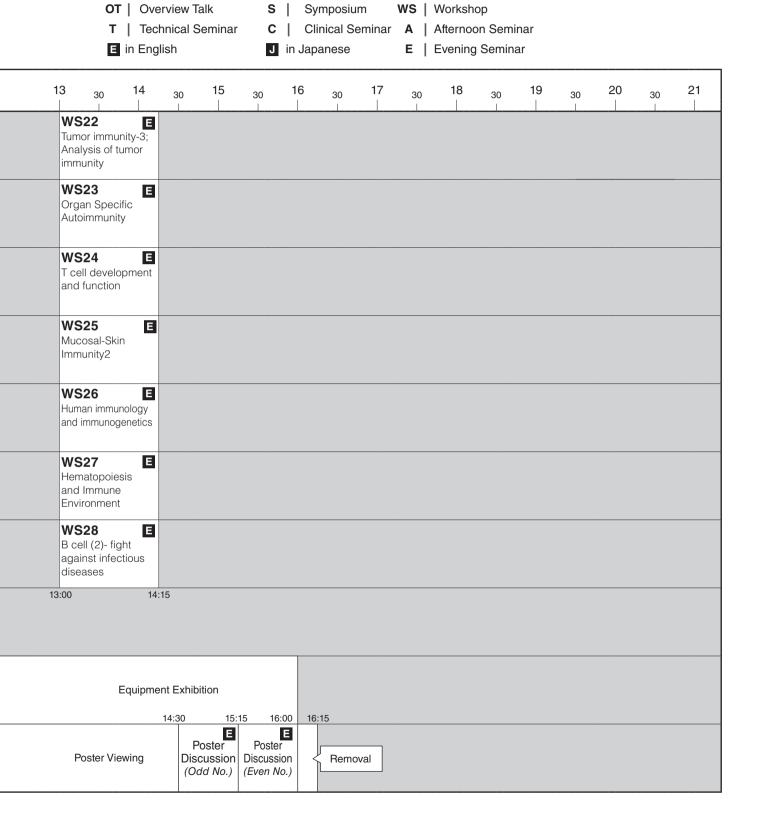
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0.5	Convention Hall B	Room B		ОТО	J	S07 Inflammation repair: KAI					T05 10x Ger SCRUM		
2F	International Conference Room	Room C		ОТО	J	S08 Autoimmur Immunolog				3	T06 Beckma Coulter		
	201	Room D		ОТО	J F	S09 Recent advoarriers an JSI-JSA Jo	d allergic	march:	logical	3	T07 Nippon Dickins Compa	on	
	301	Room E		OT1	J N	S10 Neural signalir AMED-Moonsl Co-organized JS-Japan Imm	not "Regulat Session	ion of Micro		n"	C06 Modern Co., Ltc	J ia Japan	
05	304	Room F	8	:30	9:0	0				11:30	C07 Otsuka Pharma Co., Ltc	J ceutical	
3F	302	Room G									C08 GlaxoSr K.K.	J mithKline	
	303	Room H			9:0	0				11:4	C09 MSD K.	J K.	12:45
1F		Equipment Exhibition	8	3:30				Equipme	ent Exhibit	ion			
15	Exhibition Hall 7	Poster		Installat	tion			Poste	er Viewing				



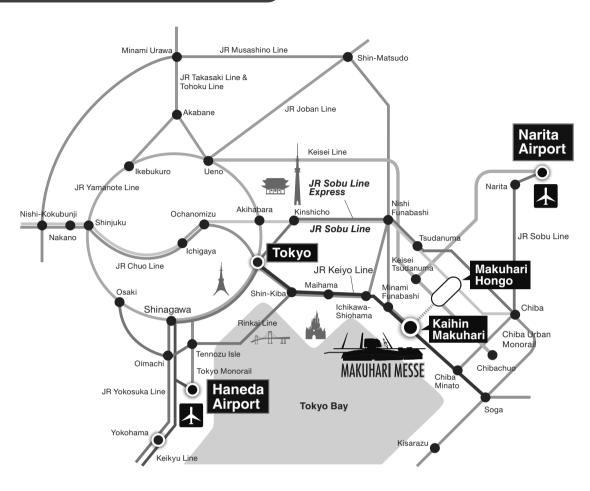
The 52nd Annual Meeting of the Japanese Society for Immunology Program at a glance

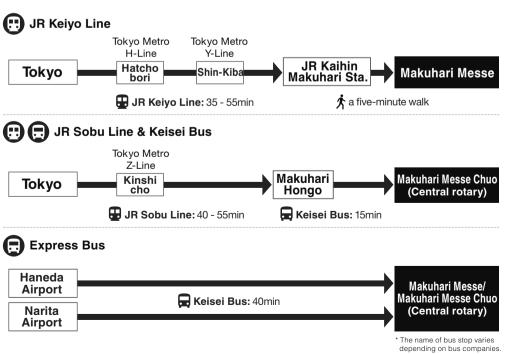
January 19 (Fri.), 2024

Bui	ilding/Room	Program Room Number	8 ;	30	9 30	10	30	11 	30	12	30	
	Convention Hall A	Room A		OT11	S11 Cancer imm Sponsored b	unothera by Interna	py: ational In	nmunolog		C10 SHIONO	J OGI	
	Convention Hall B	Room B		OT12	S12 Epigenetics	in Immur	nology	E	I			
2F	International Conference Room	Room C		OT13	S13 Innate-like T ASI-JSI Join			E	1	C11 Pfizer Ja	J pan Inc.	
	201	Room D		OT14	S14 Immune sys SFI-JSI Joint	tem deve Session	elopment	: :	1	T08 Cytek Ja Corpora		
	301	Room E		OT15	S15 Humoral Imr DGFI-JSI Jo		on	E		C12 Asahika Pharma		
3F	304	Room F	8.	:30 9:	00				11:30	T09 COSMC CO., LTI	BIO D.	
35	302	Room G								C13 Daiichi Sa Company,		
	303	Room H		9:	00				11:45	T10 Standard K.K.	J BioTools	12:45
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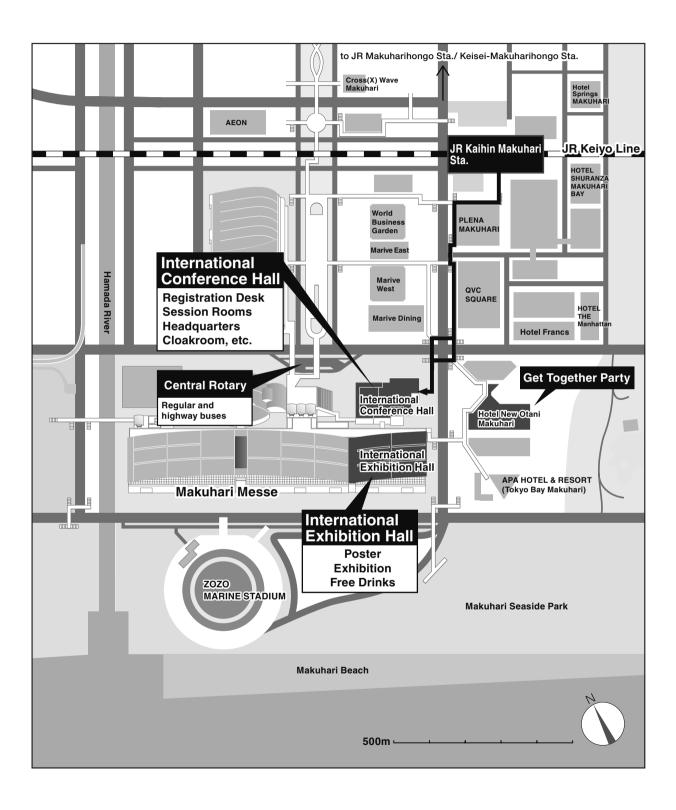


Access to Makuhari Messe

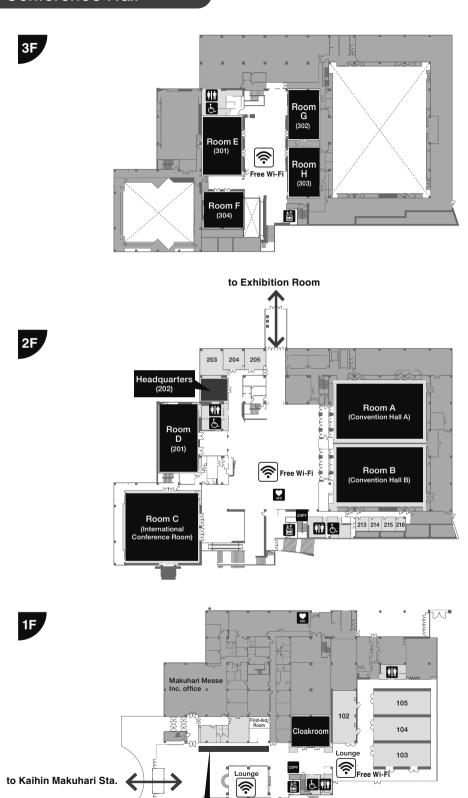




General Floor Plans



International Conference Hall

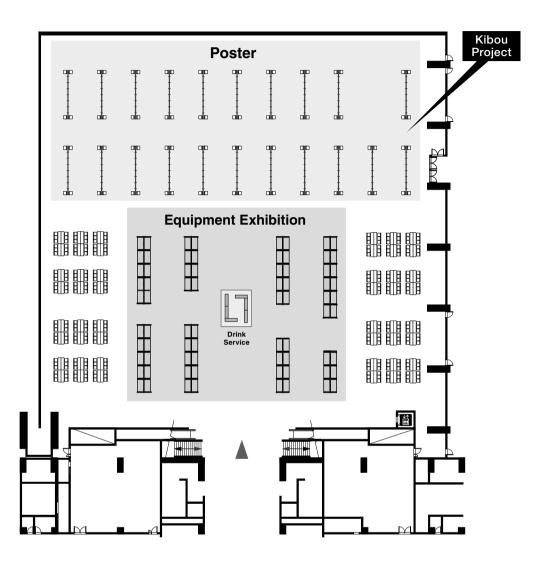


Registration Desk

to Kaihin Makuhari Sta.

611

International Exhibition Hall



	Exhibitiors List										
1	CLEA Japan, Inc.	17	NACALAI TESQUE,INC.	33	Cytek Japan Corporation						
2	CellSeed.Inc	18	IWAI CHEMICALS COMPANY LTD.	34	Standard BioTools K.K.						
3	CSCRIE CORPORATION	19	Nippon Becton Dickinson Company, Ltd.	35	Evident Corporation						
4	Fushimi Pharmaceutical / Proteo Bridge Corporation	20	Sino Biological JAPAN Inc.	36	TOYO Corporation						
5	Mirxes Japan Co. Ltd.	21	IVIM Technology	37	SYSMEX CORPORATION						
6	AS ONE CORPORATION	22	Meiwafosis Co., Ltd.	38	Tokyo Ohka Kogyo Co., Ltd.						
7	Daicel Corporation	23	Miltenyi Biotec K.K.	39	Myoridge Co.Ltd.						
8	Nepa Gene Co., Ltd.	24	Revvity, Inc.	40	Ajinomoto Bio-Pharma Services GeneDesign, Inc.						
9	Lonza K.K.	25	Shigematsu & Co.,LTD.	41	Merck Ltd. Japan						
10	Bio-Techne (Proteinsimple, ACD, R&D Systems, NOVUS, TOCRIS)	26	DENIS Pharma K.K.	42	Summit Pharmaceuticals International Corporation						
11	Active Motif	27	ThinkCyte K.K.	43	NanoString Technologies						
12	Primetech Corporation	28	Sony Corporation	44	Pinpoint Photonics, Inc.						
13	BGI JAPAN K.K	29	10x Genomics / SCRUM Inc.	45	Setsuro Tech Inc.						
14	TOMY DIGITAL BIOLOGY CO., LTD.	30	Thermo Fisher Scientific	46	National BioResource Project						
15	Beckman Coulter K.K.	31	COSMO BIO CO., LTD.	47	National Center for Geriatrics and Gerontology						
16	CyberomiX Inc.	32	Funakoshi Co., Ltd.	48	VERITAS 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。

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 14,000 円 学生会員 * 3,000 円 学部学生会員 * 無 料 非会員 17,000 円 非会員学生 * 7,000 円 非会員学部学生 * 無 料

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

〈参加受付開設時間〉

1月17日(水)7:45~17:001月18日(木)8:00~17:001月19日(金)8:00~13:00

◆ 名誉会員・功労会員

1階 エントランスロビーの学会事務局デスクにお越しください。

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。2024 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】		【入会金】
国内正会員	11,000円	国内正会員、国内学生会員(博士)、
国内学生会員 (博士)*	3,000円	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)*	0円	国内学生会員(学部・修士)*、
海外正会員	12,000円	海外学生会員(学部・修士): 0円
海外学生会員 (博士)*	4,000円	* 学生会員(博士・学部・修士)の方は
海外学生会員 (学部・修士)*	0円	学生証をご提示ください。

※一般演題の筆頭著者(発表者)は、2023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。

2023 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:1月17日(水) 14:15~14:25 A 会場(コンベンションホール A) にて行います。

- · 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:1月17日(水)14:25~15:15 ※授賞式に引き続き行います。 日本免疫学会賞、日本免疫学会ヒト免疫研究賞、日本免疫学会女性免疫研究者賞 受賞講演

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 15 テーマ(S01 \sim S15)の国際シンポジウムを開催します。 演者の選考および形式については、プログラム委員会で指名した座長に一任いたしました。 それぞれのシンポジウムが同時進行する形をとります。シンポジウム進行方法、各演者の講演時間などは全て座長に一任しております。

JSI-JSA Joint Symposium

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

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

アフタヌーンセミナー

協力企業との密な連携のもと、次世代を担う免疫学研究者を育成するプラットホームの構築をめ

ざし、企業ならではの趣向を取り入れたセミナーです。

ポスター、ワークショップ (口頭発表)

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

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はお昼の時間帯と夜の時間帯(イブニングセミナーとして)に、クリニカルセミナーはお昼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いただくセミナーです。

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 エントランスロビー

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

※会場の状況、直前セッションの進行状況等により前後することがございます。

〈ご注意〉

- ・セミナー開始時刻までに来られない場合にはセミナー整理券は無効となり、整理券をお持ちでない方にご提供しますことをご了承ください。
- ・整理券をお持ちでなくてもセミナーを聴講することはできますが、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、大会会場内で機器・試薬展示を行います。休憩コーナー、ドリンクコーナーもご用意いた しますので、是非ご来場ください。 また、出展企業より提供される景品が当たるスタンプラリーも実施します。豪華景品もご用意して おりますので、是非ご参加ください。

8. 会員懇親会

日 時:1月18日(木)18:45-20:45

場 所:ホテルニューオータニ幕張 2階 "鶴の間"

参加費:会費・非会員4,000円 学生・非会員学生1,000円

受付:幕張メッセ会議棟1エントランスロビー

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、□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.

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	14,000
Doctoral Student*	JPY	3,000
Undergraduate and Master's Degree Student*		Free
Non-Member	JPY	17,000
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)

January 17 (Wed) 7:45 - 17:00 January 18 (Thu) 8:00 - 17:00 January 19 (Fri) 8:00 - 13:00

♦ Honorary members / Meritorious members

Please come to the JSI Secretariat Desk at Entrance Lobby, 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
Undergraduate and Master's Degree Student*

JPY1,000
Free

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 2023 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, January 17, 14:15-14:25, Room A (Convention Hall A)

- · 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, January 17, 14: 25-15: 15, 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 52nd 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.

^{*}All of students are required to show thieir 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.

Symposia

International symposia on 15 topics (S01-S15) will be held by both domestic and overseas immunologists. The program committee appointed chairs of symposia and left selection of speakers to the discretion of those chairs.

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

JSI-JSA Joint Symposium

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

JSI-JCR Joint Symposium

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.

Technical Seminars, Evening Seminar, Clinical Seminars

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

Please refer to "6. Luncheon Seminar Ticket" for more information regarding Luncheon 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 regents, technologies, machines and equipment, or latest equipment for researching allergy, immunological diseases, cancer, and infectious disease.

♦ Clinical Seminars

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

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

A box lunch will be served for those has a Seminar Ticket at Technical, Evening Seminar and 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: Entrance Lobby, 1F

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

Receiving a box lunch

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

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

(IMPORTANT)

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

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 rally.

8. Get Together Party

Date and Time: January 18, 18:45-20:45 Venue: 2F "Tsuru", The New Otani Makuhari

Fee: Member • Non-Member JPY4,000 Student • Student Non-Member JPY1,000

Registration desk: Entrance Lobby, 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, Wednesday, January 17

OT01 Overview Talk 01 Room A: Convention Hall A

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

Katherine Kedzierska (University of Melbourne and Doherty Institute)

Overview of the immunological basis for vaccination

Takeshi Inoue Pandemic Preparedness, Infection and Advanced Research Center (UTOPIA), The University of Tokyo

8:30 ~ 9:00, Wednesday, January 17

OT02 Overview Talk 02 Room B: Convention Hall B

Chairpersons: Toshinori Nakayama (Chiba University)

Laura K. Mackay (The University of Melbourne The Peter Doherty Institute of Infection and Immunity)

Maintenance of memory lymphocytes

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

8:30 ~ 9:00, Wednesday, January 17

OT03 Overview Talk 03 Room C: International Conference Room

Chairpersons: Koji Hase (Faculty of Pharmacry, Keio University)

Yumiko Imai (Center for Vaccine and Adjuvant Resrarch National Institutes of Biomedical Innovation, Health and Nutrition)

The mucosal immune system as a protective platform against pathogens

Yoshiyuki Goto Medical Mycology Research Center, Chiba University

8:30 ~ 9:00, Wednesday, January 17

OT04 Overview Talk 04 Room D: 201

Chairpersons: Kensuke Miyake (The University of Tokyo)

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

Decoding storage diseases to understand self-referential immune responses

Kensuke Miyake Div Innate Immunity, Inst Med Sci, The University of Tokyo

8:30 ~ 9:00, Wednesday, January 17

OT05 Overview Talk 05 Room E: 301

Chairpersons: Ichiro Manabe (Chiba University Graduate School of Medicine)
Yumiko Oishi (Nippon Medical School)

Immunometabolic crosstalk: overview

Ichiro Manabe Chiba University

OT06 Overview Talk 06 Room A: Convention Hall A

Chairpersons: Shohei Hori (Graduate School of Pharmaceutical Sciences The University of Tokyo)
Sayuri Yamazaki (Department of Immunology, Graduate School of Medical Sciences Nagoya City University)

Regulation of T cell responses in health and disease

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

8:30 ~ 9:00, Thursday, January 18

OT07 Overview Talk 07 Room B: Convention Hall B

Chairpersons: Kiyoshi Hirahara (Department of Immunology, Graduate School of Medicine Chiba University)

Motoko Yanagita (Department of Nephrology, Graduate School of Medicine, Kyoto University)

Inflammation driven fibrosis and tissue repair

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

8:30 ~ 9:00, Thursday, January 18

OT08 Overview Talk 08 Room C: International Conference Room

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

Autoimmunity pathology elucidated by immune system-wide investigation using multi-omics datasets

Kazuyoshi Ishigaki Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences / Human Biology-Microbiome-Quantum Research Center (WPI-Bio2Q), Keio University

8:30 ~ 9:00, Thursday, January 18

OT09 Overview Talk 09 Room D: 201

Chairpersons: Masato Kubo (Research Institute for Biomedical Science, Tokyo University of Science•RIKEN Center for Integrative Medical Sciences (IMS))

Satoko TAHARA-HANAOKA (Life Science Center for Survival Dynamics, Institute of Medicine University of Tsukuba)

Current understanding of immunological barriers and allergic march

Satoko TAHARA-HANAOKA Department of Immunology, Institute of Medicine, Life Science Center for Survival Dynamics, University of Tsukuba

8:30 ~ 9:00, Thursday, January 18

OT10 Overview Talk 10 Room E: 301

Chairpersons: Masaaki Murakmai (Institute for Genetic Medicine)

Takanori Kanai (Department of Medicine Keio University)

Overview talk in symposium A New Era of Neuro-immune Crosstalk

Shintaro Hojyo Molecular Psychoneuroimmunology, Institute for Genetic Medicine, Hokkaido University / Group of Quantum Immunology, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology / Institute for Vaccine Research and Development, Hokkaido University

8:30 ~ 9:00, Friday, January 19

OT11 Overview Talk 11 Room A: Convention Hall A

Chairpersons: Shinichiro Motohashi (Department of Medical Immunology, Graduate School of Medicine, Chiba University)
Yuka Maeda (Division of Cancer Immunology, Research Institute/Exploratory Oncology Research
& Clinical Trial Center (EPOC) National Cancer Center)

Cancer immunotherapy in progress -overview talk-

Hiroaki Ikeda Dept. Oncology, Nagasaki Univ. Grad. Sch. Biomed. Sci.

8:30 ~ 9:00, Friday, January 19

OT12 Overview Talk 12 Room B: Convention Hall B

Chairpersons: Haruhiko Koseki (RIKEN Center for Integrative Medical Sciences)

Atsushi Onodera (Chiba University Institute for Advanced Academic Research (IAAR))

Epigenetic regulation in health and disease

Atsushi Onodera Institute for Advanced Academic Research (IAAR), Chiba University / Research Institute of Disaster Medicine (RIDS)

8:30 ~ 9:00, Friday, January 19

OT13 Overview Talk 13 Room C: International Conference Room

Chairpersons: Yuki Kinjo (The Jikei University School of Medicine)

Kazuyo Moro (Laboratory for Innate Immune Systems, School of Medicine Osaka University)

Innate and innate-like lymphocytes: not the same, but not so different

Mitchell Kronenberg La Jolla Institute for Immunology

8:30 ~ 9:00, Friday, January 19

OT14 Overview Talk 14 Room D: 201

Chairpersons: Ichiro Taniuchi (Lab for Transcriptional Regulation RIKEN)

Motoko Kimura (Graduate school of medicine Chiba University)

Recent progress of lymphocyte development in the thymus

Motoko Y. Kimura Chiba University

8:30 ~ 9:00, Friday, January 19

OT15 Overview Talk 15 Room E: 301

Chairpersons: Daisuke Kitamura (Research Institute for Biomedical Sciences, Tokyo University of Science)
Wataru Ise (Division of Microbiology and Immunology, Regulation of Host Defense Team Osaka
University, Center for Infectious Disease Education and Research)

Understanding humoral immunity by multi-disciplinary approach

Yoshimasa Takahashi National Institute of Infectious Diseases

Symposium

Program for Symposia

Symposium 01

Room A 9:00 ~ 11:30 January 17

S01. Vaccine mechanism and design: AMED-SCARDA Co-organized Session

Chairpersons: Ken J Ishii (The Institute of Medical Science, The University of Tokyo)
Katherine Kedzierska (University of Melbourne and Doherty Institute)

S01-01

Cationic Nanogel-based Nasal Vaccines against Respiratory Infections

9:00~9:30

Rika Nakahashi Chiba University Hospital, Department of Human Vaccinology

S01-02

The CD4+ T cell Responses to COVID-19 mRNA Vaccines

9:30~10:00

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

S01-03 10:00~10:30

Influenza and SARS-CoV-2 virus infection and vaccination relies on a network of T cell and

B cell immunity

Katherine Kedzierska

 $University\ of\ Melbourne\ \&\ Doherty\ Institute,\ Australia\ /\ Institute\ for\ Vaccine\ Research\ and\ Development,\ Hokkaido$

University, Sapporo, Japan

S01-04

Development of broadly protective vaccines against influenza virus

Florian Krammer Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, NY

S01-05

Science and Design for nucleic-acid-based vaccine

11:00~11:30

Ken J Ishii Division of Vaccine Science, The Institute of Medical Science, The University of Tokyo

Symposium 02

Room B 9:00 ~ 11:30 January 17

So2. Immunological memory: AMED-CREST"Immune Memory" Sponsored Session

Chairpersons: Toshinori Nakayama (Chiba University)

Laura K. Mackay (The University of Melbourne The Peter Doherty Institute of Infection and Immunity)

S02-01

Memory-type pathogenic Th2 (Tpath2) cells in airway inflammation

9:00~9:25

Toshinori Nakayama Chiba University

S02-02

Axon guidance molecules coordinate neural-metabolic-inflammatory outputs from the

9:25~9:50 **brain**

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

S02-03

Inter-organ diversity of tissue-resident lymphocytes

9:50~10:15

Laura Mackay Department of Microbiology and Immunology, The University of Melbourne at The Peter Doherty Institute for Infection and Immunity, Melbourne, VIC, Australia

S02-04

Heterogeneity and molecular regulation of intestinal tissue-resident memory CD8 T cells

10:15~10:40 **John Chang** University of California San Diego

S02-05 10:40~11:05

Functional heterogeneity of tissue-resident memory T cells and its relevance to the pathogenesis of inflammatory bowel disease

Mari Murakami Laboratory of Immune Regulation, Graduate School of Medicine, Osaka University, Japan / Immunology Frontier Research
Center. Osaka University. Japan

S02-06

Humoral immune memory elicited by COVID-19 vaccine

11:05~11:30

Yoshimasa Takahashi National Institute of Infectious Diseases

Symposium 03

Room C 9:00 ~ 11:30 January 17

S03. Mucosal immunity for the control of infection and inflammation: AMED-CREST"Immune Memory" Sponsored Session

Chairpersons: Koji Hase (Faculty of Pharmacry, Keio University)

Yumiko Imai (Center for Vaccine and Adjuvant Resrarch National Institutes of Biomedical Innovation, Health and Nutrition)

S03-01

Clinical and basic analysis of neurological symptoms in long COVID

9:00~9:30 Yumiko Imai National Institutes of Biomedical Innovation, Nutrition and Health

S03-02

Immune-mediated mechanisms of tissue adaptation and maladaptation

9:30~10:00 Shruti Naik NYU Langone Health

S03-03

Microbial metabolite-associated aberrant activation of fibroblasts in development of

ulcerative colitis.

Hisako Kayama Institute for Advanced Co-Creation Studies, Osaka University

Commensal microorganisms cooperatively induce follicular helper T cells in Peyer's patches

Koji Hase Facul. of Pharm and Grad. Sch. of Pham. Sci., Keio Univ. / IFeS, Faul. of Food and Agr. Sci., Fukushima Univ.

S03-05

Host-microbe interactions in intestinal health and disease

11:00~11:30

Ken Cadwell University of Pennsylvania Perelman School of Medicine

Symposium 04

Room D 9:00 ~ 11:30 January 17

S04. Decoding storage diseases to understand self-referential immune responses: Transformative Research Areas (A) "Self-referential immune perception" co-organized session

Chairpersons: Kensuke Miyake (The University of Tokyo)

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

S04-01

TLR7/8 stress response drives histiocytosis in SLC29A3 disorders

9:00~9:25 **Takuma Shibata** The Institute of Medical Science, The University of Tokyo

S04-02

Pattern Recognition Receptors Initiate Immune Responses in Gaucher Disease

9:25~9:50 Charles Schutt Research Institute for Microbial Diseases, Osaka University

S04-03

9:50~10:20 host defense

The pro-autophagic GTPase IRGM1 links mitochondrial housekeeping to autoimmunity and host defense

Michael Fessler National Institute of Environmental Health Sciences/NIH, Research Triangle Park, NC USA

S04-04 10:20~10:50 RNA lipidation facilitates cellular deposition and functional regulation of LDL-delivered small RNAs in macrophage lipid droplets.

Kasev C Vickers Vanderbilt University Medical Center / Vanderbilt University

S04-05 10:50~11:15 Inflammatory responses supported by the endolysosomal system of immune cells - making breakthroughs in therapeutic strategies for intractable diseases

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

Symposium 05

Room E 9:00 ~ 11:30 January 17

S05. Diverse immunometabolic communication in health and disease: US-Japan Immunology Program Co-organized Session

Chairpersons: Ichiro Manabe (Chiba University Graduate School of Medicine) Yumiko Oishi (Nippon Medical School)

\$05-01 9:00~9:30 Identification of a novel subset of macrophage that regulate muscle repair and regeneration

Yumiko Oishi Tokyo Medical and Dental University

S05-02 9:30~10:00

Exploiting dynamic enhancer landscapes to decode macrophage phenotypes in health and disease

Christopher K Glass UC San Diego

S05-03

Macrophages of the heart

10:00~10:30

Andres Hidalgo Yale School of Medicine

S05-04

The sPLA, network in immunometabolic crosstalk

10:30~11:00

Makoto Murakami The University of Tokyo Graduate School of Medicine

\$05-05 11:00~11:30 The novel function of lipid synthetic flux on $ROR\gamma t$ -mediated Th17 cell differentiation and pathogenicity

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

Symposium 06

Room A 8:50 ~ 11:30 January 18

S06. Regulation of T cell responses in health and disease: US-Japan Immunology Program Co-organized Session

Chairpersons: Shohei Hori (Graduate School of Pharmaceutical Sciences The University of Tokyo)
Sayuri Yamazaki (Department of Immunology, Graduate School of Medical Sciences
Nagoya City University)



Notch2 and retinoic acid signals induce IL-23 expression by EpCAM* DCIR2* cDC2s in gut-associated lymphoid tissues

Kejii Hirota Institute for Life and Medical Sciences, Kyoto University

S06-02 CTLA-4-mediated regulation of T cell / B cell collaboration and autoimmunity

9:13~9:43 **Lucy Walker** University College London

S06-03 Regulation of T cell activation by cis-PD-L1-CD80 interactions

9:43~10:06 Daisuke Sugiura Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo

S06-04 Regulatory T cell-dendritic cell crosstalk as controllers of health and disease

10:06~10:29 Sayuri Yamazaki Department of Immunology, Nagoya City University Graduate School of Medical Sciences

Foxp3^{DExon2}-expressing mice develop spontaneous autoimmunity that is exacerbated by UVB

10:29~10:59 **exposure**

Symposium 07

Steven F Ziegler Center for Fundamental Immunology, Benaroya Research Institute

S06-06 An emergent theme in Treg biology: tissue-Treg control of parenchymal-tissue stem/

10:59~11:30 progenitor cells

Diane Mathis Department of Immunology, Harvard Medical School

S07. Inflammation driven fibrosis and tissue repair: KAI-JSI Joint Session

Room B 9:00 ~ 11:30 January 18

Chairpersons: Kiyoshi Hirahara (Department of Immunology, Graduate School of Medicine Chiba University)

Motoko Yanagita (Department of Nephrology, Graduate School of Medicine, Kyoto University)

S07-01 Tissue-destructive fibroblasts in arthritis and stromal immunology

9:00~9:25 Hiroshi Takayanagi Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo

Tertiary lymphoid tissues function as inflammation amplifiers via interactions between immune cells and proinflammatory parenchymal cells in the kidney

Motoko Yanagita Department of Nephrology, Graduate School of Medicine, Kyoto University

S07-03 Innate Immune Memory in Diseases of the Aging Eye

9:50~10:15 Przemyslaw Sapieha University of Montreal

S07-04 Diverse macrophages in the central nervous system

10:15~10:40 **Takahiro Masuda** Medical Institute of Bioregulation, Kyushu University

S07-05 Macrophages in lung inflammation and repair

10:40~11:05 Ruth Franklin Harvard University / Harvard Medical School

S07-06 Double-Edged SiglecF+ Neutrophils: Orchestrators of Airway Inflammation and Renal

11:05~11:30 **Fibrosis**

Hye Young Kim Seoul National University College of Medicine

S08. Autoimmune disease and systems immunology: JSI-JCR Joint Session

Chairpersons: Keishi Fujio (Department of Allergy and Rheumatology Graduate School of Medicine, The University of Tokyo)

Sachiko Miyake (Department of Immunology, Juntendo University School of Medicine)

\$08-01 9:00~9:30 Regulation of CXCL13+ T peripheral helper cells and T follicular helper cells

Deepak Rao Brigham and Women's Hospital

\$08-02 9:30~10:00 Multi-omic molecular profiling of immune-mediated inflammatory diseases

Katsuya Suzuki National Hospital Organization Tokyo Medical Center / Keio University

S08-03

Autoreactive B cell responses in rheumatic disease; what makes them different?

Rene Toes Dept. of rheumatology, Leiden University Medical Center, Leiden, The Netherlands

\$08-04 10:30~11:00 The skewing of the B cell receptor repertoire in unswitched memory B cells correlates with the disease activity of systemic lupus erythematosus

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

S08-05

Visualization and identification of pathogenic macrophages in autoimmune diseases

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

Symposium 09

Room D 9:00 ~ 11:30 January 18

S09. Recent advances in immunological barriers and allergic march: JSI-JSA Joint Session

Chairpersons: Masato Kubo (Research Institute for Biomedical Science, Tokyo University of Science•RIKEN Center for Integrative Medical Sciences (IMS))

Satoko Tahara-Hanaoka (Life Science Center for Survival Dynamics, Institute of Medicine University of Tsukuba)

S09-01

Recent advances in immunological barriers and allergic march

9:00~9:30 Stephanie C Eisenbarth Northwestern Univ Feinberg Sch of Med

S09-02 9:30~10:00

Role of IL-13 signal in allergic march caused by atopic dermatitis

Masato Kubo Tokyo University of Science / Riken IMS

S09-03 10:00~10:30 Toward stopping the atopic march: unraveling cellular and molecular mechanisms of cutaneous sensitization

Mei Li Institut de Génétique et de Biologie Moléculaire et Cellulaire (IGBMC)-CNRS UMR7104 /Inserm U1258/University of Strasbourg-France

S09-04 10:30~11:00

Neonatal skin microbiome and immune response in infantile atopic dermatitis development

Yumi Matsuoka-Nakamura Osaka Univ.

S09-05

Oral tolerance hampers the induction of cutaneous delayed-type hypersensitivity

11:00~11:30 Kenji Kabashima Department of Dermatology, Kyoto University Graduate School of Medicine

S10. Neural signaling in immunology:

AMED-Moonshot "Regulation of microinflammation" Coorganized Session

US-Japan Immunology Program Co-organized Session

Chairpersons: Masaaki Murakmai (Institute for Genetic Medicine)
Takanori Kanai (Department of Medicine Keio University)

\$10-01 9:00~9:30 The Gut Microbiota-Induced Kynurenic Acid Recruits GPR35 positive Macrophages to Promote Experimental Encephalitis

Tomohisa Sujino Keio University, Center for Diagnosis and Therapeutic Endoscopy

S10-02

Nociceptor neuron regulation of barrier immunity

9:30~10:00 Isaac Chiu Harvard Medical School

\$10-03 10:00~10:30 Remembering immunity: central control of immune processes

Hilla Azulay-Debby Technion-Israel Institute of Technology

\$10-04 10:30~11:00 The Gateway Reflex: a novel neuro-immune mechanism regulating tissue specific

inflammatory diseases

Rie Hasebe National Institute for Physiological Sciences

S10-05

Hacking Neural Circuits to Treat Inflammation

Sangeeta S. Chayan Professor, Institute of Bioelectronic Medicine, The Feinstein Institutes for Medical Research

Symposium 11

Room A 9:00 ~ 11:30 January 19

S11. Cancer immunotherapy: Sponsored by International Immunology

Chairpersons: Shinichiro Motohashi (Department of Medical Immunology, Graduate School of Medicine, Chiba University)

Yuka Maeda (Division of Cancer Immunology, Research Institute/Exploratory Oncology Research & Clinical Trial Center (EPOC) National Cancer Center)

S11-01

Enhancing CAR T Cell Responses to Blood Cancers

9:00~9:35

Carl June University of Pennsylvania

\$11-02 9:35~10:00 Immune-genome precision medicine targeting immune suppression in the tumor microenvironment

Hiroyoshi Nishikawa Division of Cancer Immunology, Research Institute, National Cancer Center / Department of Immunology, Nagoya University Graduate School of Medicine

S11-03

Research and development of novel CAR-T cell therapies

10:00~10:35 **N**

Naoto Hirano Princess Margaret Cancer Centre / University of Toronto

S11-04 10:35~11:00

CAR-T cells expressing both IL-7 and CCL19 induce epitope spreading via cross presentation of endogenous tumor antigens

Koji Tamada Yamaguchi University Graduate School of Medicine, Department of Immunology

S11-05

Clinical application of iPS cell-derived NKT cells to cancer immunotherapy

11:00~11:25 Shinichiro Motohashi Department of Medical Immunology, Graduate School of Medicine, Chiba Univ.

Symposium 12

Room B 9:00 ~ 11:30 January 19

S12. Epigenetics in immunology

Chairpersons: Haruhiko Koseki (RIKEN Center for Integrative Medical Sciences)

Atsushi Onodera (Chiba University Institute for Advanced Academic Research (IAAR))

S12-01 9:00~9:30

Translating Cytokine Signaling: Lessons Learned and Future Opportunities

John OShea National Institute of Arthritis and Musculoskeletal and Skin Diseases

\$12-02 9:30~10:00 The role of TET deficiency in T cell expansion, T regulatory cell function and inflammation

Anjana Rao La Jolla Institute for Immunology

\$12-03 10:00~10:30 Chromatin-level regulation of neural stem cell fate during mouse neocortical development

Yukiko Gotoh The University of Tokyo

\$12-04 10:30~11:00 PCGF1-PRC1 links chromatin replication and cell fate determination during hematopoietic cell lineage commitment

Junichiro Takano Division of Developmental Genetics, RIKEN IMS

\$12-05 11:00~11:30 Importance of naïve Treg-specific DNA hypomethylation in autoimmune disease

susceptibility

Naganari Ohkura IFReC, Osaka University

Symposium 13

Room C 9:00 ~ 11:30 January 19

S13. Innate-like T cells and ILCs: ASI-JSI Joint Session

Chairpersons: Yuki Kinjo (The Jikei University School of Medicine)

Kazuyo Moro (Laboratory for Innate Immune Systems, School of Medicine Osaka University)

\$13-01 9:03~9:27 The role of group 2 innate lymphoid cells in ulcerative colitis

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

S13-02 9:27~9:51

Exhaustion and Activation-Induced Cell Death of ILC2s in chronic allergy

Takashi Ebihara Department of Medical Biology, Akita University Graduate School of Medicine

\$13-03 9:51~10:15 Type I innate lymphoid cells: the unique roles in protecting from drug and ischemia-induced liver injuries

Akira Shibuya Department of Immunology, Institute of Medicine, University of Tsukuba / R&D Center for Innovative Drug Discovery, University of Tsukuba

S13-04

 $V_Y 9V\delta 2$ T cells recognize butyrophilin 2A1 and 3A1 heteromers

10:15~10:39

Adam P Uldrich Department of Microbiology & Immunology at the Peter Doherty Institute for Infection and Immunity, University of

Melbourne, Parkville, Victoria, 3010, Australia / Cancer Immunology Program, Peter MacCallum Cancer Centre, Melbourne,

Australia

\$13-05 10:39~11:03 Cellular CD1 lipidomes reveal lipid binding motifs and three general size-based antigen display mechanisms

D. Branch Moody Brigham and Women's Hospital - Harvard Medical School

S13-06

Memory responses by innate-like T cells

11:03~11:27

Mitchell Kronenberg La Jolla Institute for Immunology

Symposium 14

Room D 9:00 ~ 11:30 January 19

S14. Immune system development: SFI-JSI Joint Session

Chairpersons: Ichiro Taniuchi (Lab for Transcriptional Regulation RIKEN)

Motoko Kimura (Graduate school of medicine Chiba University)

\$14-01 9:00~9:30 The RANKL-RANK-OPG system in thymic epithelial cells poses an immunological trade-off between self- and non-self-recognition by T cells

Takeshi Nitta Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo

S14-02

Regulatory mechanism of RORyt expression in innate and adaptive lymphocytes

9:30~10:00

Shinichiro Sawa Kyushu University

S14-03

MAIT cell development

10:00~10:30

Olivier Lantz Institut Curie, Paris, France

S14-04

How T lineage fate is decided in the thymus

10:30~11:00

Alfred Singer National Cancer Institute

S14-05

Roles of Runx transcription factors during immune system development

11:00~11:30

Ichiro Taniuchi RIKEN. Lab for Transcriptional Regulation

Symposium 15

Room E 9:00 ~ 11:30 January 19

S15. Humoral Immunity: DGFI-JSI Joint Session

Chairpersons: Daisuke Kitamura (Research Institute for Biomedical Sciences, Tokyo University of Science)
Wataru Ise (Division of Microbiology and Immunology, Regulation of Host Defense Team
Osaka University, Center for Infectious Disease Education and Research)

\$15-01

Regulation of plasma cell survival and migration to the bone marrow for establishing long-term antibody response

Wataru Ise Center for Infectious Disease Education and Research, Osaka University

S15-02

Memory B and Plasma Cells of the Bone Marrow

9:30~10:00 Andreas Radbruch DRFZ Berlin / Charite University Medicine Berlin

S15-03 The Role of Locality in Humoral Immunity

10:00~10:30 Garnett Kelsoe Duke University

S15-04 Senescence-associated CD4⁺ T cells and autoimmune pathology

10:30~11:00 Yuji Fukushima Kyoto University Graduate School of Medicine

S15-05 Autoantibodies induced by commensal bacteria in the pathogenesis of IgA nephropathy

11:00~11:30 Daisuke Kitamura Research Institute for Biomedical Sciences, Tokyo University of Science

Workshop

○ : Presenter

Program for Workshops

January 17

WS01 Infection immunity 1

15:30 ~ 16:45 Room A

Chairpersons: Tadahiro Suenaga, Miwa Sasai

There are a variety of pathogens that are harmful for human and animal health in the world. These pathogens proliferate in the body while countering the host defenses. Although both innate and acquired immunity are involved in the elimination of the foreign enemies, microorganisms possess various weapons to evade these immune systems. In this session, we will discuss the relationship between immunity and intracellular pathogens such as viruses, malaria protozoa or toxoplasma protozoa as well as extracellular pathogens such as helminths including nematodes or trematodes. In particular, the interaction of these pathogens to immune cell signaling and the immune response and the vaccination against these pathogens will be better understood in this opportunity.

WS01-02-O/P

Immunosuppression by CXCR2+ MDSC-like cells exacerbates defense responses of the central nervous system after viral infection

O Akisawa Satomi¹⁾, Tomohiko Okazaki²⁾, Yukiko Gotoh¹⁾
¹⁾Tokyo Univ., ²⁾Hokkaido Univ.

WS01-05-O/P

A protective role of Regnase-4 in HSV-1 infection in mice

○ Junichi Aoki^{1,2)}, Keiko Yasuda¹⁾, Kotaro Tanaka¹⁾, Osamu Takeuchi¹⁾

¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾Orthopaedic Surgery, Osaka University Graduate School of Medicine

WS01-08-O/P

Functional heterogeneity and clonal alterations of cytomegalovirus-specific T cell response during pregnancy

O Ayumi Taguchi^{1,2)}, Shuhei Sakakibara¹⁾, Fumi Misumi²⁾, Shunsuke Teraguchi³⁾, Takeshi Nagamatsu^{2,4)}, Mari Ichinose²⁾, David Priest¹⁾, Janyerkye Tulyeu¹⁾, Jonas Nørskov Søndergaard^{1,5)}, Takayuki Iriyama²⁾, Yutaka Osuga²⁾, James Wing^{1,5)}

¹⁾WPI Immunology Frontier Research Center, Osaka University, ²⁾Department of Obstetrics and Gynecology, Graduate School of Medicine, The University of Tokyo, ³⁾Faculty of Data Science, Shiga University, ⁴⁾Department of Obstetrics and Gynecology, International University of Health and Wealth, ⁵⁾Center for Infectious Disease Education and Research, Osaka University

WS01-09-O/P

Single-cell transcriptomics revealed the expansion of skin-homing lymphocytes in natural dengue infection one day before defervescence

O Anunya Opasawatchai^{1,2,3,4)}, Jantarika Kumar Arora⁵⁾, Tiraput Poonpanichakul⁶⁾, Natnicha Jiravejchakul⁶⁾, Waradon Sungnak^{3,4,6)}, Denfree Consortium^{**}, Oranart Matangkasombut⁷⁾, Sarah A. Teichmann⁸⁾, Ponpan Matangkasombut^{4,6)}, Varodom Charoensawan^{3,4,5)}

¹⁾Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Japan, ²⁾Department of Oral Microbiology, Faculty of Dentistry, Mahidol University, Thailand, ³⁾Integrative Computational Bioscience (ICBS) Center, Mahidol University, Thailand, ⁴⁾Systems Biology of Diseases Research Unit, Faculty of Science Mahidol University, Thailand, ⁵⁾Department of Biochemistry, Faculty of Science, Mahidol University, Thailand, ⁶⁾Department of Microbiology and Center of Excellence on Oral Microbiology and Immunology, Faculty of Dentistry, Chulalongkorn University, Thailand, ⁸⁾Wellcome Sanger Institute, Wellcome Trust Genome Campus, UK

WS01-12-O/P

Temporal changes in gastrointestinal mucosal immune system during *Plasmodium* Infection

Mariko Kamioka^{1,2)}, Julia Matsuo-Dapaah^{1,3)}, Michelle Sue Jann Lee^{1,4)}, Cevayir Coban^{1,3,4)}

¹⁾Division of Malaria Immunology, Department of Microbiology and Immunology, Institute of Medical Science, University of Tokyo (IMSUT), ²⁾JSPS Research Fellowship for Young Scientists, Japan Society for the Promotion of Science, ³⁾Graduate School of Medicine, The University of Tokyo, ⁴⁾International Vaccine Design Center, Institute of Medical Science, The University of Tokyo (IMSUT)

WS01-14-O/P

CD4+ T cells specific for the Plasmodium falciparum circumsporozoite protein form resident memory population in the liver and may directly kill liver stage parasites in vivo

○ Hannah Gabrielle Kelly¹⁾, Xin (Andy) Gao¹⁾, Patricia Carreira¹⁾, Ines Atmosukarto²⁾, Mireille Lahoud³⁾, Irene Caminschi³⁾, Lynette Beattie⁴⁾, Ian Cockburn¹⁾

¹⁾Department of Immunology and Infectious Disease, John Curtin School of Medical Research, The Australian National University, Canberra, ACT 2601, Australia, ²⁾Lipotek Pty Ltd, Canberra, ACT 2601, Australia, ³⁾Department of Biochemistry and Molecular Biology, Monash Biomedicine Discovery Institute, Monash University, VIC 3800, Australia, ⁴⁾Department of Microbiology and Immunology, Peter Doherty Institute for Infection and Immunity, Parkville, VIC 3010, Australia

WS01-16-O/P

Microbial-ligand independent regulation of lymphopoiesis by NOD1

Chiaki Iwamura^{1,2)}, Toshinori Nakayama¹⁾, Alan Sher²⁾, Dragana Jankovic²⁾
¹⁾Chiba University. ²⁾National Institute of Health

WS01-19-O/P

Unveiling Opisthorchis viverrini Tetraspanins: Key player in Extracellular Vesicle-Mediated Host-Parasite interaction

○ Sujittra Chaiyadet¹¹, Wuttipong Phumrattanaprapin²², Javier Sotillo³³, Michael Smout⁴³, Thewarach Laha²¹, Alex Loukas⁴¹

¹⁾Department of Tropical Medicine, Faculty of Medicine, Khon Kaen University, Thailand, ²⁾Department of Parasitology, Faculty of Medicine, Khon Kaen University, Thailand., ³⁾National microbiology entre, Instituto de salud Carlos III, Madrid, Spain, ⁴⁾Australian Institute of Tropical Health and Medicine, James Cook University, Australia

WS02 Systemic autoimmune diseases

15:30 ~ 16:45 Room B

Chairpersons: Keishi Fijio, Keiko Yasuda

Recent multi-omics analyses have opened-up a new era in the research area of human autoimmune diseases. However, in silico data require support from in vitro and/or in vivo observation to become valuable from the clinical point of view. This session consists of qualified, intensive and sophisticated research topics that took advantage of recent technical innovation, covering systemic autoimmunity represented by systemic lupus erythematosus, Sjogren's syndrome and systemic vasculitides.

WS02-01-O/P

Immunophenotypic Categorization: A New Approach to Systemic Immune-Mediated Diseases

○ Shinji Izuka¹⁾, Toshihiko Komai¹⁾, Takahiro Itamiya¹⁾, Mineto Ota^{1,2)}, Saeko Yamada¹⁾, Yasuo Nagafuchi^{1,2)}, Hirofumi Shoda¹⁾, Kosuke Matsuki³⁾, Kazuhiko Yamamoto⁴⁾, Tomohisa Okamura^{1,2)}, Keishi Fujio¹⁾

¹⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²⁾Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Japan, ³⁾Research Division, Chugai Pharmaceutical Co., Ltd., Yokohama, Kanagawa, Japan., ⁴⁾Laboratory for Autoimmune Diseases, Center for Integrative Medical Sciences, the Institute of Physical and Chemical Research (RIKEN), Japan

WS02-04-O/P

Pathogenetic role of IFN γ producing CD4+T cells in lupus model mice induced by TLR7 agonist imiquimod

O Reona Tanimura, Yuya Kondo, Ryota Sato, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto

Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS02-06-O/P

Identification of a novel age-associated CD4⁺ T cell subset involved in the pathogenesis of systemic lupus erythematosus

○ Manaka Goto¹¹, Hideyuki Takahashi¹¹, Ryochi Yoshida¹¹, Takahiro Itamiya¹.²¹, Masahiro Nakano³.⁴, Kazuyoshi Ishigaki³³, Mineto Ota¹¹, Tomohisa Okamura¹.²¹, Keishi Fujio¹¹

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, ³⁾Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ⁴⁾Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan

WS02-11-O/P

Analysis of patrolling monocytes that drive lupus nephritis

○ Reika Tanaka¹⁾, Yusuke Murakami^{1,2)}, Ryutaro Fukui¹⁾, Shigeru Kakuta³⁾, Kensuke Miyake¹⁾

¹⁾Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, ²⁾Faculty of Pharmacy, Department of Pharmaceutical Sciences & Research Institute of Pharmaceutical Sciences, Musashino University, ³⁾Laboratory of Biomedical Science, Graduate School of Agricultural and Life Sciences, The University of Tokyo

WS	02-13-O/P	The COMMD3/8 complex drives plasmablast differentiation of age-associated B cells in lupus Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Laboratory of Immune Response Dynamics, Immunology Frontier Research Center, Osaka University, Japan, Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Japan, Center for Infectious Disease Education and Research, Osaka University, Japan
WS	02-15-O/P	Single-cell multi-omics analysis identifies two distinct phenotypes of newly-onset MPO-ANCA associated vasculitis Masayuki Nishide ^{1,2,3)} , Masashi Narazaki ^{1,3)} , Atsushi Kumanogoh ^{1,2)} Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine, Department of Immunopathology, World Premier International Research Center Initiative (WPI), Immunology Frontier Research Center (IFReC), Osaka University, Department of Advanced Clinical and Translational Immunology, Osaka University Graduate School of Medicine
WS	02-16-O/P	Immunological signature shared by Adult-onset Still's disease and other autoinflammatory diseases revealed by transcriptome analysis Ikuo Takazawa ¹⁾ , Haruka Tsuchiya ¹⁾ , Takahiro Itamiya ^{1,2)} , Harumi Shirai ¹⁾ , Yumi Tsuchida ¹⁾ , Yasuo Nagafuchi ^{1,2)} , Hirofumi Shoda ¹⁾ , Tomohisa Okamura ^{1,2)} , Keishi Fujio ¹⁾ Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo
WS	02-22-O/P	Signaling pathways via TLR4 are involved in 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, Tsutomu Takeuchi, Yuko Kaneko Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine
WS03	Innate immur	phages and other innate immune cells in homeostasis 15:30 ~ 16:45 Room C Chairpersons: Kenichi Asano, Miyako Tanaka ne cells were originally identified as aggressive white soldiers that attack and eliminate invading pathogens. Today, ablished that they not only serve as our body's first line of defense but also play crucial roles in maintaining and neostasis. Macrophages, in particular, are equipped with a unique machinery known as the inflammasome system,

Innate immune cells were originally identified as aggressive white soldiers that attack and eliminate invading pathogens. Today, it is well established that they not only serve as our body's first line of defense but also play crucial roles in maintaining and restoring homeostasis. Macrophages, in particular, are equipped with a unique machinery known as the inflammasome system, which scrutinizes various stimuli for inflammation. Recent advances in our understanding of inflammasome activation suggest that some inflammasomes do not directly detect molecular patterns but respond to a wide range of perturbations in cytoplasmic homeostasis. This session will discuss the roles played by macrophages and other innate immune cells in disease formation and organogenesis. Novel findings in the mechanisms of inflammasome activation will also be introduced.

MAFB in macrophages suppress inflammation via ALOX15 in Acute Kidney Injury
○ Maho Kanai¹¹, Teppei Nishino¹¹, Akari Kimura¹¹, Toshiaki Usui¹²², Naoki Morito¹²², Michito Hamada¹¹, Satoru Takahashi¹¹
¹⁾ Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, ²⁾ Department of Nephrology, Faculty of Medicine, University of Tsukuba
Clathrin heavy chain regulates NLRP3 inflammasome formation via endocytosis in macrophages — Hung Hiep Huynh ¹⁾ , Fumiyuki Sasaki ¹⁾ , Masumi Shimizu ¹⁾ , Akihiko Yoshimura ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, ²⁾ Keio University School of Medicine
FoxO1 regulates the number of basophils in the peripheral tissues and basophil-dependent allergic inflammation
Junya Ito ¹ , Kensuke Miyake ¹ , Kazufusa Takahashi ¹ , Shigeyuki Shichino ² , Hajime Karasuyama ¹) Jinflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University, Division of Molecula Regulation of Inflammatory and Immune Diseases, Research Institute of Biomedical Sciences, Tokyo University of Science

WS03-0	CD300a immunoreceptor exacerbates acute kidney injury and fibrosis after renal ischemia and reperfusion in mice Hitoshi Koizumi ^{1,2)} , Chigusa Nakahashi-Oda ^{1,4)} , Kazuko Shibuya ^{1,4)} , Akira Shibuya ^{1,3,4)} Department of Immunology, Faculty of Medicine, University of Tsukuba, Doctoral Program in Graduate School of Comprehensive Human Sciences, University of Tsukuba, Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Rakahashi-Oda ^{1,4)} , Viniversity of Tsukuba, Center for Innovative Drug Discovery, University of Tsukuba
WS03-0	Sphingosine-1-phosphate lyase SGPL1 is required for NLRP3 inflammasome activation via the dynamic organization of endoplasmic reticulum and microtubules Fumiyuki Sasaki, Masumi Shimizu, Rimpei Morita Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan
WS03-1	The onset of parturition is delayed in fetal macrophage-deficient mice Sunao Matsuzaka, Haruta Mogami, Yosuke Kawamura, Yu Matsuzaka, Eriko Yasuda, Asako Inohaya, Masahito Takakura, Yoshitsugu Chigusa, Masaki Mandai Department of Gynecology and Obstetrics, Kyoto University Graduate School of Medicine
WS03-1	CD300a immunorecentor evacerbates heart injury and adverse remodeling after myocardial infarction

CD300a immunoreceptor exacerbates heart injury and adverse remodeling after myocardial infarction and reperfusion in mice

Nanako Nishiyama¹⁾, Chiqusa Nakahashi-Oda^{1,3)}, Akira Shibuya^{1,2,3)}, Kazuko Shibuya^{1,3)}

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

WS03-12-O/P

A stress sensor IRE1 α is required for bacterial exotoxin-induced inflammasome activation in tissue-resident macrophages

O Izumi Sasaki¹⁾, Yuri Fukuda-Ohta¹⁾, Shuhei Morita²⁾, Daisuke Okuzaki³⁾, Takashi Kato¹⁾, Koichi Furukawa⁴⁾, Tsuneyasu Kaisho¹⁾

¹⁾Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan, ²⁾First Department of Medicine, Wakayama Medical University, Wakayama, Japan, ³⁾Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ⁴⁾Department of Lifelong Sports and Health Sciences, Chubu University College of Life and Health Sciences, Kasugai, Japan

WS04 Innate immunity

15:30 ~ 16:45 Room D

Chairpersons: Osamu Takeuchi, Shinobu Saijo

Innate immune recognition of pathogen-associated molecular patterns (PAMPs) as well as danger-associated molecular patterns (PAMPs) is mediated by pattern-recognition receptors (PRRs) including Toll-like receptors (TLRs), RIG-I-like receptors (RLRs), NOD-like receptors (NLRs), C-type lectin receptors (CLRs) and cGAS. The activation of the PRR signaling in innate immune cells is responsible for infectious and chronic inflammatory diseases. In this session, we will discuss recent finding in the roles of PRRs and innate immune cells in infectious and inflammatory diseases.

WS04-01-O/P

Microbiome ssRNA as an environmental cue to activate TLR13-dependent tissue-protective programs in CD5L/AIM^{hi} hepatic macrophages

○ Ryota Sato¹¹, Kaiwen Liu¹¹, Takuma Shibata¹¹, Ryutaro Fukui¹¹, Katsuaki Hoshino²¹, Toshikazu Kondo³¹, Toru Miyazaki⁴¹, Tsuneyasu Kaisho⁵¹, Kensuke Miyake¹¹

¹⁾Division of Innate Immunity, The Institute of Medical Science, The University of Tokyo, ²⁾Department of Immunology, Faculty of Medicine, Kagawa University, ³⁾Department of Forensic, Wakayama Medical University, ⁴⁾The Institute for AIM Medicine, ⁵⁾Department of Immunology, Institute of Advanced Medicine

WS04-02-O/P

Fine tuning of TLR9 signaling triggered by CpG DNA-CXCL14 complex is mediated by Immunoglobulin superfamily proteins and scavenger receptors

○ Kosuke Tanegashima¹⁾, Risa Saito^{1,2)}, Riku Takahashi^{1,2)}, Manaka Hasebe^{1,3)}, Takahiko Hara^{1,2,3)}

¹⁾Stem cell project, Tokyo Metropolitan Institute of Medical Science, ²⁾Grad. Sch. of Tokyo Medical and Dental Univ., ³⁾Grad. Sch. Tokyo Metropol. Univ.

WS04-03-O/P	Nucleolus dysfunction-mediated DNA leaking forms innate immune priming under nutrition starvation and ribosomal diseases Ken Takashima, Hiroyuki Oshiumi Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Science, Kumamoto University
WS04-04-O/P	Human Dectin-1 is a ligand of CLEC-2 and regulates lymphatic development Taiki Ito ^{1,2)} , Shojiro Haji ³⁾ , Masamichi Nagae ^{1,2)} , Sho Yamasaki ^{1,2)} Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Immunology Frontier Research Center (IFReC), Osaka University, Department of Medicine and Bioregulatory Science, Graduate School of Medical Sciences, Kyushu University
WS04-05-O/P	TAK1-binding proteins (TAB) 2 and TAB3 are dispensable for TAK1 activation but redundantly required for TLR-induced cytokine production in macrophages Giichi Takaesu ^{1,2,3)} , Tanveer Ali ²⁾ , Osamu Takeuchi ⁴⁾ , Goro Matsuzaki ^{1,2,3)} Trop. Biosp. Res. Ctr., Univ. Ryukyus, ²⁾ Dept. Host Defense, Grad. Sch. Med., Univ. Ryukyus, ³⁾ Adv. Med. Res. Ctr, Univ. Ryukyus., ⁴⁾ Dept. Med. Chem., Grad. Sch. Med., Kyoto Univ.
WS04-06-O/P	Distinct immune cell dynamics correlate with the immunogenicity and reactogenicity of COVID-19 vaccines Takayuki Matsumura, Tomohiro Takano, Ryutaro Kotaki, Yu Adachi, Saya Moriyama, Taishi Onodera, Kazutaka Terahara, Masanori Isogawa, Yoshimasa Takahashi Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases
WS04-07-O/P	The behavioral duality of monocytes depends on the severity of inflammation-A new regulatory mechanism of inflammation by monocytes Masashi Kanayama, Megumi Akiyama, Toshiaki Ohteki Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental Univ.
WS04-08-O/P	Immune checkpoint molecule Tim3 regulates microglial function and the development of Alzheimer's disease pathology (Note: Note: 123,4), Ayshwarya Subramanian 1,2,3,5), Zhuoran Yin 1,2,3), Ahad Khalilnezhad 1,2,3), Yufan Wu 1,2,3,5), Thuoran Yin 1,2,3,5), Thuoran

Danyang He^{1,2,3)}, Dennis J. Selkoe^{1,2,3)}, Aviv Regev⁵⁾, Mario L. Suvà^{5,6)}, Oleg Butovsky^{1,2,3)}, Vijay K. Kuchroo^{1,2,3,5)}

¹⁾Evergrande Center for Immunologic Diseases, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA., ²⁾Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA., 3Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA., 4)Department of Neurology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ⁵Broad Institute of MIT and Harvard, Cambridge, MA, USA., ⁵Department of Pathology and Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA.

WS05 Allergy-1

15:30 ~ 16:45 Room F

Chairpersons: Satoko Tahara-Hanaoka, Kazuki Nagata

Nowadays a growing number of people have developed allergic diseases such as asthma, atopic dermatitis, contact hypersensitivity, allergic rhinitis, and food allergy. Allergic reaction is caused by the cross-talk among the epithelial barrier, microbiota, neurons, innate immunity, and adaptive immunity. Innate immune responses following the barrier dysfunction drive antigen-specific and non-specific allergic responses. Moreover, local allergic inflammation causes systemic allergic disorders. Despite the extensive studies, the fundamental principles of allergic reactions remained to be fully elucidated. In this session, we would like to discuss allergic reactions inclusively, focusing on the barrier function, neurons, innate immunity, adaptive immunity, immune regulation, and their application for medical treatments.

WS05-01-O/P

Neonatal skin dysbiosis and altered Th2/Th17 signaling are associated with the development of infantile atopic dermatitis

○ Tomoka Ito¹⁾, Reika Aoyama¹⁾, Seitaro Nakgawa^{1,2)}, Yuriko Yamazaki^{1,3)}, Naohiro Inohara⁴⁾, Yoko Ichikawa⁵⁾, Naoki Shimojo⁶⁾, Takashi Sugihira^{1,2)}, Manabu Fujimoto^{1,7)}, Yumi Matsuoka Nakamura^{1,2,3)}

¹⁾Department of Dermatology, Graduate School of Medicine, Osaka University, ²⁾Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, 3)Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, ⁴⁾Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, ⁵⁾Ichikawa Clinic, ⁶⁾Center for Preventive Medical Sciences, Chiba University, 7) Cutaneous Immunology, Immunology Frontier Research Center, Osaka University

٧	WS05-02-O/P	Staphylococcus aureus δ -toxin present on skin promotes the development of food allergy in an IL-1 α -dependent manner in murine model
		Hiromichi Yamada ^{1,2)} , Ayako Kaitani ¹⁾ , Kumi Izawa ¹⁾ , Tomoaki Ando ¹⁾ , Shino Uchida ¹⁾ , Risa Yamamoto ¹⁾ , Akie Maehara ¹⁾ , Shun Toriumi ^{1,2)} , Naoko Negishi ¹⁾ , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Jiro Kitaura ¹⁾ ¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾ Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine
V	WS05-04-O/P	Psychological stress enhances scratching behavior in atopic dermatitis by increasing sensitivity of sensory nerves
		Kei Nagao ^{1,2}), Soichiro Yoshikawa ¹), Syuhei Sano ¹), Toshiro Takai ³), Sachiko Miyake ³) Department of Immunology, Juntendo University Graduate School of Medicine, Department of Cellular Physiology Okayama University Graduate School of Medicine, Altopy (Allergy) Research Center, Juntendo University Graduate School of Medicine
٧	WS05-06-O/P	Roles of GATA3 in LPS-induced cytokine expression in mast cells
		Yuki Goto, Kazuki Nagata, Hiromi Takeuchi, Chiharu Nishiyama Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science
٧	WS05-11-O/P	miR-451a containing EVs suppress delayed-type hypersensitivity by regulating IL-17A producing T cells
		Takanobu Yoshida ^{1,2)} , Ken Takashima ¹⁾ , Hiroyuki Oshiumi ¹⁾ Department of Immunology, Faculty of Life Sciences, Kumamoto University, ²⁾ Department of Pediatrics, Faculty of Life Sciences, Kumamoto University
V	WS05-13-O/P	GATA3 dysfunction in follicular regulatory T cells may underlie selective dysregulation of type 2 humoral immunity in $Foxp3^{A384T}$ mice
		Shiki Masumoto, Akira Nakajima, Shohei Hori Graduate School of Pharmaceutical Sciences, The University of Tokyo
٧	WS05-17-O/P	Comprehensive analysis of endotype-dependent efficacy of antibody therapies in asthma
		Hinami Kawahata ¹⁾ , Takuya Yashiro ¹⁾ , Kazuyo Moro ^{1,2)} Discrete Fig. 10, Kazuyo Horo ^{1,2)} Discrete Fig. 10, Kazuyo Horo ^{1,2)} Hinami Kawahata ¹⁾ , Takuya Yashiro ¹⁾ , Kazuyo Moro ^{1,2)} Discrete Fig. 10, Kazuyo Horo ^{1,2} Discret
٧	VS05-18-O/P	In vitro and in vivo efficacy of Fab fragments against human IgE $C\epsilon 2$ in anaphylactic reactions
		O Hexing Wang ¹⁾ , Tomoaki Ando ¹⁾ , Toshiaki Maruyama ²⁾ , CJ Okumura ²⁾ , Kumi Izawa ¹⁾ , Ayako Kaitani ¹⁾ , Akie Maehara ¹⁾ , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Jiro Kitaura ¹⁾
		¹⁾ Atopy (Allergy) research center, Juntendo University Graduate School of Medicine, ²⁾ Abwiz Bio Inc.
WS	06 Cytokii	nes and chemokines 15:30 ~ 16:45 Room F
	0 1 1:	Chairpersons: Minako Ito, Rimpei Morita
	and tissue, an	I chemokines are highly diverse signaling molecules that are released from various cells regardless of cell type d have several functions on differentiation, activation, and trafficking of cells. In this workshop, we aim to discuss the of cytokines and chemokines in various pathophysiological models of different immune cells and organs.
V	WS06-06-O/P	Absence of CCL5/CCR5 axis exaggerates thrombus formation through reduced uPA, tPA and VEGF expression in murine DVT model
		 Mizuho Nosaka, Yuko Ishida, Yumi Kuninaka, Akiko Ishigami, Hiroki Yamamoto, Akihiko Kimura, Naofumi Mukaida, Toshikazu Kondo Department of Forensic Medicine, Wakayama Medical University
٧	WS06-07-O/P	CXCL12 derived from intestinal fibroblasts prevents tumorigenesis through modulation of epithelial cell
		metabolism
		O Mayu Yagita ¹⁾ , Hisako Kayama ²⁾ , Atsushi Kumanogoh ¹⁾ , Kiyoshi Takeda ²⁾ Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, ²⁾ Laboratory of Immune Regulation, Department of Microbiology and Immunology, Osaka University Graduate School of Medicine

WS06-08-O/P	Identification of the origin and function of soluble ST2 in asthma Pei-Chi Lo ^{1,2,4)} , Yasutaka Motomura ^{1,2,4)} , Kazuyo Moro ^{1,2,3,4)} 1)Osaka University Immunology Frontier Research Center (IFReC), ²⁾ Graduate School of Medicine, Osaka University, ³⁾ Graduate School of Frontier Biosciences, Osaka University, ⁴⁾ RIKEN IMS
WS06-14-O/P	Adrenergic control of lymphocyte recirculation via formation of heteromeric complexes between the β ₂ -adrenergic receptor and chemokine receptors Akiko Nakai ^{1,2)} , Kazuhiro Suzuki ^{1,2,3)} Taboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, Center for Infectious Disease Education and Research, Osaka University
WS06-15-O/P	IL-18: immune mediator from maternal uterus to placental development O Hajime Ino ^{1,2)} , Yasuyuki Negishi ^{1,2)} , Yumi Horii ^{1,2)} , Eri Koike ¹⁾ , Richard A. Flavell ³⁾ , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, ²⁾ Department of Obstetrics and Gynecology, Nippon Medical School, ³⁾ Section of Immunobiology, Yale University School of Medicine
WS06-20-O/P	Identification and characterization of putative enhancer regions that direct <i>II6</i> transcription in murine macrophages Norisuke Kano, Takeo Miki, Yurina Uehara, Daisuke Ori, Taro Kawai Nara Institute science and technology
WS06-24-O/P	A Computational model of IL-6-dependent disease progression in arthritis model (F759) mice Hiroki Tanaka ¹ , Reiji Yamamoto ^{1,2} , Satoshi Yamada ³ , Toru Atsumi ¹ , Kaoru Murakami ¹ , Ari Hashimoto ² , Seiichiro Naito ¹ , Akihiko Yoshimura ⁴ , Daisuke Kamimura ¹ , Shintaro Hojyo ¹ , Shigeru Hashimoto ¹ , Masaaki Murakami ^{1,5,6}) Institute for Genetic Medicine, Hokkaido University, Faculity of Medicine and Graduate School of Medicine, Hokkaido University, Faculity of Information science and Engneering, Okayama University of Science, School of Medicine, Keio University, National Institute for Quantam and Radiological Science and Techlonogy, National Institute for Physiological Science, National Institute of Natural Science
WS06-27-O/P	Fibroblast growth factor 18 stimulates the proliferation of hepatic stellate cells, thereby inducing liver fibrosis Takao Seki ¹ , Yuichi Tsuchiya ² , Shigeyuki Shichino ³ , Takashi Nishina ¹ , Soh Yamazaki ¹ , Kouji Matsushima ³ , Hideo Yaqita ⁵ , Ko Okumura ⁶ , Minoru Tanaka ⁴ , Hiroyasu Nakano ¹

¹⁾Department of Biochemistry, Faculty of Medicine, Toho University, ²⁾Department of Biochemistry, Faculty of Pharmaceutical Science, Toho University, 3) Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, 4)Department of Regenerative Medicine, Research Institute, National Center for Global Health and Medicine, 5)Department of Immunology, Faculty of Medicine and Graduate School of Medicine, Juntendo University, 6)Atopy Research Center, Faculty of Medicine and Graduate School of Medicine, Juntendo University

WS07 Tolerance and immune suppression-1

15:30 ~ 16:45 Room G

Chairpersons: Takashi Sekiya, Noriko Komatsu

Identification of various cell types and molecules involved in tolerance and immune suppression has innovated the therapies against intractable inflammatory diseases and cancers. Although the extensive researches in the field of tolerance and immune suppression have been fueling the modern therapies, represented by the development of cell-based therapies and biologics, there still remains an infinite space for their advancement. This session, focusing on tolerance and immune suppression, covers hot topics in this research area, as diverse as the functions of immune checkpoint molecules, intracellular regulatory events, development of a novel experimental strategy, and novel functions of immune regulatory cells. All of the works in this session have potentials to further advance the current medicine, thus, active discussion is welcomed.

WS07-01-O/P

Regulatory T cells tonically inhibit spontaneous activation of naturally arising memory-phenotype CD4⁺ T lymphocytes

○ Jing Li, Ziying Yang, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Naoto Ishii, Takeshi Kawabe Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine

WS07-02-O/P	Inhibition of AKT-mTOR signaling contributes to Foxp3-dependent induction of endogenous <i>Foxp3</i> transcription <i>in vivo</i>
	 Yuxi Wei, Hinako Ago, Shotaro Funatsu, Ryuichi Murakami, Akira Nakajima, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS07-03-O/P	Single cell suppression profiling of human regulatory T cells Jonas Nørskov Søndergaard ¹⁾ , Janyerkye Tulyeu ¹⁾ , David Priest ²⁾ , Shimon Sakaguchi ^{3,4)} , James B Wing ^{1,2)} Human Immunology Team, Center for Infectious Disease Education and Research (CIDER), Osaka University, Suita, Japan, ²⁾ Laboratory of Human Immunology (Single Cell Immunology), WPI Immunology Frontier Research Center (IFReC), Osaka University, Suita, Japan, ³⁾ Laboratory of Experimental Immunology, WPI Immunology Frontier Research Center (IFReC), Osaka University, Suita, Japan, ⁴⁾ Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University, Kyoto, Japan
WS07-04-O/P	Runx3/Cbfβ regulates Rorγt ⁺ Treg differentiation thought Rorγt ⁺ Thetis APCs in the gut Chihiro Ogawa, Chengcheng Zou, Ichiro Taniuchi RIKEN Center for Integrative Medical Sciences, Laboratory for Transcriptional Regulation
WS07-05-O/P	MHC class II limits microbiota-dependent activation of colonic CD8 T cells in a CD4 T cell- and LAG-3-dependent manner Tomoya Sengiku ¹ , Masato Kubo ^{2,3} , Shohei Hori ¹ , Ruka Setoguchi ¹ Biomedical Science, Tokyo University of Science, ³ Research Center for Integrative Medical Science (IMS), RIKEN Yokohama Institute
WS07-06-O/P	A novel mechanism for LAG-3-mediated cell-extrinsic suppression of CD4 ⁺ T cell activation through trogocytosis of MHC class II Ei Wakamatsu, Hiroaki Machiyama, Hiroko Toyota, Masae Furuhata, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka Tokyo Medical Univ.
WS07-07-O/P	Mbd3 facilitates thymic regulatory T precursor cell development and Treg lineage commitment by altering the Treg-specific CD25 enhancer landscape — Jia Long ^{1,2)} , Kenji Ichiyama ^{1,2)} , Shimon Sakaguchi ^{1,2,3)}

January 18

WS08 Tumor immunity-1; Effector cell therapy

1)Immunology Frontier Research Center, 2)Osaka Univ., 3)Kyoto Univ.

14:05 ~ 15:20 Room A

Chairpersons: Hiroaki Ikeda, Naoko Ohtani

The spectacular results of CAR-T cell therapy for blood cancers have surprised us, but on the other hand, CAR-T has not been shown to be effective against solid tumors. Why is CAR-T ineffective against solid tumors? What should I do to make it work? Many of the topics in this WS are related to CAR-T, and we would like to discuss all the strategies to overcome solid cancers. We also discuss not only TCR-T, which has been shown to be effective against some solid tumors in the past, but also how to generate CD8-positive killer T cells (CTL) with high antitumor activity. Of course, NK cells and NKT cells must not be forgotten as important effector cell therapy tools. Let's all discuss what we can do to defeat solid cancers using effector cell therapy.

WS08-01-O/P	Elucidating Tissue-Specific Metabolisms in Chimeric Antigen Receptor T-Cell Therapy Ari Itoh-Nakadai ^{1,2)} , Mariko Murasawa-Tomizawa ¹⁾ , Masashi Matsuda ³⁾ , Haruhiko Koseki ³⁾ , Fumihiko Ishikawa ¹⁾ Ilaboratory for Human Disease Models, IMS, Riken, Yokohama, Japan, Phygiene & public Health, Nippon Medical School, Tokyo, Japan, Developmental Genetics, IMS,RIKEN, Yokohama, Japan
WS08-02-O/P	Trogocytosis controlled CAR-T cells show enhanced anti-tumor activity Atsutaka Minagawa, Shin Kaneko Kyoto University iPS Cell Research and Application

WS08-03-O/P	Genetically engineered induced pluripotent stem cell-derived T cells with drastically improved anti-tu	ımoı
	efficacy against solid tumor	
	Akihiro Ishikawa, Masazumi Waseda, Tomoko Ishii, Yohei Kawai, Shin Kaneko Kaneko-Lab, Center for iPS Cell Research and Application, Kyoto University	
WS08-05-O/P	Dissecting the roles of STAT3 and STAT5 in antitumor T cells	
	Haosong Zhang ^{1,2,3)} , Zhiwen Wu ²⁾ , Yuki Kagoya ^{1,2)} Division of Tumor Immunology, Institute for Advanced Medical Research, Keio University School of Medicine, Division of Immune Resp Aichi Cancer Center Research Institute, Department of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Immune Resp Aichi Cancer Center Research Institute, Department of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Immune Resp Aichi Cancer Center Research Institute, Division of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Immune Resp Aichi Cancer Center Research Institute, Division of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Immune Resp Aichi Cancer Center Research Institute, Division of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Immune Resp Aichi Cancer Center Research Institute, Division of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine, Division of Cancer Diagnostics and Division of	
WS08-06-O/P	Efficient activity of CAR T cell targeting pMHC depends on binding affinity	
	Hiratsuka Hiroyuki ¹⁾ , Yasushi Akahori ¹⁾ , Shingo Maeta ²⁾ , Daisuke Ejima ²⁾ , Yuriko Egashira ²⁾ , Atsushi Fukunaga ²⁾ , Hiroshi Shiku ^{1,3)} ¹⁾ Department of Personalized Cancer Immunotherapy, Mie University graduate School of medicine, ²⁾ Bio-Diagnostic Reagent Technology C	
	Sysmex Corporation, ³⁾ deceased 4 September 2022	· orritor,
WS08-07-O/P	Development of HLA-A2 restricted GPC3 TCR-T cells for cancer immunotherapy	
	 Manami Shimomura¹⁾, Kayoko Shoda¹⁾, Toshiaki Yoshikawa¹⁾, Toshihiro Suzuki¹⁾, Kazunobu Ohnuki¹⁾, Kaho Takeichi²⁾, Sachiko Okamoto²⁾, Tetsuya Nakatsura¹⁾ National Cancer Center, EPOC, Cancer immunology, ²⁾Takara Bio. Inc. 	
WS08-09-O/P	Evaluation of tumor infiltrating lymphocytes (TILs)-derived MR1 restricted TCRs of breast cancer patie Abdul Hayee ¹⁾ , Eiji Kobayashi ¹⁾ , Hiroshi Hamana ²⁾ , Satoshi Yamaguchi ¹⁾ , Ha Thi Viet My ¹⁾ , Tatsuhiko Ozawa ¹⁾ , Hiroyuki Kishi ¹⁾	ents
	¹⁾ Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, ²⁾ Thyas Co., Ltd., Kyoto, Japan	
VS09 Infec	tion immunity 2 14:05 ~ 15:20 Room	m B
	Chairpersons: Saya Moriyama, Hideo Neç	_
interaction	y virus infection and HIV infection are huge global health issues. To protect against viral infection, understanding of virus-host immune responses and developing therapeutics and preventatives are essential. This session will fory virus infections such as SARS-CoV-2 and influenza virus, HIV, and therapeutics/vaccines.	-
WS09-01-O/P	A bivalent SARS-CoV-2 mRNA vaccine encoding the SARS-CoV-2 receptor-binding domain broadly protects mice against infection with various SARS-CoV-2 omicron variants Ryuta Uraki ^{1,2} , Masaki Imai ^{1,2} , Mutsumi Ito ² , Seiya Yamayoshi ^{1,2} , Maki Kiso ² , Nao Jounai ³ , Kazuki Miyaji ³ , Kiyoko Iwatsuki-Horimoto ² , Fumihiko Takeshita ³ , Yoshihiro Kawaoka ^{1,2,4}) National Center for Global Health and Medicine, ² The University of Tokyo, ³ Daiichi Sankyo Co., Ltd., ⁴ University of Wisconsin-Madison	
WS09-03-O/P	Understanding of SARS-CoV-2 pathogenicity in COVID-19 cynomolgus macaque model and considera	ition
	of its reinfection; contribute to the vaccine development — Emiko Urano, Tomotaka Okamura, Yasuhiro Yasutomi National Institutes of Biomedical Innovation, Health and Nutrition	
WS09-06-O/P	Interclonal B-cell competition for SARS-CoV-2 spike receptor-binding site limits cross-neutralizing	
	memory B cell reactivation	
	Yu Adachi, Ryutaro Kotaki, Saya Moriyama, Keisuke Tonouchi, Taishi Onodera, Kazutaka Terahara, Tomohiro Tak Ayae Nishiyama, Takayuki Matsumura, Masanori Isogawa, Yoshimasa Takahashi Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Japan	kano,
WS09-08-O/P	Comprehensive analysis of nasal IgA antibodies induced by intranasal administration of the SARS-Co spike protein	V-2
	Nobuyuki Kurosawa ¹⁾ , Hideki Tani ²⁾ , Seiichi Koike ¹⁾ , Masaharu Isobe ¹⁾ "University of Toyama, ²⁾ Toyama Institute of Health	

WS09-09-O/P	Molecular basis of SARS-CoV-2 spike escape from HLA-A*24:02-restricted T cell receptor
	○ Chihiro Motozono ¹⁾ , Aaron Wall ²⁾ , Mako Toyoda ¹⁾ , Hiroshi Hamana ²⁾ , Keiko Udaka ^{3,4)} , Pierre J Rizkallah ²⁾ , Hiroyuki Kishi ²⁾ , Andrew K Sewell ²⁾ , Takamasa Ueno ¹⁾
	¹⁾ Kumamoto University, Joint research center for Human Retrovirus infection, Division of Infection and Immunity, ²⁾ Cardiff University, School of Medicine, Division of Infection and Immunity, ³⁾ Toyama University, Academic Assembly, Faculty of Medicine, Department of Immunology, ⁴⁾ Kochi University, Department of Immunology
WS09-14-O/P	ARNAX is a desirable adjuvant for a prophylactic vaccine against COVID-19 to enhance antigen-specific
	CD4 ⁺ and CD8 ⁺ T cell responses and neutralizing antibody induction
	○ Tomomi Kawakita ^{1,2)} , Toshiki Sekiya ^{2,3,4)} , Yayoi Kameda ⁵⁾ , Naoki Nomura ^{3,6)} , Marumi Ohno ^{2,3)} , Chimuka Handabile ^{2,3)} Masashi Shingai ^{1,2,3,4)} , Yasuhiko Suzuki ^{2,5)} , Hiroshi Kida ^{1,2,3,4)} , Misako Matsumoto ^{1,7,8)} , Tsukasa Seya ^{1,7,8)}
	¹⁾ Division of Vaccine Immunology, International Institute for Zoonosis Control, Hokkaido University, ²⁾ Institute for Vaccine Research and Development (HU-IVReD), Hokkaido University, ³⁾ Division of Biologics Development, International Institute for Zoonosis Control, Hokkaido University, ⁴⁾ International Collaboration Unit, International Institute for Zoonosis Control, Hokkaido University, ⁵⁾ Division of Bioresources, International Institute for Zoonosis Control, Hokkaido University, ⁶⁾ Division of International Research Promotion, International Institute for Zoonosis Control, Hokkaido University, ⁷⁾ Department of Vaccine Immunology, Graduate School of Medicine, Hokkaido University, ⁸⁾ Nebuta Research Institute for Life Sciences, Aomori University
WS09-22-O/P	High levels of Gas6 induced by cellular senescence in aged mice cause severe infections
	○ Yukie Kure, Takehiko Shibata
	Tokyo Medical University

WS10 Effector differentiation and function of T cells

Toshio Kanno, Yusuke Endo, Keisuke Miyako

Kazusa DNA Research Institute, Laboratory of Medical Omics Research

WS09-23-O/P

14:05 ~ 15:20 Room C

of

Chairpersons: Tadashi Yokosuka, Eri Ishikawa

T cell activation is triggered by TCR-MHC-peptide binding, and small structural changes in the TCR/CD3 complex are transmitted to the cytoplasm as specific signal transductions. The first kinase Lck phosphorylates TCR/CD3 complexes, followed by activation and assembly of downstream enzymes and adapter proteins. In this cascade, TCR signaling crosstalks with those by various costimulatory and coinhibitory receptors, and further overlaps with glucose, amino acid, and lipid metabolism pathways, modifying the output more complex and diverse. Innate T cells are known to recycle certain receptors used in innate immunity. These receptors coordinate T-helper differentiation, and some of them function after effector differentiation. Through 8 lectures (6-minute talks and 2-minute discussions) and 19 posters, we look forward to active participation and discussion.

Modulation of lipid metabolism by regulating SCD2 activation induced augmentation of anti-viral

WS10-02-O/P CD4/CD8 coreceptor binding to MHCs positively regulate CAR-T cell response via translocation of Lck into **CAR** microclusters ○ Hiroaki Machiyama¹⁾, Ei Wakamatsu¹⁾, Arata Takeuchi¹⁾, Hitoshi Nishijima¹⁾, Maksim Mamonkin²⁾, Malcolm K Brenner²⁾, Tadashi Yokosuka¹⁾ ¹⁾Department of Immunol, Tokyo Medical University, ²⁾Center for Cell and Gene Therapy, Baylor College of Medicine Rap1-GAPs Rasa3 and Sipa1 are required for pulmonary transit and egress from the lymph nodes in T WS10-08-O/P cells Shunsuke Horitani, Yoshihiro Ueda, Yuji Kamioka, Naoyuki Kondo, Makoto Naganuma, Tatsuo Kinashi Kansai Medical Univ. WS10-09-O/P miRNA-200c-3p controls alpha4beta7 integrin-mediated T-cell adhesion and migration Khwanchanok Mokmued, Gideon Obeng, Eri Matsuo, Arong Gaowa, Motomu Shimaoka, Eun Jeong Park Mie University Graduate School of Medicine

WS10-13-O/P	CD47 promotes peripheral T cell survival by preventing dendritic cell–mediated T cell necroptosis
	O Satomi Komori ¹⁾ , Yasuyuki Saito ²⁾ , Tania Afroj ²⁾ , Tomoko Takai ¹⁾ , Okechi S Oduori ¹⁾ , Takenori Kotani ²⁾ , Yoji Murata ²⁾ , Takashi Matozaki ¹⁾
	¹⁾ Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ²⁾ Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine
WS10-14-O/P	Epitranscriptomic shaping of signal transduction controls the development, activation and survival of T cells
	○ Taku Kureha, Vigo Heissmeyer Ludwig-Maximilians-Universität in Munich
WS10-16-O/P	Stress-induced glucocorticoids exacerbate inflammatory diseases by promoting Th17 cell differentiation Akihiro Shimba ¹⁾ , Koichi Ikuta ²⁾ Department of Human Health Sciences, Graduate School of Medicine, Kyoto University, ²⁾ Laboratory of Immune Regulation, Department of Virus Research, Institute for Life and Medical Sciences, Kyoto University
WS10-26-O/P	Sulfated bile acid is a self-antigen for MAIT cells required for their development and maintenance
	Emi Ito ^{1,2)} , Ami Takeyama ^{1,2)} , Eri Ishikawa ^{1,2)} , Sho Yamasaki ^{1,2)} ¹⁾ Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ²⁾ Laboratory of Molecular Immunology, Immunology, Frontier Research Center, Osaka University, Suita, Japan
WS10-27-O/P	An unconventional death: Impact of necroptotic cell death machinery on mucosal-associated invariant T cell abundance
	Timothy Patton ¹⁾ , Zhe Zhao ¹⁾ , Nazli Somuncuoglu ¹⁾ , Eleanor Eddy ¹⁾ , Huimeng Wang ¹⁾ , Jeremy Le ¹⁾ , Sidonia B G Eckle ¹⁾ , Michael N T Souter ¹⁾ , James McCluskey ¹⁾ , Zhenjun Chen ¹⁾ , Kate E Lawlor ^{2,3,4,5)} , Alexandra J Corbett ¹⁾ Department of Immunology and Microbiology, University of Melbourne at the Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, ²⁾ Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Department of Molecular and Translational Science, Monash University, Clayton, Australia, ³⁾ Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, ⁴⁾ Department of Medical Biology, University of Melbourne, Parkville, Australia,, ⁵⁾ Department of Molecular and Translational Science, Monash University, Clayton, Australia
WS11 Cellu	lar basis for the development of pathogenic or tissue-resident macrophages
	14:05 ~ 15:20 Room D Chairpersons: Satoshi Ishido, Kanako Shimizu
poses a thr would disco Furthermor	es are key cellular components for maintenance of immune system. Dysregulated development of macrophages eat to us through the onset of degenerative diseases (e.g. autoimmune diseases, osteoporosis). In this session, we also about what of aberrant development is related to the disease, what is cellular basis behind the disease onset. e, how are tissue-resident macrophages maintained in immune system will be discussed. The presentation and could fill the gaps in "Macrophage biology".
WS11-01-O/P	Identification of osteal macrophages subset with pathological function in bone as a potential target for treatment of postmenopausal osteoporosis Alaa Terukawa, Yoshio Nishida, Norimasa Iwasaki
	Department of Orthopedic Surgery. School of Medicine, Hokkaido University
WS11-02-O/P	PCBP1 acts as a regulator of CCL2 expression in macrophages to induce recruitment of monocyte-derived
	macrophages into the inflamed colon Nobuyuki Onai ¹⁾ , Xinquan Yang ¹⁾ , Toshiki Yabe-Wada ¹⁾ , Jia Han ²⁾ , Fumiji Saito ¹⁾ , Chie Ogasawara ¹⁾ , Sohsuke Yamada ²⁾ Department of Immunology, Kanazawa Medical University, Department of Pathology and Laboratory Medicine, Kanazawa Medical University

Polarization of M2 macrophages and development of renal fibrosis are caused by transglutaminase, a protein cross-linking enzyme

O Hideki Tatsukawa, Yoshiki Shinoda, Kiyotaka Hitomi Cellular Biochemistry Lab., Graduate School of Pharmaceutical Sciences, Nagoya University

WS11-03-O/P

WS11-05-O/P	EGR2 plays a pivotal role in the differentiation of Ly6Chi monocytes into fibrosis-promoting macrophages in non-alcoholic steatohepatitis Ayaka Iwata, Natsuki Shibata, Kenichi Asano, Masato Tanaka Laboratory of Immune Regulation, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences
W511-10-O/P	RANKL-expressing cells in the primary ossification center functions as an osteoclast niche during early bone marrow development Eriko Sumiya ^{1,2)} , Shinichiro Sawa ²⁾ University of Tokyo, ²⁾ Kyushu University
WS11-11-O/P	Identification of CSF1-producing cells required for the maintenance of intestinal macrophages Daichi Nonaka ¹⁾ , Soichiro Yoshida ¹⁾ , Eriko Sumiya ²⁾ , Shinichiro Sawa ¹⁾ Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, Popartment of Orthopedic Surgery, Faculty of Medicine, The University of Tokyo, Tokyo, Japan
WS11-14-O/P	Characterization of bone marrow-derived macrophages induced in a CSFRs-independent but TREM2-dependent manner Shin-ei Matsumoto, Hiromitsu Hara Department of Immunology, Kagoshima University Graduate School of Medical and Dental Sciences
WS11-17-O/P	Development of a novel VeDTR mice for labelling and removal of alveolar macrophages Yuki Nakayama, Masahiro Yamamoto Department of Infectious Diseases, Research Institute for Microbial Diseases, Osaka University, Japan

WS12 Autoimmunity in arthritis and fibrosis

of Tokyo, Tokyo, Japan

14:05 ~ 15:20 Room E

Chairpersons: Shinsuke Yasuda, Akemi Sakamoto

In the research field of systemic autoimmune diseases including rheumatoid arthritis, interaction between immune cells and resident non-immune cells increasingly draw attention of researchers as well as physicians. Behavior of fibroblasts in rheumatoid arthritis as well as pulmonary fibrosis has also now recognized to be affected by immune cells and cytokines/growth factors in the microenvironment. In the current workshop, outstanding researchers will discuss from small molecules like transcription factors and MHC to T cell subsets, myeloid cells, and fibroblasts that participate in antigen presentation, arthritis and fibrosis.

WS12-01-O/P	Function of ectopic MHC class II expression on non-immune cells in immune response Wataru Nakai ^{1,2)} , Yuta Shimizu ^{1,2)} , Masako Kohyama ^{1,3)} , Hisashi Arase ^{1,2,3)} Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Regulation of Host Defense Team, Center for Infectious Disease Education and Research, Osaka University
WS12-05-O/P	Synovial regulatory T cells expressing ST2 deteriorate joint inflammation Koto Hattori ¹⁾ , Shigeru Tanaka ¹⁾ , Jun Tamura ¹⁾ , Keishi Etori ¹⁾ , Steven F. Ziegler ²⁾ , Hiroshi Nakajima ¹⁾ Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, ²⁾ Immunology Program, Benaroya Research Institute
WS12-07-O/P	Parsing synovial pathology related to treatment resistance in Japanese rheumatoid arthritis patients by single-cell analysis O Risa Yoshihara ¹⁾ , Haruka Tsuchiya ¹⁾ , Yasunori Omata ²⁾ , Kazuyoshi Ishigaki ³⁾ , Takahiro Itamiya ^{1,4)} , Hiroaki Harada ¹⁾ , Hirofumi Shoda ¹⁾ , Kazuhiko Yamamoto ³⁾ , Sakae Tanaka ²⁾ , Tomohisa Okamura ⁴⁾ , Keishi Fujio ¹⁾

¹⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²⁾Department of Orthopaedic Surgery, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ³⁾Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, ⁴⁾Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University

WS12-08-O/P	Dysregulated <i>NUB1</i> and Neddylation Enhances Rheumatoid Arthritis Fibroblast-Like Synoviocyte Inflammatory Responses via NF-κB Pathway
	 Sho Sendo^{1,2)}, Camilla R.L. Machado¹⁾, David L Boyle¹⁾, Gary S Firestein¹⁾ ¹⁾University of California, San Diego, ²⁾Kobe University Hospital
WS12-14-O/P	Myeloid-derived suppressor cells from the inflamed joints of arthritic SKG mice differentiate into osteoclasts and exacerbate arthritis
	Alfonso del Peral Fanjul ¹⁾ , Sho Sendo ¹⁾ , Yoshikazu Fujikawa ¹⁾ , Takumi Nagamoto ¹⁾ , Hirotaka Yamada ¹⁾ , Akio Morinobu ^{1,2)} , Jun Saegusa ¹⁾ ¹⁾ Kobe University Graduate School of Medicine Department of Rheumatology and Clinical Immunology, ²⁾ Department of Rheumatology and Clinical Immunology, Kyoto University Graduate School of Medicine
WS12-15-O/P	Differential TCR affinities for self antigens between Treg and arthritogenic Th17 cells shape the functional imbalance that cause autoimmune arthritis
	Yusuke Takeuchi ^{1,2)} , Daiya Ohara ¹⁾ , Hitomi Watanabe ¹⁾ , Gen Kondoh ¹⁾ , Akio Morinobu ²⁾ , Keiji Hirota ¹⁾ ¹⁾ Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, ²⁾ Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University
WS12-17-O/P	Identification of ETS1 as the common activator for polarization of tissue-remodeling fibroblasts Noriko Komatsu ¹⁾ , Minglu Yan ¹⁾ , Masayuki Tsukasaki ²⁾ , Hiroshi Takayanagi ¹⁾ Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan
WS12-20-O/P	TNFα-induced adipose-related protein (TIARP) suppresses the pathogenesis of bleomycin-induced pulmonary fibrosis Haruka Miki, Ayaka Miyamoto, Hiroto Tsuboi, Fumika Honda, Ayako Oyama, Saori Abe, Ayako Kitada, Hiromitsu Asashima, Yuya Kondo, Isao Matsumoto Department of Rheumatology, Institute of Medicine, University of Tsukuba
WS13 Tole	rance and Immune suppression-2 14:05 ~ 15:20 Room F Chairpersons: Naganari Ohkura, Ruka Setoguchi
critical for T cell dev	esponses are controlled by various mechanisms of tolerance and immune suppression. These mechanisms are the maintenance of homeostasis. Here in this workshop, we will discuss new molecular mechanisms of regulatory elopment and differentiation as well as other novel mechanisms of immune suppression. Each oral presentation will an 8-minute talk and a 2-minute discussion. We invite you to join us for an active discussion of all oral and poster
WS13-01-O/P	Overexpression of BATF enhances proliferative and suppressive activities of Treg cells in vivo Kohta Matsuura, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS13-02-O/P	Preferential Induction of Regulatory T Cells by Ubiquitinated MHC II Yuko Kozono, Baicheng Fan, Satoshi Ueha, Haruo Kozono

Research Institue for BioMedical Sciences, Tokyo University of Sciences Oral tolerance inhibits DTH in the sensitization phase by Treg-mediated suppression of DC functions in skin dLNs

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

The partment 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), Singapore

WS13-03-O/P

WS13-04-O/P	Temporal and spatial dynamics of immune cells in cytometry and Single-cell RNA sequencing Xin Hu ¹ , Weitao Que ^{2,3} , Yifang Shui ² , Masayuki Fujin National Research Institute for Child Health and Development, ² The Hospital, Shanghai Jiao Tong University School of Medicine		
WS13-05-O/P	in psoriasis? Kentaro Ohko ¹⁾ , Kozo Nakai ¹⁾ , Thomas McCormick ²⁾ , I Department of Dermatology, Kochi Medical School, ² Department of	a targetable mechanism for hyper-adhesive monocytes Kevin Cooper ^{2,3)} f Dermatology, Case Western Reserve University, ³⁾ University Hospitals	
WS13-06-O/P	Foxp3 ^{A384T} mutation represses <i>Myc</i> transcription w effector Treg cells	Cleveland Medical Center Foxp3 ^{A384T} mutation represses <i>Myc</i> transcription without globally affecting chromatin accessibility in effector Treg cells	
	Suzu Kawagoe, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Ph	narmaceutical Sciences, The University of Tokyo	
WS14 Aller	rgy-2	14:05 ~ 15:20 Room G Chairpersons: Tomoaki Ando, Chiharu Nishiyama	
potentially may be cel to the deve regulate in	y harmful inflammation, in addition to the systemic alert mell-intrinsic or involve interactions between innate and acquelopment of allergic disorders. In this session, we have to	y surfaces have intrinsic suppression mechanisms to avoid techanism to fight against the pathogens. The mechanisms quired immunity. Dysregulations of these mechanisms lead chosen topics on how cellular and molecular mechanisms ic inflammation. These insights will allow us to discuss new at and treat the allergic disorders.	
WS14-01-O/P	Functional role of Signal-transducing adaptor proteativation	ein-1 for regulation of FcεRI-mediated mast cell	
	Jun-ichi Kashiwakura ¹⁾ , Sumihito Togi ²⁾ , Kenji Oritani ³ ¹⁾ Department of Life Science, Faculty of Pharmaceutical Sciences, Ho	okkaido University of Science, ²⁾ Division of Genomic Medicine, Department cal University, ³⁾ Department of Hematology, International University of	
WS14-03-O/P	Annexin A5 inhibits IgE-mediated mast cells activa Mariana Silva Almeida ^{1,3)} , Satoko Tahara-Hanaoka ^{1,2)} , Department of Immunology, Institute of Medicine, University of Tsu Research Alliance (TARA), University of Tsukuba, 3R&D Center for In Immunology, Tsukuba Institute, ONO Pharmaceutical Company, Ltd.	Shiro Shibayama ⁴⁾ , Akira Shibuya ^{1,2)} kuba, ²⁾ Life Science Center for Survival Dynamics, Tsukuba Advanced novative Drug Discovery, University of Tsukuba, ⁴⁾ Research Center of	
WS14-05-O/P	The C-type lectin receptor Clec12b suppresses ma mite-induced dermatitis Ayana lijima ^{1,2)} , Kenshiro Matsuda ^{2,3)} , Kazuko Shibuya 1)Ph. D. Program in Human Biology, University of Tsukuba, 2)Departn	ast cell activation in the skin and regulates house dust $a^{2.4)}$, Akira Shibuya ^{2.4)}	
WS14-08-O/P	of basophil-dependent skin allergic inflammation	high efferocytic ability and contribute to the resolution Jun Nakabayashi ²⁾ , Shigeyuki Shichino ³⁾ , Hajime Karasuyama ¹⁾	

Diseases, Research Institute of Biomedical Sciences, Tokyo University of Science

¹⁾Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), ²⁾College of Liberal Arts and Sciences, Tokyo Medical and Dental University (TMDU), ³⁾Division of Molecular Regulation of Inflammatory and Immune

WS14-09-O/P

The role of IL-13 on dendritic cells is critical for type 2 immune responses

○ Yasuyo Harada¹⁾, Takanori Sasaki⁴⁾, Takeshi Watanabe, Satoshi Ueha³⁾, Shuhei Ogawa⁵⁾, Masato Kubo^{1,2)}

¹⁾Tokyo University of Science, Research Institute for Biological Science, Division of Molecular Pathology, ²⁾RIKEN Center for Integrative Medical Sciences, Laboratory for Cytokine Regulation, ³⁾Tokyo University of Science, Research Institute for Biological Science, Division of Molecular Regulation of Inflammatory and Immune Diseases, ⁴⁾Keio University School of Medicine, Department of Internal Medicine, Division of Rheumatology, ⁵⁾Tokyo University of Science, Research Institute for Biological Science, Division of Experimental Animal Immunology

WS14-11-O/P

An aluminum-containing food additive causes cleavage of IL-18, IL-33 and gasdermin D in intestinal epithelial cells under antibiotic treatment

O Ayako Wakabayashi¹⁾, Atsuko Owaki¹⁾, Ken Iwatsuki²⁾, Etsuko Toda³⁾, Yasuhiro Nishiyama⁴⁾, Shoji Matsune⁵⁾, Rimpei Morita¹⁾

¹⁾Department of Microbiology and Immunology, Nippon Medical School, ²⁾Department of Nutritional Science and Food Safety, Faculty of Applied Bioscience, Tokyo University of Agriculture, ³⁾Department of Analytic Human Pathology, Nippon Medical School, ⁴⁾Department of Neurological Science, Nippon Medical School, ⁵⁾Department of Otolaryngology, Nippon Medical School Musashi Kosugi Hospital

WS14-12-O/P

Impaired suppressive function of Tregs promotes continuous bone loss in food-allergic enteropathy model mice

○ Kohei Soga^{1,2)}, Tomohiro Hoshino³⁾, Kosuke Nishitsuji^{1,2)}, Michio Tomura⁴⁾, Shigeru Kakuta^{5,6)}, Satoshi Hachimura^{1,2)}, Haruyo Nakajima-Adachi^{1,2,7)}

¹⁾Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, ²⁾Research Center for Food Safety, Graduate School of Agricultural and Life Sciences, The University of Tokyo, ³⁾Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University, ⁴⁾Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, ⁵⁾Laboratory of Biomedical Science, Graduate School of Agricultural and Life Sciences, The University of Tokyo, ⁶⁾Collaborative Research Institute for Innovative Microbiology (CRIIM), The University of Tokyo, ⁷⁾Department of Immunobiology and Biofunctional Research, Graduate School of Agricultural and Life Sciences, The University of Tokyo

WS14-16-O/P

The USP7-STAT3-granzyme-Par-1 axis regulates allergic inflammation by promoting differentiation of IL-5-producing Th2 cells

O Masahiro Kiuchi, Kota Kokubo, Hiroyuki Yagyu, Masahiro Nemoto, Kaori Tsuji, Takahisa Hishiya, Miki Onoue, Rie Shinmi, Yuri Sonobe, Toshinori Nakayama, Kiyoshi Hirahara

Graduate School of Medicine and School of Medicine, Chiba University, Immunology

WS15 Tumor immunity-2; Various immunotherapy

15:30 ~ 16:45 Room A

Chairpersons: Keiko Udaka, Tetsuya Nakatsura

We will discuss about various strategies to combat tumors. Immune arsenals include T cells, NK, NKT cells and antibodies. Investigation into tumor cell biology and tumor microenvironment has helped develop various modality of immunotherapies. An expanded panel is exploited such as mRNAs, peptides, proteins to whole cells. Delivery of immunogens is also critical. Nanogel technique, jet injection will be presented. Recombinant virus and intracellular pathogens carrying tumor antigens are presented. Deliberate destruction of tumor cells induced epitope spreading. Antibody-mediated therapies target immune checkpoint molecules and inhibitory co-receptor and cytokine. A sophisticated recombinant antibody technique allowed development of dior tri-specific antibodies. Novel technique and pathogenesis of irAE are also in the scope. New ideas and critics are welcome.

WS15-01-O/P

Development of peptide immunotherapy targeting CAF

○ Keiko Udaka¹⁾, Toshihiro Komatsu¹⁾, Yuki Tanaka²⁾, Kousuke Onoue²⁾, Yoshiko Yamashita²⁾, Kazuhide Onoguchi²⁾, Ryo Tanaka³⁾, Yoichiro Iwase³⁾, Naoki Sakaguchi³⁾

¹⁾Department of Immunology, School of Medicine, Kochi University, ²⁾Al Drug Development Division, NEC Corporation, ³⁾Pharmaceutical Solutions Division, R&D, TERUMO Corporation

WS15-02-O/P

A novel cancer vaccine based on hyaluronic acid nanogel drives a potent antitumor immunity against metastatic- and ICI resistant-tumors with long lasting memory CD8+ T cells

○ Fumiyasu Momose¹⁾, Takashi Nakai²⁾, Kohei Yabuuchi²⁾, Makiko Yamane¹⁾, Tae Hayashi¹⁾, Linan Wang¹⁾, Yoshiyuki Nakagawa²⁾, Shogo Aso²⁾, Toru Katsumata²⁾, Tsuyoshi Shimoboji²⁾, Yoshihiro Miyahara¹⁾

¹⁾Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine, ²⁾New Product Development Office, Functional Additives Division, Asahi Kasei Corporation

WS15-03-O/P	Epitope spreading elicited by a multivalent cellular vaccine against prostate cancer, aAVC-PROS
	 Satoru Yamasaki¹ Kanako Shimizu^{1,2} Shin-ichiro Fujii^{1,2} Lab for Immunotherapy, RIKEN IMS, ²RIKEN Program for Drug Discovery and Medical Technology Platforms (DMP)
WS15-04-O/P	CD69 regulates tumor-specific CD8 T cell differentiation in tumor-draining lymph nodes
	 Ryo Nasu, Wang Yangsong, Yukihiro Endo, Ichita Hasegawa, Yukiyoshi Mita, Shinichiro Motohashi, Toshinori Nakayama, Motoko Y Kimura Graduate School of Medicine, Chiba University
WS15-05-O/P	Which subset of dendritic cells is critical to the effect of HSV-1 oncolytic virus therapy?
	Shumpei Uchida ¹⁾ , Tsukasa Seya ²⁾ , Shizuo Akira ³⁾ , Katsuaki Sato ⁴⁾ , Tsuneyasu Kaisho ⁵⁾ , Ryutaro Fukui ⁶⁾ , Kensuke Miyake ⁶⁾ , Tomoki Todo ⁷⁾ , Norimitsu Kadowaki ¹⁾ ¹⁾ Division of Hematology, Rheumatology and Respiratory Medicine, Faculty of Medicine, Kagawa University, ²⁾ Nebuta Research Institute for Life Sciences, Aomori University, Aomori, Japan, ³⁾ Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁴⁾ Division of Immunology Faculty of Medicine, University of Miyazaki, Miyazaki, Japan, ⁵⁾ Department of Physiological Regulation Mechanisms, Wakayama Medical University, Wakayama, Japan, ⁶⁾ Division of Infectious Genetics, Institute of Medical Science, the University of Tokyo, Tokyo, Japan, ⁷⁾ Division of Innovative Cancer Therapy, Institute of Medical Science, the University of Tokyo, Tokyo, Japan
WS15-06-O/P	A DLL3-targeting trispecific T cell engager with CD3/CD137 dual specific Fabs shows potent antitumor
	activity in small cell lung cancer models
	O Ryutaro Iwabuchi ¹⁾ , Hirofumi Mikami ¹⁾ , Shu Feng ²⁾ , Sotaro Naoi ²⁾ , Yumiko Azuma ¹⁾ , Yoko Kayukawa ¹⁾ , Toshiaki Tsunenari ¹⁾ , Junko Shinozuka ¹⁾ , Masaki Yamazaki ¹⁾ , Kenji Kashima ¹⁾ , Mika Kamata-Sakurai ¹⁾ , Takehisa Kitazawa ¹⁾
	¹⁾ Chugai Pharmaceutical Co., Ltd., ²⁾ Chugai Pharmabody Research Pte. Ltd. SAIL66, CLDN6-targeting next generation T-cell redirecting antibody, demonstrates a potent antitumor
	efficacy Naoki Kimura, Takayuki Kamikawa, Shinya Ishii, Masaru Muraoka, Kenji Taniguchi, Ryo Uchikawa, Moe Yoshimoto, Sho Akai, Mei Shimada, Mika Kamata-Sakurai, Takehisa Kitazawa, Tomoyuki Igawa Chugai Pharmaceutical Co.,Ltd
WS16 Infe	ction immunity 3 15:30 ~ 16:45 Room E
	Chairpersons: Kouetsu Ogasawara, Shinobu Suzuk
	ion focuses on bacterial infections. We would like to introduce and discuss new findings on sensing and signals in nfection protection, and research on how first-line infection defense malfunction is involved in diseases.
WS16-01-O/P	Circadian Dysregulation in HaCaT keratinocytes Upon Candida albicans Infection
WS16-02-O/P	Tannerella forsythia induces inflammasome activation by triggering both NLRP3 and Caspase-4
	○ Chenwei Hsu, Tokuju Okano, Tosihiko Suzuki Tokyo Medical and Dental Univ.
WS16-03-O/P	Identification of PILRA and PILRB as novel β-glucan receptors that bind to pathogenic fungus, <i>Aspergillu</i>
	SPP Yasunobu Miyake, Hiroki Yoshida Saga University, Faculty of Medicine
WS16-04-O/P	Defining the molecular mechanisms by which histone deacetylase 7 (HDAC7) orchestrates immunometabolic responses in macrophages
	Rishika Abrol, Kaustav Das Gupta, James E.B. Curson, Syeda Farhana Afroz, Karoline Raven, Divya Ramnath,

Institute for Molecular Bioscience, The University of Queensland, Australia

Matthew J. Sweet

WS16-05-O/P	Mycobacterium leprae deactivates a potent PAMP to achieve	immune evasion
	○ Shigenari Ishizuka ^{1,2)} , Yuji Miyamoto ³⁾ , Tomomi Kawakita ³⁾ , Yumi Masamichi Nagae ^{1,2)} , Sho Yamasaki ^{1,2,5)}	Maeda ³⁾ , Masamichi Goto ⁴⁾ , Manabu Ato ³⁾ ,
	1)Department of Molecular Immunology, Research Institute for Microbial Diseases ((RIMD), Osaka University, ²⁾ Laboratory of Molecular
	Immunology, Immunology Frontier Research Center (IFReC), Osaka University, ³⁾ De National Institute of Infectious Diseases (NIID), ⁴⁾ Department of Pathology, Kagoshi	ima University Graduate School of Medical and Dental
	Sciences, ⁵⁾ Center for Infectious Disease Education and Research (CiDER), Osaka L	
WS16-06-O/P	Pseudomonas aeruginosa Hijacks Host Nitric Oxide Metaboli the Lung	ic Pathway to Evade Killing by Neutrophils in
	Yoshinari Nakatsuka, Masanori Matsumoto, Naohiro Inohara, Gal	briel Núñez
	University of Michigan	
WS16-07-O/P	Secreted Phospholipase PLA2G5 Acts as a Self-Venom in Se	psis by Mediating Hemolysis
	Michihiro Takahama ^{1,2)} , Nicolas Chevrier ²⁾	
	¹⁾ Graduate School of Pharmaceutical Sciences, Osaka University, ²⁾ Pritzker School of	
WS16-08-O/P	Chronic kidney disease increases bacterial susceptibility in mice due to reduced bactericidal activity of	
	Kupffer cells Kazuma Mori ¹⁾ , Hiroyuki Nakashima ¹⁾ , Hiroyasu Goto ²⁾ , Keiko Tan	ομε ²⁾ Seigo Ito ³⁾ Δzusa Kato ¹⁾
	Masahiro Nakashima ¹⁾ , Bradley M Kearney ^{1,4)} , Manabu Kinoshita ¹⁾	
	¹⁾ Department of Immunology and Microbiology, National Defense Medical College, Defense Medical College, ³⁾ Department of Internal Medicine, Self-Defense Force Iru Exchange Program	
WS17 T cell	I biology in diseases and environments	15:30 ~ 16:45 Room C
Ŧ		airpersons: Koji Yasutomo, Kazuko Shibuya
	ntrol the adaptive immune system defending against a wide varie e between self- and non-self-antigens. Recent studies using scRN	
	geneous than previously expected. Although these studies have imp	•
	many new questions about the mechanism of T cell differentiation. In	92.
	eat opportunity to assess the human T cell activation and differentiati	·
	n to discuss the molecular mechanisms of effector/memory T cell dif	•
	y using rodent models and human samples. We hope for a constructi	ive discussion not only in the workshop but also
in the poste	er presentation.	

WS17-01-O/P	Dysfunction of proteasomes in T cells causes immunodeficiency — Erkhembayar Shinebaatar, Junko Morimoto, Hiroyuki Kondo, Koji Yasutomo Tokushima university
WS17-05-O/P	Neo-self antigens are the primary target of autoreactive T cells in lupus patients Shunsuke Mori ¹⁾ , Hisashi Arase ^{1,2)} Department of Immunochemistry, World Premier International Immunology Frontier Research Centre, Osaka University, Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University
WS17-08-O/P	Thioredoxin-interacting protein is essential for memory T cell formation via the regulation of the redox metabolism Okota Kokubo¹, Kiyoshi Hirahara¹, Masahiro Kiuchi¹, Kaori Tsuji¹, Yuri Sonobe¹, Rie Shinmi¹, Takahisa Hishiya¹, Chiaki Iwamura¹, Atsushi Onodera², Toshinori Nakayama¹.³) ¹)Department of Immunology, Graduate School of Medicine, Chiba University, ²)Institute for Advanced Academic Research, Chiba University, ³)Core Research for Evolutionary Science and Technology, Japan Agency for Medical Researchand Development

WS17-15-O/P	Age-associated cytotoxic CD4 ⁺ T cells in patients with autoimmune diseases
	○ Hideyuki Takahashi¹¹, Manaka Goto¹¹, Ryochi Yoshida¹¹, Takahiro Itamiya¹.²², Masahiro Nakano³.⁴, Meiko Maeda⁵¹, Akatsuki Kubota⁵¹, Tatsushi Toda⁵¹, Kazuyoshi Ishigaki³¹, Mineto Ota¹¹, Tomohisa Okamura¹.²², Keishi Fujio¹¹ ¹¹Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ²¹Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, ³¹ Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, ⁴¹Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, ⁵¹Department of Neurology, Graduate School of Medicine, The University of Tokyo
WS17-21-O/P	An antigen-specific therapeutic strategy using stabilized iTreg for pemphigus
	Miho Mukai ¹⁾ , Hayato Takahashi ¹⁾ , Norihisa Mikami ²⁾ , Shimon Sakaguchi ²⁾ , Masayuki Amagai ¹⁾ ¹⁾ Dermatology, Keio University School of Medicine, Tokyo, ²⁾ Experimental Immunology, Immunology Frontier Research Center, Osaka University, Osaka
WS17-22-O/P	VeDTR mice employing an intersectional genetic method specifically delineate Th1-type Treg cells and
	their roles in tumor immunity
	Masaaki Okamoto ¹⁾ , Masahiro Yamamoto ^{1,2,3)} Department of Immunoparasitology, Research Institute for Microbial Diseases, ²⁾ Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, ³⁾ Department of Immunoparasitology, Center for Infectious Disease Education and Research
WS17-23-O/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
WS17-26-O/P	Naïve-like Follicular Tregs (nTfr) in human blood are primed for differentiation into mature Tfr and

WS18 Dendritic cells & Macrophages: development, function and regulation of immune response and disease

Hisatake Matsumoto³⁾, Hiroshi Ogura³⁾, Shimon Sakaguchi^{4,5)}, James Badger Wing^{1,2)}

○ Janyerkye Tulyeu¹⁾, Jonas Noerskov Soendergaard¹⁾, David Priest²⁾, Yuki Togami³⁾, Takeshi Ebihara³⁾,

¹⁾Human Single Cell Immunology Team, CiDER, Osaka University, ²⁾Laboratory of Human Single Cell Immunology, IFReC, Osaka University, ³⁾Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, ⁴⁾Laboratory of Experimental Immunology IFReC, Osaka University, ⁵⁾Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University

disrupted during severe infections

Chairpersons: Katsuaki Sato, Noriko Sorimachi

Dendritic cells (DCs) and macrophages comprise various subsets with phenotypic and functional heterogeneity. DCs and macrophage are considered as essential antigen (Ag)-presenting cells (APCs) that play critical roles in orchestrating immune system. Furthermore, their functions can be controlled by various intrinsic elements, including transcriptional factors as well as extrinsic stimulations through pattern recognition receptors. In this session, we highlight the development and function of DCs and macrophage as well as the regulation of immune response and disease. We hope that all participants have an active discussion in this session and poster presentation. Each oral presentation should take 9 min (7 min for presentation and 2 min for discussion).

Functional analysis of transcription factors PU.1 and SpiB in the determination of dendritic cell fate
○ Naoto Ito¹, Mayumi Hirakawa², Natsuki Minamikawa¹, Mayuka Katagiri¹, Kazuki Nagata¹, Tomokatsu Ikawa², Chiharu Nishiyama¹)
¹⁾ Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²⁾ Research Institute for Biomedical Sciences, Tokyo University of Science
Direct reprogramming of fibroblasts into functional dendritic cells by defined factors
○ Yutaro Kumagai
Department of Life Science and Biotechnology, National Institute of Advanced Industrial Science and Technology
Analysis of transcriptomes of rat dendritic cell subsets and newly discovered CD103° DC-like cells
 Yasushi Sawanobori, Hisashi Ueta, Yusuke Kitazawa, Nobuko Tokuda Anatomy, Dokkyo Medical University

cooperati and their as an im	barrier organs such as gastrointestinal tract, lung, and skin, innate/adaptive immune ce atively interact and function as a barrier system for maintaining homeostasis of the barrier metabolites interact with host barrier system and contribute to maintaining its homeost mportant player to regulate immune system in the barrier organs. This workshop aims alar and cellular machineries of the mucosal and skin immunity. Presentation will be 7 min	ier interface. Resident microbes tasis. Peripheral nerve emerges s to discuss recent findings on
WS19 Mud	ucosal-skin immunity 1 Chairpersons: Sae	15:30 ~ 16:45 Room E eko Nakajima, Ryu Okumura
WS18-14-O/P	Naoto Fujioka ^{1,2)} , Tetsuro Kobayashi ¹⁾ , Kazuyo Moro ^{1,2,3)} ¹⁾ Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾ Laboratory for Innate Immune Systems, Departmosaka University Graduate School of Medicine, ³⁾ Laboratory for Innate Immune Systems, Osaka Univers Center	ent of Immunology and Microbiology, ity Immunology Frontier Research
WS18-07-O/P	Kaempferol exhibits an anti-inflammatory effect through AhR-mediated upredendritic cells Miki Takahashi, Kazuki Nagata, Yumi Watanuki, Masaki Yamaguchi, Takuya Yashiro Chiharu Nishiyama Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of	o, Sakura Noguchi,
WS18-06-O/P	NR4A3 deficiency deteriorates psoriasis by amplifying TLR7-mediated activation of Mayuka Katagiri ¹⁾ , Naoto Ito ¹⁾ , Natsuki Minamikawa ¹⁾ , Kazuki Nagata ¹⁾ , Akihiko Yosh Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University and Immunology, Keio University School of Medicine	himura ²⁾ , Chiharu Nishiyama ¹⁾
WS18-05-O/P	FBX011 constitutes a major negative regulator of MHC class II Yusuke Kasuga ¹ , Ryota Ouda ¹ , Masashi Watanabe ² , Xin Sun ¹ , Miki Kimura ¹ , Shig Koichi Kobayashi ^{1,3} Department of Immunology, Hokkaido University Graduate School of Medicine, Department of Medica Graduate School of Medicine, Hokkaido University Institute for Vaccine Research and Development	
WS18-04-O/P	Sequential Notch2 and retinoic acid signals license IL-23 expression by EpC gut-associated lymphoid tissues Daiya Ohara ¹⁾ , Yusuke Takeuchi ¹⁾ , Hitomi Watanabe ¹⁾ , Yoonha Lee ¹⁾ , Hiroki Mukoya Gen Kondoh ¹⁾ , Keiji Hirota ¹⁾ Institute for Life and Medical Sciences, Kyoto University, PMedical Research Institute Tokyo Medical and Medical Sciences, Kyoto University, PMedical Research Institute Tokyo Medical and Medical Sciences	ma ¹⁾ , Toshiaki Ohteki ²⁾ ,

sensory nerves

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

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

WS19-03-O/P

Constipation enhances gut-skin axis imbalance and worsens acne in the novel constipation-acne mouse model

Masakazu Tamai¹⁾, Takashi Sugihira^{1,2)}, Yuriko Yamazaki^{1,3)}, Seitaro Nakagawa^{1,2)}, Manabu Fujimoto^{1,4)}, Yumi Matsuoka-Nakamura^{1,2,3)}

¹⁾Department of Dermatology, Graduate School of Medicine, Osaka University, ²⁾Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, 3) Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, 4) Cutaneous Immunology, Immunology Frontier Research Center, Osaka University

WS19-05-O/P	Skin-resident ILC1s coordinate epithelial stress surveillance
	○ Tetsuro Kobayashi ¹⁾ , Menglu Li ²⁾ , Daisuke Asanuma ³⁾ , Shigeyuki Namiki ³⁾ , Kenzo Hirose ³⁾ , Katsumasa Fujita ²⁾ , Kazuvo Moro ^{1,4,5)}
	¹⁾ Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾ Department of Applied Physics, Graduate School of Engineering, Osaka University, ³⁾ Department of Pharmacology, Graduate School of Medicine, The University of Tokyo, ⁴⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ⁵⁾ Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC)
WS19-07-O/P	Differentiation and function of iBALT M cells induced by influenza infection
	O Shingo Kawai ¹⁾ , Shunsuke Kimura ¹⁾ , Takahiro Yamada ^{1,2)} , Yutaka Nakamura ^{1,3)} , Shinichiro Sawa ⁴⁾ , Koji Hase ¹⁾ ¹⁾ Division of Biochemistry, Faculty of Pharmacy, Keio University, ²⁾ Department of Immunology, Yale School of Medicine, ³⁾ Department of Microbiology and Immunology, School of Pharmaceutical Sciences, Wakayama Medical University, ⁴⁾ Division of Mucosal Immunology, Reseat Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University
WS19-14-O/P	Decoding Interactions between Environmental Small Molecules and Host GPCRs/Olfactory Receptors in the Gut
	Motohiko Kadoki ^{1,2,3)} , Daniel B Graham ^{1,2,3)} , Ramnik J Xavier ^{1,2,3)} Massachusetts General Hospital, ²⁾ Broad Institute, ³⁾ Harvard Medical School
WS19-15-O/P	GPR31 signaling enhances immune responses in Peyer's patches by inducing dendrite protrusion of CX3CR1 ⁺ phagocytes to M cells
	Catsuhiro Nakanishi, Takayuki Ajiro, Yuki Tsukamoto, Kaito Yukishima, Eiji Umemoto Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka
WS19-16-O/P	The pyruvate-GPR31 axis promotes transepithelial dendrite formation in human intestinal cDC1 © Eri Oguro-Igashira ^{1,2} , Mari Murakami ¹⁾ , Atsushi Kumanogoh ²⁾ , Kiyoshi Takeda ¹⁾

WS19-17-O/P

Immunology, Graduate School of Medicine, Osaka University, Japan Unveiling the crucial role of tuft cells in the amelioration of ulcerative colitis through appendectomy

¹⁾Laboratory of Immune Regulation, Graduate School of Medicine, Osaka University, Japan, ²⁾Department of Respiratory Medicine and Clinical

○ Shunya Hatai¹⁾, Yasutaka Motomura^{1,2,3)}, Koji Hosomi⁴⁾, Kiyoshi Takeda⁵⁾, Jun Kunisawa⁴⁾, Kazuyo Moro^{1,2,3,6)}

¹⁾Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Graduate School of Medicine, Osaka University,
²⁾Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), ³⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center, ⁴⁾Laboratory of Vaccine Materials, National Institutes of Biomedical Innovation, Health and Nutrition, ⁵⁾Laboratory of Immune Regulation, Department of Microbiology, and Immunology, Graduate School of Medicine, Osaka University, ⁶⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School of Frontier Biosciences

WS20 Innate lymphocytes

15:30 ~ 16:45 Room F

Chairpersons: Naoko Satoh-Takayama, Takashi Ebihara

Innate lymphocytes, including innate lymphoid cells (ILCs), NK, NKT, and MAIT, are the key immune mediators between innate and adaptive immunity. Innate lymphocytes do not express antigen-specific receptors but are involved in immune regulation via surface receptors or cytokines. Recent dramatic updates in the function of these innate lymphocytes have revealed their involvement in many diseases. Therefore, understanding the differentiation and regulation of these innate lymphocytes may lead to new insight into the control of many diseases. In this session, we would like to discuss the regulation of innate lymphocytes differentiation and its pathogenesis in disease control. We welcome active discussion and communication from all participants.

WS20-01-O/P

Themis2 regulates natural killer cell memory function and formation

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

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

WS20-02-O/P

Mechanisms underlying perturbed NK cell activation during pregnancy

○ Jennifer Habel¹¹, Oanh Nguyen¹¹, Anastasia Minervina²¹, E. Kaitlynn Allen²¹, Jeremy Chase Crawford²¹, Ilariya Tarasova¹¹, Jan Schroeder¹¹, Martha Lappas³¹, Susan Walker³³, Paul G Thomas²¹, Louise Rowntree¹¹, Katherine Kedzierska¹.⁴¹

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WS20-05-O/P

The metabolic adaptation is necessary for iNKT cells to differentiate into the follicular subset, which is regulated by Gr-1⁺ cells

○ Koji Hayashizaki¹¹, Yasuhiro Kamii¹¹, Toshio Kanno²¹, Masato Kubo³¹, Toshiaki Ohteki⁴¹, Kazuyoshi Kawakami⁵¹, Yusuke Endo²¹, Yuki Kinjo¹¹

¹⁾Department of Bacteriology, The Jikei University School of Medicine, ²⁾Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ³⁾Division of Molecular Pathology, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science, ⁴⁾Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University, ⁵⁾Department of Medical Microbiology, Mycology and Immunology, Tohoku University Graduate School of Medicine

WS20-06-O/P

Zeb2 regulates differentiation of memory invariant NKT cells

○ Tomonori Iyoda¹⁾, Kanako Shimizu^{1,2,3)}, Takaho Endo⁴⁾, Hiroshi Nakazato¹⁾, Satoru Yamasaki¹⁾, Shin-ichiro Fujii^{1,2,3)}

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WS20-07-O/P

Type 1 innate lymphoid cells protect the liver from ischemia-reperfusion injury in mice

○ Kenshiro Matsuda^{1,2,3)}, Akira Shibuya^{1,2,3)}

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²⁾Department of Immunology, Institute of Medicine, University of Tsukuba,
³R&D Center for Innovative Drug Discovery, University of Tsukuba

WS20-09-O/P

ILC2s exacerbate endometriosis via amphiregulin

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

¹⁾Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ³⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC)

WS20-12-O/P

Age-dependent expansion of group 3 innate lymphoid cells contributes to neutrophilic acute lung injury

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WS20-13-O/P

Cnot3 differentially regulates development and function of innate lymphoid cells

O Megumi Tatematsu¹⁾, Akane Fuchimukai¹⁾, Shunsuke Takasuga¹⁾, Toshiki Yamada¹⁾, Kenji Ishiwata²⁾, Ichiro Taniuchi³⁾, Shinichiro Sawa⁴⁾, Keiji Kuba⁵⁾, Takashi Ebihara¹⁾

¹⁾Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾Department of Tropical Medicine, The Jikei University School of Medicine, ³⁾Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences, ⁴⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Kyushu University, ⁵⁾Department of Pharmacology, Kyushu University Graduate School of Medical Sciences

WS21 B cell (1)-from birth to death

15:30 ~ 16:45 Room G

Chairpersons: Tomoharu Yasuda, Tomokatsu Ikawa

Production of B cells occurs initially during embryogenesis and then continuously throughout life, with the diversification of antigen receptors brought by successive rearrangements of the Ig locus, somatic hypermutation, and class-switch recombination. Each of these processes is precisely regulated by specific molecular machinery, which is linked to the potential of each B cell to proliferate and differentiate, further determining the humoral immunity. Dysregulation of those mechanisms can lead to diseases such as immunodeficiency, allergy, autoimmunity, and tumors. In this session, we would like to discuss new findings on the regulation of B cells from birth to death.

WS21-01-O/P	A multimorphic mutation in IRF4 causes human autosomal dominant combined immunodeficiency O Zhijia Yu ¹ , Oriol Fornes ² , Alicia Jia ² , Hye Sun Kuehn ³ , Qing Min ⁴ , Ulrich Pannicke ⁵ , Nikolai Schleussner ⁶ , Romane Thouenon ⁷)
	¹⁾ The Australian National University, ²⁾ University of British Columbia, ³⁾ NIH, ⁴⁾ Fudan University, ⁵⁾ University of UIm, ⁶⁾ MDC/ECRC, ⁷⁾ Universite Paris Cite
WS21-02-O/P	The origin of natural IgM-producing cells assessed by the RAG2-based cell fate tracking system (Neiko Fujisaki ¹⁾ , Shogo Okazaki ²⁾ , Ryo Goitsuka ¹⁾ Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science, Department of Microbiology, Nihon University School of Dentistry
WS21-04-O/P	Ago2 and a miRNA reduce DNA topoisomerase 1 (Top1) for enhancing DNA cleavage in antibody diversification by activation-induced cytidine deaminase (AID) Maki Kobayashi ¹⁾ , Hiroyuki Wakaguri ²⁾ , Masakazu Shimizu ²⁾ , Koichiro Higasa ²⁾ , Fumihiko Matsuda ²⁾ , Tasuku Honjo ¹⁾ Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, Center for Genomic Medicine, Kyoto University Graduate School of Medicine
WS21-06-O/P	Nucleolar protein NOP16 regulates AID induction and dictates the directionality of B-cell class switch recombination O Yohana Silas Mtali, Ken Takashima, Hiroyuki Oshiumi Department of Immunology, Graduate School of Medical Sciences, Kumamoto University
WS21-09-O/P	Immunoglobulin A deficiency causes immunological and neurological disorders Takahiro Adachi ¹⁾ , Kiminori Nakamura ²⁾ , Mayuko Hashimoto ³⁾ , Yutaka Kusumoto ³⁾ , Michio Tomura ³⁾ Dept. Precision Health, MRI, TMDU, Depart. Cell Biological Science, ALS, Hokkaido Univ. Graduate School of Life Science, Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani Univ.
WS21-11-O/P	Cytokine-induced IgE production from B1 cells exacerbates allergic inflammation Yasutaka Motomura ^{1,2,4)} , Yohei Maeda ³⁾ , Masaki Hayama ³⁾ , Kazuyo Moro ^{1,2,4)} Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC), Department of Otorhinolaryngology-Head and Neck surgery, Graduate School of Medicine, Osaka University, Osaka, Japan, Laboratory for Innate Immune Systems, RIKEN IMS
WS21-13-O/P	Chronic BCR signaling shapes the generation and maintenance of age-associated B cells from anergic B cells Cells Keisuke Imabayashi ¹⁾ , Hiroaki Niiro ²⁾ , Yoshihiro Baba ¹⁾ Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, Department of Medical Education, English of Medical Sciences.

WS22 Tumor immunity-3; Analysis of tumor immunity

13:00 ~ 14:15 Room A

Chairpersons: Mamoru Harada, Hozumi Motohashi

Although we were surprised by the effectiveness of immune checkpoint blocking antibodies, we still need more innovations and new treatments to overcome cancer. We have to work on how to enhance the antitumor activity of CD8-positive killer T cells (CTL), how to overcome cancer heterogeneity, how to overcome the immunosuppressive environment, and how to control various immune cells such as dendritic cells, macrophages, Treg, MDSCs, and monocytes. In this WS, we will discuss many research topics on Analysis of tumor immunity to overcome these issues.

WS22-01-O/P

Identification of candidate target genes for maintaining TCF1^{high} CD8⁺ T cells under high IL-2 conditions

○ Satsuki Okafuji¹⁾, Soyoko Morimoto²⁾, Fumihiro Fujiki³⁾, Akinori Nagata¹⁾, Jun Nakata¹⁾, Hiroko Nakajima⁴⁾, Sumiyuki Nishida^{5,6)}, Yoshihiro Oka²⁾, Yusuke Oji¹⁾, Haruo Sugiyama⁴⁾

¹⁾Department of Clinical Laboratory and Biomedical Sciences, Osaka University Graduate School of Medicine, ²⁾Department of Cancer Stem Cell Biology, Osaka University Graduate School of Medicine, ³⁾Department of Cancer Immunotherapy, Osaka University Graduate School of Medicine, ⁴⁾Department of Cancer Immunology, Osaka University Graduate School of Medicine, ⁵⁾Strategic Global Partnership & X(Cross)-Innovation Initiative Graduate School of Medicine, Osaka University and Osaka University Hospital, ⁵⁾Department of Respiratory Medicine and Clinical Immunology Graduate School of Medicine, Osaka University

WS22-02-O/P

Transcription factor Bach2 controls anti-tumor immunity via regulation of CD8 T cell innate immune function

○ Yuko Matsuoka¹⁾, Junpei Suzuki²⁾, Makoto Kuwahara²⁾, Masakatsu Yamashita^{1,2)}

¹⁾Translational Research Center, Ehime University Hospital, Ehime University, ²⁾Department of Immunology, Graduate School of Medicine, Ehime University

WS22-03-O/P

Characteristics of tumor antigen-reactive CD8⁺ T cell population in tumor-infiltrating lymphocytes from gastric cancer

O Nobuo Tsukamoto¹⁾, Takafumi Okayama^{1,2)}, Toshihiro Suzuki¹⁾, Takahiro Kinoshita²⁾, Tetsuya Nakatsura¹⁾

¹⁾Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center, ²⁾Gastric Surgery Division, National Cancer Center Hospital East

WS22-04-O/P

Fatty acid oxidation in CD8* T cells prevents terminally exhaustion and increases anti-tumor immunity

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

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

WS22-05-O/P

Addressing Tumor Heterogeneity by Sensitizing Resistant Cancer Cells to T cell-secreted Cytokines

○ Yoshinaga Ito^{1,2,3)}, Deng Pan^{2,3)}, Wubing Zhang⁴⁾, Xixi Zhang^{2,3)}, Tiffany Juan²⁾, Jason Pyrdol²⁾, Oleksandr Kyrysyuk²⁾, John Doench⁵⁾, X. Shirley Liu⁴⁾, Kai W. Wucherpfennig^{2,3)}

¹⁾Kyoto University, Institute for Life and Medical Sciences, ²⁾Department of Cancer Immunology and Virology, Dana-Farber Cancer Institute, ³⁾Department of Immunology, Harvard Medical School, ⁴⁾Department of Data Sciences, Dana-Farber Cancer Institute, ⁵⁾Genetic Perturbation Platform, Broad Institute of MIT and Harvard

WS22-06-O/P

MAIT cells have a negative impact on glioblastoma

O Masaki Terabe¹, Taijun Hana¹, Seke Keretsu¹, Nargis Malik¹, Hye Kim¹, Alexander Lee², Matthew Watowich¹, Masashi Watanabe¹, Robert Prins², Mark Gilbert¹

1)National Cancer Institute, NIH, 2)UCLA

WS22-07-O/P

Analysis of intertumoral and intratumoral heterogeneity based on molecular subtypes in clear cell renal cell carcinoma reveals immune suppressive phenotype of the angiogenesis-related immune signatures

C Katsuhiro Ito^{1,2)}, Tomonori Yaguchi¹⁾, Kenji Chamoto¹⁾, Takayuki Sumiyoshi²⁾, Yuki Kita²⁾, Takashi Kobayashi²⁾, Tasuku Honio¹⁾

¹⁾Kyoto University Graduate School of Medicine Department of Immunology and Genomic Medicine, ²⁾Kyoto University Graduate School of Medicine Department of Urology

WS23 Organ specific autoimmunity

13:00 ~ 14:15 Room B

Chairpersons: Sachiko Miyake, Isao Matsumoto

Autoimmunity attacks a specific organ in patients with multiple sclerosis/neuromyelitis optica, inflammatory bowel diseases, thyroid diseases and type 1 diabetes. These organ-specific autoimmune diseases affect relatively large populations and constitute areas of unmet medical need. Recent advances in molecular targeted therapies as well as technologies including gene hunting, cell metabolism, microbiome analysis are shedding light on both clinical and research in this field. This session will cover a wide range of organs affected by human autoimmunity that could be manipulated by novel technologies.

WS23-01-O/P

CLEC16A-driven mitophagy limits astrocyte proinflammatory activities

Atsushi Kadowaki^{1,2)}, Michael Wheeler^{1,3)}, Zhaolong Li¹⁾, Alain Ndayisaba¹⁾, Stephanie Zandee⁵⁾, Himanish Basu⁴⁾, Chun-Chei Chao¹⁾, Scott Soleinmanpour⁶⁾, Isaac Chiu⁴⁾, Alexandre Prat⁵⁾, Vikram Khurana^{1,7)}, Francisco Quintana^{1,3)}

¹⁾Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard Medical School, ²⁾Department of Neurology, Osaka University, ³⁾Broad Institute of MIT and Harvard, Cambridge, ⁴⁾Department of Immunology, Harvard Medical School, ⁵⁾Neuroimmunology Research Lab, CRCHUM and Department of Neuroscience, Faculty of Medicine, Universite de Montreal, ⁶⁾Division of Metabolism, Endocrinology and Diabetes and Department of Internal Medicine, University of Michigan Medical School, ⁷⁾Harvard Stem Cell Institute

WS23-03-O/P

Ketogenic diet regulates central nervous inflammation via changes in small intestinal gut microbiota

○ 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

WS23-05-O/P

Mitochondrial cysteinyl-tRNA synthetase (CARS2) -dependent sulfur metabolism exacerbates a mouse model of multiple sclerosis through antigen presentation

○ Hibiki Suzuki¹⁾, Kyoga Hiraide¹⁾, Yuya Kitamura¹⁾, Shunichi Tayama¹⁾, Kosuke Sato¹⁾, Keita Koinuma¹⁾, Yuko Okuyama¹⁾, Takeshi Kawabe¹⁾, Takaaki Akaike²⁾, Naoto Ishii¹⁾

¹⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, ²⁾Department of Environmental Health Sciences and Molecular Toxicology, Tohoku University Graduate School of Medicine

WS23-07-O/P

Self-reactive Th cells express Neuropilin-1 (NRP1) following activation in autoimmune disease

○ Ben JE Raveney^{1,2)}, Atsuko Kimura¹⁾, Youwei Lin³⁾, Tomoko Okamoto³⁾, Atsuko Katsumoto³⁾, Reiko Saika³⁾, Shohei Hori⁴⁾, Wakiro Sato^{1,3)}, Shinji Oki¹⁾, Takashi Yamamura^{1,3)}

¹⁾National Institute of Neuroscience; National Center of Neurology and Psychiatry, Kodaira, Tokyo, Japan, ²⁾RIKEN IMS, Yokohama, Kanagawa, Japan, ³⁾National Center Hospital, National Center of Neurology and Psychiatry, Kodaira, Tokyo, Japan, ⁴⁾Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan

WS23-08-O/P

GM-CSF promotes long-term survival of myeloid cells of peripheral origin in the central nervous system for pain-induced relapse of neuroinflammation

○ Shintaro Hojyo^{1,3,7}, Shiina Matsuyama¹⁾, Reiji Yamamoto^{1,2)}, Kaoru Murakami^{1,3)}, Junko Nio-Kobayashi⁴⁾, Tadafumi Kawamoto⁵⁾, Takeshi Yamasaki^{6,1)}, Rie Hasebe^{1,6)}, Daisuke Kamimura¹⁾, Shigeru Hashimoto¹⁾, Yuki Tanaka^{1,3)}, Masaaki Murakami^{1,3,6,7)}

¹⁾Division of Molecular Psychoneuroimmunology, Institute for Genetic Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²⁾Department of Orthopaedic Surgery, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ³⁾Group of Quantum Immunology, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology, Inage, Japan, ⁴⁾Laboratory of Histology and Cytology, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ⁵⁾Department of Dentistry, Tsurumi University, Yokohama, Japan, ⁶⁾Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institute for Natural Sciences, Okazaki, Japan, ⁷⁾Institute for Vaccine Research and Development, Hokkaido University, Sapporo, Japan

WS23-09-O/P	Protective Effects of Inulin on Stress-Recurrent Inflammatory Bowel Disease Kanami Orihara, Yao Du, Kanta Kusama, Xinyue Chen, Susumu Kajiwara Tokyo Institute of Technology, School of Life Science and Engineering
WS23-12-O/P	Treg-mediated inhibition of protein translation in effector T cells is critical in maintaining peripheral tolerance in humans and mice Kazushige Obata-Ninomiya ¹⁾ , Lomon So ^{1,2)} , Jing Song ¹⁾ , Jane H Buckner ¹⁾ , Ram Savan ¹⁾ , Steven F Ziegler ¹⁾ Benaroya Research Institute at Virginia Mason, ²⁾ University of Washington
WS23-18-O/P	Oral bacteria trigger the production of IgA autoantibodies in IgA nephropathy model mice Mizuki Higashiyama ¹⁾ , Kei Haniuda ^{2,1)} , Yoshihito Nihei ^{3,1)} , Daisuke Kitamura ¹⁾ Tokyo University of Science, Research Institute for Biomedical Sciences(RIBS), Department of Immunology, University of Toronto, Canada, Department of Nephrology, Juntendo University Faculty of Medicine, Tokyo, Japan

WS24 T cell development and function

13:00 ~ 14:15 Room C

Chairpersons: Takeshi Nitta, Izumi Ohigashi

Immunocompetent and self-tolerant T cells are crucial for the proper functioning of the adaptive immune system. The development of functional T cells is regulated in a multilayered manner, including lineage specification, differentiation, repertoire selection, and activation. In this session, we will discuss recent progress in our understanding of the regulatory mechanisms in the development and function of conventional as well as non-conventional T cells. It also focuses on the evolution of the adaptive immune system. We welcome your active participation and discussion. [Each speaker is allotted 7 min for presentation and 3 min for discussion.]

WS24-01-O/P	Cytidine deaminase-based assembly of anticipatory antigen receptors in lamprey alternative adaptive immune system Ryo Morimoto Max Planck Institute of Immunobiology and Epigenetics
WS24-03-O/P	Single-cell Multiome analysis unravels the lineage choice of T-cell versus innate lymphoid cells mediated by E2A-Id2-Notch1 axis Masaki Miyazaki ¹⁾ , Kazuko Miyazaki ¹⁾ , Kenta Horie ^{2,3)} , Taishin Akiyama ²⁾ , katsuto Hozumi ⁴⁾ , Hiroshi Kawamoto ¹⁾ Nyoto University, ²⁾ RIKEN center for integrative medical sciences, ³⁾ Chiba University, ⁴⁾ Tokai University School of Medicine
WS24-11-O/P	Understanding of Lck functions during thymocyte differentiation Junji Harada ^{1,2)} , Ichiro Taniuchi ¹⁾ 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
WS24-13-O/P	T cell receptor repertoires of regulatory and conventional T cells converge during differentiation into effector or memory states Reiko Tsukazaki, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS24-19-O/P	(Pro)renin receptor controls immune responses by promoting the survival of naive T and iNKT cells Satoru Munakata ^{1,2)} , Akihiro Shimba ^{1,3)} , Koichi Ikuta ¹⁾ 1)Laboratory of Immune Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾ Graduate School of Biostudies, Kyoto University, ³⁾ Department of Human Health Sciences, Graduate School of Medicine, Kyoto University
WS24-20-O/P	Vitamin C treatment enhances the immune responses of CD8 ⁺ T cellsby upregulation of Batf3 Kenta Kondo, Koji Terada, Yasutoshi Agata Department of Biochemistry and Molecular Biology, Shiga University of Medical Science

WS24-24-O/P

Unique structural basis of the recognition of bulky mycobacterial glycolipid by a novel CD1-restricted TCR

O Minori Asa^{1,2)}, Yuki Sakai^{1,2)}, Wakana Kusuhara^{1,2)}, Sho Yamasaki^{1,2)}

¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology, Frontier Research Center (iFReC), Osaka University

WS25 Mucosal-skin immunity2

13:00 ~ 14:15 Room D

Chairpersons: Yumi Matsuoka, Yoshiyuki Goto

Skin and mucosal surfaces serve as physical and immunological barriers against environmental antigens. Constitutive exposure to innumerable antigens gives unique features to the host skin and mucosal immune systems. A complex network of innate and adaptive immune cells-including innate lymphoid cells, dendritic cells, eosinophils, IgA+ B cells, and T cells-resides in the skin and mucosal tissues. These cells interact with one another as well as with fibroblasts and epithelial cells to create a protective and homeostatic platform against environmental antigens. Aberrant behavior of immune cells can predispose to inflammatory diseases and infection. This workshop aims to discuss and exchange recent findings on the molecular and cellular mechanism of skin and mucosal immune systems, as well as the development of immune cell-based therapeutic approaches, including mucosal yaccines.

WS25-01-O/P

TRPV1⁺ sensory neuron enhances dendritic cell migration to lymph nodes by a CGRP-RAMP1 axis in contact hypersensitivity

○ Masafumi Yamanaka¹¹, Otagiri Tomoki¹¹, Daisuke Kamako¹¹, Kohta Kurohane¹¹, Michio Tomura²¹, Gyohei Egawa³¹, Kenji Kabashima³¹, Eiji Umemoto¹¹

¹⁾Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka, ²⁾Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, ³⁾Department of Dermatology, Kyoto University Graduate School of Medicine

WS25-02-O/P

Role of cutaneous free fatty acids in the pathogenesis of acne vulgaris

○ Takashi Sugihira^{1,2,3)}, Seitaro Nakagawa^{1,3)}, Manabu Fujimoto³⁾, Yumi Matsuika-Nakamura^{1,3,4)}

¹⁾Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, ²⁾Basic Research Development Division, Rohto Pharmaceutical Co., Ltd., ³⁾Department of Dermatology, Graduate School of Medicine, Osaka University, ⁴⁾Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University

WS25-03-O/P

Analyses of CD8⁺ gd T cells observed in mouse psoriasis model with imiguimod application

O Himawari Matsunaga, Koichi Sudo, Kazuhiko Takahara

Laboratory of Immunobiology, Graduate school of Biostudies, Kyoto University

WS25-04-O/P

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

○ Sonoko Takahashi¹⁾, Sotaro Ochiai^{1,2)}, Jianshi Jin³⁾, Noriko Takahashi¹⁾, Susumu Toshima^{1,4)}, Harumichi Ishigame^{1,5)}, Kenji Kabashima⁶⁾, Masato Kubo^{1,7)}, Manabu Nakayama⁸⁾, Katsuyuki Shiroguchi⁹⁾, Takaharu Okada^{1,10)}

¹⁾RIKEN IMS, ²⁾Malaghan Institute of Medical Research, ³⁾Chinese Academy of Sciences, ⁴⁾Keio University, ⁵⁾Kansai Medical University, ⁶⁾Kyoto University, ⁷⁾Tokyo University of Science, ⁸⁾Kazusa DNA Research Institute, ⁹⁾RIKEN BDR, ¹⁰⁾Yokohama City University

WS25-05-O/P

Deubiquitinase OTUD3 prevents progression of ulcerative colitis by modulating microbiota-mediated STING activation in intestinal fibroblasts

O Bo Li¹⁾, Taiki Sakaguchi¹⁾, Hisako Kayama^{1,2,3)}, Kiyoshi Takeda^{1,2,4)}

¹⁾Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²⁾WPI Immunology Frontier Research Center, Osaka University, ³⁾Institute for Advanced Co-Creation Studies, Osaka University, ⁴⁾Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives, Osaka University

WS25-06-O/P

Microbiota-dependent activation of CD4⁺ T cells induces CTLA-4 blockade-associated colitis via Fcγ receptors

O Bernard Lo, Gabriel Núñez University of Michigan

WS25-07-O/P	Bacterial induction of B cell senescence promotes age-related changes in the gut microbiota Shimpei Kawamoto ¹⁾ , Ken Uemura ¹⁾ , Nozomi Hori ¹⁾ , Kazutaka Katoh ¹⁾ , Takahiro Adachi ²⁾ , Naoko Ohtani ³⁾ , Standley M. Daron ^{1,4,5)} , Wataru Suda ⁶⁾ , Shinji Fukuda ^{7,8,9,10)} , Eiji Hara ^{1,4,5)} Research Institute for Microbial Diseases, Osaka University, Pidedical Research Institute, Tokyo Medical and Dental University, Graduate School of Medicine, Osaka Metropolitan University, Pimmunology Frontier Research Center, Osaka University, Center for Infectious Disease Education and Research, Osaka University, Real University, PilkEn Center for Integrative Medical Sciences, Tinstitute for Advanced Biosciences, Keio University, Ranagawa Institute of Industrial Science and Technology, Transborder Medical Research Center, University of Tsukuba, Diversity Graduate School of Medicine
WS25-08-O/P	Commensal microorganisms cooperatively promote polyreactive S-lgA production by inducing follicular helper T cells in Peyer's patch Kisara Hattori, Daisuke Takahashi, Koji Hase Graduate School of Pharmaceutical Science, Keio University
WS25-09-O/P	Disentangling the Connection between Oral and Gut During the Intestinal Tumorigenesis Sho Kitamoto

WS26 Human immunology and immunogenetics

WPI Immunology Frontier Research Center Osaka University

13:00 ~ 14:15 Room E

Chairpersons: Kazuyoshi Ishigaki, Ai Kawana-Tachikawa

Immunology experiences great success using animal disease models. However, no animal model can completely mimic the human immune system. Therefore, we need to boost human-oriented immunological investigation in addition to model animal-oriented immunology. Moreover, human immunology is becoming an urgent topic to tackle, considering the current and future pandemics. This session highlights i) antigen-specific immune responses in the context of vaccination, infection, and autoimmunity and ii) immunogenetics based on large-scale genetics studies and transcriptome datasets using human samples.

WS26-01-O/P

CD62L expression marks SARS-CoV-2 memory B-cell subset with preference for neutralizing epitopes

□ Taishi Onodera¹¹, Yu Adachi¹¹, Ryutaro Kotaki¹¹, Takeshi Inoue²¹, Ryo Shinnakasu²¹, Saya Moriyama¹¹,
 □ Takayuki Matsumura¹¹, Masanori Isogawa¹¹, Masaharu Shinkai⁵¹, Tomohiro Kurosaki²⁻³¹, Kazuo Yamashita⁴¹,
 ○ Yoshimasa Takahashi¹¹

¹⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾Center for Infectious Diseases Education and Research, Osaka University; Osaka, Japan, ³⁾ Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, Osaka University; Osaka, Japan., ⁴⁾KOTAI Biotechnologies, Inc., ⁵⁾Tokyo Shinagawa Hospital; Tokyo, Japan

WS26-02-O/P

CD8*T-cell memory induced by SARS-CoV-2 mRNA vaccination is maintained by clonal replenishment

○ Satoshi Ueha¹¹, Hiroyasu Aoki¹¹, Masahiro Kitabatake²¹, Shigeyuki Shichino¹¹, Atsushi Hara²¹, Noriko Ouji-Sageshima²¹, Toshihiro Ito²¹, Kouji Matsushima¹¹

¹⁾Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Department of Immunology, Nara Medical University

WS26-09-O/P

Lethal Cytokine Storm and Microthrombosis Post-mRNA Booster Vaccination

○ Yuki Masuo^{1,2)}, Hiroyuki Yoshitomi¹⁾, Takao Hashiguchi^{2,4)}, Sachiko Minamiguchi⁵⁾, Takamoto Hirota⁶⁾, Kinta Hatakeyama⁷⁾, Yoshihiko Ikeda⁷⁾, Keiko Ohta-Ogo⁷⁾, Masanori Matsumoto⁸⁾, Tomoya Hayashi⁹⁾, Ken J. Ishii⁹⁾, Hideki Ueno^{1,2,3)}

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WS26-10-O/P

Profound increase of a-synuclein-specific Th17 responses in Parkinson's disease is associated with adjuvant effects of a-synuclein aggregates to dendritic cells

○ Emi Nishii¹⁾, Soichiro Yoshikawa¹⁾, Asako Chiba¹⁾, Ayami Okuzumi²⁾, Shin-ichi Ueno²⁾, Yasunobu Hoshino²⁾, Taku Hatano²⁾, Nobutaka Hattori²⁾, Sachiko Miyake¹⁾

¹⁾Department of Immunology Juntendo University Faculty of Medicine, ²⁾Department of Neurology Juntendo University Faculty of Medicine

W526-11-O/P	Quantification of the escape from X chromosome inactivation with the million cell-scale human blood single-cell RNA-seq datasets reveals heterogeneity of escape across immune cells Yoshihiko Tomofuji ^{1,3)} , Ryuya Edahiro ^{1,3)} , Yuya Shirai ¹⁾ , Kyuto Sonehara ^{1,2,3)} , Qingbo Wang ^{1,2,3)} , Atsushi Kumanogoh ¹⁾ , Yukinori Okada ^{1,2,3)} Yoshihiko Tomofuji ^{1,3)} , Ryuya Edahiro ^{1,3)} , Yuya Shirai ¹⁾ , Kyuto Sonehara ^{1,2,3)} , Qingbo Wang ^{1,2,3)} , Atsushi Kumanogoh ¹⁾ , Yukinori Okada ^{1,2,3)} Graduate School of Medicine, Pigraduate School of Medicine, The University of Tokyo, RIKEN Center for Integrative Medical Science
WS26-12-O/P	A gene expression regulatory variant in <i>CD58</i> confers susceptibility to human autoimmune diseases Yuki Hitomi ¹⁾ , Yoshihiro Aiba ²⁾ , Minoru Nakamura ^{2,3)} Department of Human Genetics, Research Institute, National Center for Global Health and Medicine, ²⁾ Clinical Research Center, National Hospital Organization (NHO) Nagasaki Medical Center, ³⁾ Department of Hepatology, Nagasaki University Graduate School of Biomedical Sciences
WS26-13-O/P	A simultaneous examination of transcriptome, mucin protein expression, and histology in Japanese childhood ulcerative colitis patients (Sosuke Kashiwagi ^{1,2)} , Tomoaki Ando ¹⁾ , Masanori Toda ^{1,2)} , Ayako Kaitani ¹⁾ , Kumi Izawa ¹⁾ , Keisuke Jimbo ²⁾ , Takahiro Kudo ²⁾ , Toshiaki Shimizu ^{1,2)} , Jiro Kitaura ¹⁾ (1)Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Department of Pediatrics, Juntendo University Graduate School of Medicine
Immune cel initiated in t immune cel develops. In	topoiesis and immune environment 13:00 ~ 14:15 Room F Chairpersons: Koichi Ikuta, Ai Kotani Is develop in the primary lymphoid organs, such as the bone marrow and thymus, and immune responses are ne secondary lymphoid organs, such as the lymph nodes and spleen. In addition, recent studies have revealed that homeostasis and function are regulated in peripheral tissues, where actual injury and infection occur and cancer this session, we will discuss the cellular and molecular mechanisms involved in the immune cell development and d their regulation by the tissue microenvironment.
WS27-01-O/P WS27-05-O/P	Evolutionary anlage of T cells and thymus in invertebrate ancestors Yosuke Nagahata ¹⁾ , Ryota Kaitani ¹⁾ , Izumi Oda ²⁾ , Yutaka Satou ²⁾ , Hiroshi Kawamoto ¹⁾ Taboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, Department of Zoology, Graduate School of Science, Kyoto University Single cell genomics revealed critical molecules affecting cell fate of human stem/progenitor cells
W327-U3-O/P	Makoto Iwasaki ^{1,2)} , Luginbuhehl Joachim ¹⁾ , Yoriko Saito ¹⁾ , Ari Itoh-Nakadai ¹⁾ , Leonard Shultz ³⁾ , Akifumi Takaori-Kondo ²⁾ , Jay Shin ¹⁾ , Fumihiko Ishikawa ¹⁾ ¹⁾ RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾ Department of Hematology and Oncology, Kyoto University, Kyoto, Japan, ³⁾ The Jackson Laboratory
WS27-07-O/P	Manipulation of HSPC lineage priming via antisense-oligonucleotide-mediated expression of Nfkbiz

Shinnosuke Yamada¹⁾, Takuya Uehata¹⁾, Kazunori Toratani¹⁾, Daisuke Ori²⁾, Osamu Takeuchi¹

¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²Laboratory of Molecular Immunobiology, Graduate School of Biological Sciences, Nara Institute of Science and Technology

WS27-08-O/P Interaction of Bcl11b with Cxxc1 is required for the establishment of the chromatin structure in thymocytes

O Kazuki Okuyama, Ichiro Taniuchi

WS27-09-O/P

Lab for Transcriptional Regulation, RIKEN IMS

Polycomb group proteins PCGF2 and PCGF4 work together during erythrocyte and megakaryocyte differentiation

O Mayumi Hirakawa, Yutaro Ohashi, Mizuki Sakihara, Tomokatsu Ikawa Tokyo University of Science

WS27-12-O/P	Semaphorin 6D maintains amygdalar neural integrity to coordinate emotional, metabolic and inflammatory outputs
	 Mayuko Izumi, Yoshimitsu Nakanishi, Atsushi Kumanogoh Department of Respiratory Medicine and Clinical Immunology, Graduate School of medicine, Osaka University
WS27-13-O/P	DNAM-1 immunoreceptor protects mice from concanavalin A-induced acute liver injury by reducing neutrophil infiltration
	O Soichi Matsuo ^{1,2)} , Tsukasa Nabekura ^{3,4)} , Kenshiro Matsuda ^{3,4)} , Kazuko Shibuya ^{1,4)} , Akira Shibuya ^{1,3,4)} 1) Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan, 2) Doctoral Program in Medical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, 3) Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, 4) R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan
WS27-14-O/P	Bone marrow microenvironment for NK cell differentiation and localization Shinya Abe ¹⁾ , Akihiro Shimba ¹⁾ , Shizue Tani-ichi ¹⁾ , Takashi Nagasawa ^{2,3,4)} , Koichi Ikuta ¹⁾

WS28 B cell (2)- fight against infectious diseases

Immunology Frontier Research Center, Osaka University

13:00 ~ 14:15 Room G

Chairpersons: Tomoharu Yasuda, Saya Moriyama

B cells mediate humoral immune responses by secreting antibodies against foreign antigens and thus play a critical role in protective immunity against various pathogens. When B cells encounter antigens in peripheral lymphoid organs, they undergo a complex series of activation and maturation processes to generate germinal center B cells, memory B cells, and antibody-secreting plasma cells. In this session, we will discuss how B cells respond to foreign antigens and contribute to protective immunity, particularly focusing on SARS-CoV-2 infection and immune responses against pathogens including vaccines, which has greatly progressed in recent years.

¹⁾Laboratory of Immune Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Frontier Biosciences, Osaka University, ³⁾Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Medicine, Osaka University, ⁴⁾Laboratory of Stem Cell Biology and Developmental Immunology, WPI

WS28-07-O/P	The contribution of IL-9 receptors on peritoneal B cells in T cell-independent immune responses Mari Tenno, Takumi Umezu, Kei Kato, Daisuke Kitamura Toyko University of Science, Research Institute of Biological Sciences (RIBS)
WS28-10-O/P	Deciphering antibody-antigen specificity by clustering complementarity determining regions Dianita Susilo Saputri ¹⁾ , Hendra Saputra Ismanto ¹⁾ , Dendi Krisna Nugraha ¹⁾ , Zichang Xu ²⁾ , Yasuhiko Horiguchi ^{1,3)} , Shuhei Sakakibara ^{2,4)} , Daron Michaelangelo Standley ^{1,2,3)} RIMD, Osaka Univ., ² IFReC, Osaka Univ., ³ CiDER, Osaka Univ., ⁴ Jikei Univ. of Health Care Sciences
WS28-11-O/P	Multimodal analysis of COVID-19, Bacterial Sepsis and mRNA vaccination cohorts reveals SARS-CoV2 specific subpopulations of activated memory B-cells David G. Priest ¹⁾ , Janyerkye Tulyeu ²⁾ , Jonas Sondergaard ²⁾ , Yuki Togami ³⁾ , Yumi Mitsuyama ⁴⁾ , Shuhei Sakakibara ⁵⁾ , Takeshi Ebihara ³⁾ , Hisatake Matsumoto ³⁾ , Hiroshi Ogura ³⁾ , James B. Wing ^{1,2)} Laboratory of Human Single Cell Immunology, iFReC, Osaka University, Pluman Single Cell Immunology Team, CiDER, Osaka University, Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, Division of Trauma and Surgical Critical Care, Osaka General Medical Center, Laboratory of Immune Regulation, iFReC, Osaka University
WS28-12-O/P	Sequential exposure to different SARS-CoV-2 antigens induces broadly neutralizing antibodies in mice and humans () Hitoshi Azuma ¹⁾ , Yohei Kawano ¹⁾ , Akifumi Higashiura ²⁾ , Yasuo Kitajima ¹⁾ , Shun Ohki ¹⁾ , Tomoharu Yasuda ¹⁾

¹⁾Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, 734-8551, Japan, ²⁾Department of Virology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, 734-8551, Japan

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Longitudinal profiling of humoral immune memory elicited by inactivated rabies virus vaccine

○ Mizuki Fujisawa^{1,2)}, Taishi Onodera²⁾, Michihito Sasaki^{3,6)}, Yukari Itakura⁶⁾, Daisuke Kuroda²⁾, Kohei Yumoto²⁾, Chidchamai Kewcharoenwong⁴⁾, Arnone Nithichanon⁴⁾, Ganjana Lertmemongkolchai⁴⁾, Tadaki Suzuki⁵⁾, Hirofumi Sawa^{6,7)}. Yoshimasa Takahashi²⁾

¹⁾Department of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineering, Waseda University (TWIns), Japan, ²⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Japan, ³⁾Division of Molecular Pathobiology, International Institute for Zoonosis Control (IIZC), Hokkaido University, Japan, ⁴⁾Department of Medical Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand, ⁵⁾Department of Pathology, National Institute of Infectious Diseases, Japan, ⁶⁾Institute for Vaccine Research and Development, Hokkaido University, Japan, ⁷⁾One Health Research Center, Hokkaido University, Japan

WS28-14-O/P

Repeated exposure to SARS-CoV-2 Omicron antigens alleviates immunological imprinting and develops Omicron-specific B cells with phenotypically distinctive features

O Ryutaro Kotaki¹⁾, Saya Moriyama¹⁾, Yu Adachi¹⁾, Eita Sasaki¹⁾, Kota Ishino¹⁾, Miwa Morikawa²⁾, Hiroaki Takei²⁾, Hidenori Takahashi²⁾, Masanori Isogawa¹⁾, Takayuki Matsumura¹⁾, Masaharu Shinkai²⁾, Yoshimasa Takahashi¹⁾

¹⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾Tokyo Shinagawa Hospital

WS28-15-O/P

In silico evolution of SARS-CoV-2 antibodies in humans increases the resilience against emerging Omicron subvariants

O Daisuke Kuroda, Saya Moriyama, Kohei Yumoto, Yu Adachi, Taishi Onodera, Yoshimasa Takahashi Research Center for Drug and Vaccine Development. National Institute of Infectious Diseases

WS28-16-O/P

The epigenetic modifier BMI-1 drives both protective and pathogenic B cell responses to malaria

○ Ke Wang¹⁾, Francis Claessens¹⁾, Kim Good-Jacobson²⁾, Ian Cockburn¹⁾

¹⁾Immunology and Infectious Disease Division, John Curtin School of Medical Research, the Australian National University, Canberra, ACT, Australia, ²⁾Department of Biochemistry and Molecular Biology, Monash University, Clayton, Victoria, Australia

Poster

○ : Presenter

January 17

WS01 Infection immunity 1 Transcriptional state of circulating neutrophils as a prediction factor for the survival fate upon lethal viral WS01-01-P ○ Riho Saito¹⁾. Tomohiko Okazaki²⁾. Yukiko Gotoh¹⁾ ¹⁾Lab. of Mol. Biol., Grad. Sch. of Pharm. Sci., Univ. of Tokyo, ²⁾Lab. of Mol. Cell Biol., Inst. for Gen. Med., Hokkaido Univ. WS01-02-O/P Immunosuppression by CXCR2+ MDSC-like cells exacerbates defense responses of the central nervous system after viral infection Akisawa Satomi¹⁾, Tomohiko Okazaki²⁾, Yukiko Gotoh¹⁾ ¹⁾Tokyo Univ., ²⁾Hokkaido Univ. WS01-03-P The expression of atypical type I interferon subsets is associated with cellular cholesterol levels and primes antiviral innate immune responses in a cell-type-specific manner ○ Tasuku Nishimura, Takahisa Kouwaki, Hiroyuki Oshiumi Department of Immunology, Graduate School of Medical Sciences, Kumamoto University Lupus brain antigen-1 (LBA1) is essential for the expression of chemokines in the innate immune WS01-04-P responses ○ Takahisa Kouwaki, Hiroyuki Oshiumi Kumamoto Univ. WS01-05-O/P A protective role of Regnase-4 in HSV-1 infection in mice O Junichi Aoki^{1,2)}, Keiko Yasuda¹⁾, Kotaro Tanaka¹⁾, Osamu Takeuchi¹⁾ ¹⁾Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾Orthopaedic Surgery, Osaka University Graduate School of Medicine WS01-06-P Identification of hepatitis B viral envelope pre-S epitopes for broadly neutralizing antibodies from convalescent individuals ○ Saya Moriyama¹⁾, Sun Lin¹⁾, Sachiyo Yoshio²⁾, Taishi Onodera¹⁾, Ryosuke Suzuki³⁾, Takanobu Kato³⁾, Masanori Isogawa¹⁾, Tatsuya Kanto²⁾, Yoshimasa Takahashi¹⁾ ¹⁾Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾Department of Liver Diseases, The Research Center for Hepatitis and Immunology, National Center for Global Health and Medicine, 3 Department of Virology II, National Institute of Infectious WS01-07-P Induction of apoptosis and inflammation by nonstructural proteins of enterovirus A71 in human neuroblastoma SH-SY5Y cells ○ Jeeraphong Thanongsaksrikul^{1,2)}, Potjanee Srimanote^{1,2)}, Onruedee Khantisitthiporn^{2,3)}, Oratai Supasorn¹⁾. Kittisak Suanpan¹⁾, Patthaya Rattanakomol¹⁾ ¹⁾Graduate Program in Biomedical Sciences, Faculty of Allied Health Sciences, Thammasat Univ., Pathum Thani, 12120, Thailand, ²⁾Thammasat University Research Unit in Molecular Pathogenesis and Immunology of Infectious Diseases, Thammasat Univ., Pathum Thani, 12120, Thailand, ³Department of Medical Technology, Faculty of Allied Health Sciences, Thammasat Univ., Pathum Thani, 12120, Thailand Functional heterogeneity and clonal alterations of cytomegalovirus-specific T cell response during WS01-08-O/P pregnancy Ayumi Taguchi^{1,2)}, Shuhei Sakakibara¹⁾, Fumi Misumi²⁾, Shunsuke Teraguchi³⁾, Takeshi Nagamatsu^{2,4)}, Mari Ichinose²⁾ David Priest¹⁾, Janyerkye Tulyeu¹⁾, Jonas Nørskov Søndergaard^{1,5)}, Takayuki Iriyama²⁾, Yutaka Osuga²⁾, James Wing^{1,5)} ¹⁾WPI Immunology Frontier Research Center, Osaka University, ²⁾Department of Obstetrics and Gynecology, Graduate School of Medicine, The University of Tokyo, ³⁾Faculty of Data Science, Shiga University, ⁴⁾Department of Obstetrics and Gynecology, International University of Health and Wealth, ⁵⁾Center for Infectious Disease Education and Research, Osaka University

WS01-09-O/P

Single-cell transcriptomics revealed the expansion of skin-homing lymphocytes in natural dengue infection one day before defervescence

O Anunya Opasawatchai^{1,2,3,4)}, Jantarika Kumar Arora⁵⁾, Tiraput Poonpanichakul⁶⁾, Natnicha Jiravejchakul⁶⁾, Waradon Sungnak^{3,4,6)}, Denfree Consortium, Oranart Matangkasombut⁷⁾, Sarah A. Teichmann⁸⁾, Ponpan Matangkasombut^{4,6)}, Varodom Charoensawan^{3,4,5)}

¹⁾Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Japan, ²⁾Department of Oral Microbiology, Faculty of Dentistry, Mahidol University, Thailand, ³⁾Integrative Computational Bioscience (ICBS) Center, Mahidol University, Thailand, ⁴⁾Systems Biology of Diseases Research Unit, Faculty of Science Mahidol University, Thailand, ⁵⁾Department of Biochemistry, Faculty of Science, Mahidol University, Thailand, ⁶⁾Department of Microbiology and Center of Excellence on Oral Microbiology and Immunology, Faculty of Dentistry, Chulalongkorn University, Thailand, ⁸⁾Wellcome Sanger Institute, Wellcome Trust Genome Campus, UK

WS01-10-P

Analysis of type 2 immune response against tick skin infestation in mice

○ Maki Mizumura^{1,2)}, Tetsuro Kobayashi¹⁾, Kayoko Yamaji³⁾, Hirotaka Kanuka³⁾, Kazuyo Moro^{1,4,5)}

¹⁾Laboratory for Innate Immune systems, Center for Integrative Medical Sciences, RIKEN, ²⁾Department of Medical Life Science, Graduate School of Medial Life Science, Yokohama City University, ³⁾Department of Tropical Medicine, Jikei University School of Medicine, ⁴⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ⁵⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC)

WS01-11-P

Investigation of *Plasmodium* transcription factors as a druggable target

Rashmi Dash^{1,2)}, Hideo Negishi^{3,4)}, Michelle SJ Lee^{1,4)}, Ken J. Ishii^{3,4)}, Shiroh Iwanaga⁵⁾, Cevayir Coban^{1,2,4)}

Division of Malaria Immunology, Institute of Medical Science (IMSUT), University of Tokyo, Graduate School of Frontier Science, The University of Tokyo, Department of Vaccine Science, IMSUT, International Vaccine Design Center, IMSUT, Department of Protozoology, RIMD, Osaka University

WS01-12-O/P

Temporal changes in gastrointestinal mucosal immune system during *Plasmodium* Infection

O Mariko Kamioka^{1,2)}, Julia Matsuo-Dapaah^{1,3)}, Michelle Sue Jann Lee^{1,4)}, Cevayir Coban^{1,3,4)}

¹⁾Division of Malaria Immunology, Department of Microbiology and Immunology, Institute of Medical Science, University of Tokyo (IMSUT), ²⁾JSPS Research Fellowship for Young Scientists, Japan Society for the Promotion of Science, ³⁾Graduate School of Medicine, The University of Tokyo, ⁴⁾International Vaccine Design Center, Institute of Medical Science, The University of Tokyo (IMSUT)

WS01-13-P

Effects of malaria on bone marrow lymphopoietic niche

○ Michelle Sue Jann Lee^{1,2)}, Camila del Rosario Zorilla¹⁾, Julia Matsuo Dapaah¹⁾, Yoshiki Omatsu^{3,4)}, Takashi Nagasawa^{3,4)}, Ken J. Ishii^{2,5)}, Cevayir Coban^{1,2)}

¹⁾Division of Malaria Immunology, 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 Stem Cell Biology and Developmental Immunology, WPI Immunology Frontier Research Center, Osaka University, ⁴⁾Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Frontier Biosciences and Graduate School of Medicine, Osaka University, ⁵⁾Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo

WS01-14-O/P

CD4+ T cells specific for the Plasmodium falciparum circumsporozoite protein form resident memory population in the liver and may directly kill liver stage parasites in vivo

○ Hannah Gabrielle Kelly¹¹, Xin (Andy) Gao¹¹, Patricia Carreira¹¹, Ines Atmosukarto²¹, Mireille Lahoud³³, Irene Caminschi³³, Lynette Beattie⁴¹, Ian Cockburn¹¹

¹⁾Department of Immunology and Infectious Disease, John Curtin School of Medical Research, The Australian National University, Canberra, ACT 2601, Australia, ²⁾Lipotek Pty Ltd, Canberra, ACT 2601, Australia, ³⁾Department of Biochemistry and Molecular Biology, Monash Biomedicine Discovery Institute, Monash University, VIC 3800, Australia, ⁴⁾Department of Microbiology and Immunology, Peter Doherty Institute for Infection and Immunity, Parkville, VIC 3010, Australia

WS01-15-P

Transcriptomic analysis identified cell autonomous immunity genes in the olfactory bulb during experimental cerebral malaria

○ Julia Matsuo-Dapaah^{1,2)}, Michelle Sue Jann Lee^{1,3)}, Manabu Ozawa⁴⁾, Masahiro Yamamoto⁵⁾, Ken J Ishii^{3,6)}, Cevayir Coban^{1,2,3)}

¹⁾Division of Malaria Immunology, Institute of Medical Science, University of Tokyo, ²⁾Graduate School of Medicine, University of Tokyo, ³⁾International Vaccine Design Center, Institute of Medical Science, University of Tokyo, ⁴⁾Laboratory of Reproductive Systems Biology, Institute of Medical Science, University of Tokyo, ⁵⁾Department of Immunoparasitology, WPI Immunology Frontier Research Center, Osaka University, ⁶⁾Division of Vaccine Science, Institute of Medical Science, The University of Tokyo

WS01-16-O/P

Microbial-ligand independent regulation of lymphopoiesis by NOD1

Chiaki Iwamura^{1,2)}, Toshinori Nakayama¹⁾, Alan Sher²⁾, Dragana Jankovic²⁾

¹⁾Chiba University, ²⁾National Institute of Health

WS01-17-P

Induction of liver resident memory CD8⁺ T cells and protection against liver stage malaria by mRNA contained lipid nanoparticles

O Sayuri Nakamae^{1,2)}, Satoshi Miyagawa^{2,3)}, Koki Ogawa⁴⁾, Jiun-Yu Jian²⁾, Awet Alem Teklemichael²⁾, Mayumi Taniguchi²⁾, Tomonari Masuda⁴⁾, Takeshi Annoura⁵⁾, Katsuyuki Yui⁶⁾, Kenji Hirayama⁷⁾, Shigeru Kawakami⁴⁾, Shusaku Mizukami^{2,7)}

¹⁾Dept. of Clin. Prod. Dev., Div. of Clin. Med. and Res., Inst. Trop. Med., Nagasaki University, ²⁾Dept. of Immune Regulation, Shionogi Glob. Infect. Dis. Div., Inst. Trop. Med., Nagasaki Univ., ³⁾Lab. for Drug Discovery and Dis. Res., SHIONOGI & CO., LTD., ⁴⁾Dept. of Pharmaceutical Informa., Grad. Sch. of Biomed. Sci., Nagasaki Univ., ⁵⁾Dept. of Parasitol., Natl. Inst. of Infect. Dis., ⁶⁾Shionogi Glob. Infect. Dis. Div., Inst. Trop. Med., Nagasaki Univ., ⁷⁾Sch. of Trop. Med. and Glob. Health. Nagasaki Univ.

WS01-18-P

Distinct T helper Cell Responses as the Defense Strategies of *Opisthorchis viverrini* infected BALB/c Mice and Golden Syrian Hamsters

O Pattaraporn Srisai^{1,2)}, Amonrat Jumnainsong³⁾, Sujittra Chaiyadet^{1,2)}, Chanvit Leelayuwat³⁾, Sutas Suttiprapa^{1,2)}, Prasert Saichua^{1,2)}

¹⁾Department of Tropical Medicine, Faculty of Medicine, Khon Kaen University, Khon Kaen 40002, Thailand, ²⁾Tropical Disease Research Center, WHO Collaborating Centre for Research and Control of Opisthorchiasis, Khon Kaen University, Khon Kaen 40002, Thailand, ³⁾The Centre for Research and Development of Medical Diagnostic Laboratories (CMDL), Faculty of Associated Medical Sciences, Khon Kaen University, Khon Kaen, 40002, Thailand

WS01-19-O/P

Unveiling *Opisthorchis viverrini* Tetraspanins: Key player in Extracellular Vesicle-Mediated Host-Parasite interaction

○ Sujittra Chaiyadet¹⁾, Wuttipong Phumrattanaprapin²⁾, Javier Sotillo³⁾, Michael Smout⁴⁾, Thewarach Laha²⁾, Alex Loukas⁴⁾

¹⁾Department of Tropical Medicine, Faculty of Medicine, Khon Kaen University, Thailand, ²⁾Department of Parasitology, Faculty of Medicine, Khon Kaen University, Thailand., ³⁾National microbiology entre, Instituto de salud Carlos III, Madrid, Spain, ⁴⁾Australian Institute of Tropical Health and Medicine, James Cook University, Australia

WS01-20-P

The Degradation of Human IgG by Opisthorchis viverrni

O Prasert Saichua^{1,2)}, Mantana Panpoom^{1,2)}, Pattaraporn Srisai^{1,2)}, Amonrat Jumnainsong³⁾, Sutas Suttiprapa^{1,2)}, Banchob Sripa^{1,2)}

¹⁾Department of Tropcal Medicine, Faculty of Medicine, Khon Kaen University, 40002, Thailand, ²⁾Tropical Disease Research Center, WHO Collaborating Centre for Research and Control of Opisthorchiasis, Khon Kaen University, Khon Kaen, 40002, Thailand, ³⁾The Centre for Research and Development of Medical Diagnostic Laboratories (CMDL), Faculty of Associated Medical Sciences, Khon Kaen University, Khon Kaen, 40002, Thailand

WS01-21-P

The age-related decline in Th2 immune response begins in mice at six months of age

¹⁾School of Food Industrial Sciences, Miyagi University, ²⁾Graduate School of Agricultural Sciences, Tohoku University

WS01-22-P

New insights into the role of adiponectin during helminth infection

○ Siranart Jeerawattanawart^{1,2)}, Adithap Hansakon³⁾, Sittiruk Roytrakul⁴⁾, Pornpimon Angkasekwinai^{2,5)}

¹⁾Graduate Program in Biomedical Sciences, Faculty of Allied Health Sciences, Thammasat University, Pathum Thani 12120 Thailand.,
²⁾Department of Medical Technology, Faculty of Allied Health Sciences, Thammasat University, Pathum Thani 12120 Thailand.,
³⁾Chulabhorn International College of Medicine, Thammasat University, Pathum Thani 12120 Thailand.,
⁴⁾Functional Proteomics Technology Laboratory, National Science and Technology Development Agency, Pathum Thani 12120 Thailand.,
⁵⁾Research Unit in Molecular Pathogenesis and Immunology of Infectious Diseases, Thammasat University, Pathum Thani 12120 Thailand.

WS01-23-P

Schistosoma mansoni alleviates collagen-induced arthritis in an IL-5 dependent manner

O Yoshio Osada, Kentaro Morita, Shoichi Shimizu

Dept. of Immunology and Parasitology, Univ. of Occupational and Environmental Health, Japan

WS01-24-P

Induction of *Anisakis*-specific IgE dependent on commensal bacteria in stomach during gastric *Anisakis* infection

Chikako Shimokawa¹⁾, Tadashi Takeuchi²⁾, Tamotsu Kato²⁾, Hiromu Sugiyama¹⁾, Hiroshi Ohno²⁾, Hajime Hisaeda¹⁾ Department of Parasitology, National Institute of Infectious Diseases, ²⁾Laboratory for Intestinal Ecosystem, RIKEN Center for Integrative Medical Sciences

WS01-25-P

Plasmodium berghei ANKA infected C57BL/6N mice suffer from pathological lesions and lymphopenia in the intestine

○ Tomoyo Taniguchi^{1,2,3,4)}, Momo Hasunuma³⁾, Izumi Ikezawa²⁾, Jun Saitoh²⁾, Hiromu Toma¹⁾, Hiroshi Suzuki²⁾, Hajime Hisaeda⁵⁾, Hidehiro Kishimoto¹⁾

¹⁾Department of Immunology and Parasitology, Graduate School of Medicine, University of the Ryukyus, ²⁾Functional genomics, NRCPD, Obihiro University of Agriculture and Veterinary Medicine, ³⁾Department of Parasitology, Graduate School of Medicine, Gunma University, ⁴⁾Center for Medical Education, Graduate School of Medicine, Gunma University, ⁵⁾Department of Parasitology, NIID

January 17

WS02 Systemic autoimmune diseases

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Immunophenotypic Categorization: A New Approach to Systemic Immune-Mediated Diseases

○ Shinji Izuka¹⁾, Toshihiko Komai¹⁾, Takahiro Itamiya¹⁾, Mineto Ota^{1,2)}, Saeko Yamada¹⁾, Yasuo Nagafuchi^{1,2)}, Hirofumi Shoda¹⁾, Kosuke Matsuki³⁾, Kazuhiko Yamamoto⁴⁾, Tomohisa Okamura^{1,2)}, Keishi Fujio¹⁾

¹⁾Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, ²⁾Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, Japan, ³⁾Research Division, Chugai Pharmaceutical Co., Ltd., Yokohama, Kanagawa, Japan., ⁴⁾Laboratory for Autoimmune Diseases, Center for Integrative Medical Sciences, the Institute of Physical and Chemical Research (RIKEN), Japan

WS02-02-P

Precision Medicine Advancements in Systemic Lupus Erythematosus: Unveiling Disease Heterogeneity through Gene Modules and Advanced Machine Learning

O Rifaldy Fajar, Sahnaz Vivinda Putri, Asfirani Hasan Umarullah

Computational Biology and Medicine Laboratory, Yogyakarta State University, Indonesia

WS02-03-P

Lack of MASP-1 results in delayed onset of renal dysfunction and prolonged survival in lupus-prone MRL/ lpr mice

Takeshi Machida, Hiroto Monoe, Yumi Ishida, Teizo Fujita, Hideharu Sekine Department of Immunology. Fukushima Medical University

WS02-04-O/P

Pathogenetic role of IFN γ producing CD4+T cells in lupus model mice induced by TLR7 agonist imiquimod

O Reona Tanimura, Yuya Kondo, Ryota Sato, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Takayuki Sumida, Isao Matsumoto

Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS02-05-P

Pathogenic relevance of transcription factor T-bet in lupus model mice induced by Toll-like receptor 7 agonist imiquimod

Ryota Sato, Yuya Kondo, Reona Tanimura, Hiromitsu Asashima, Haruka Miki, Hiroto Tsuboi, Isao Matsumoto Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS02-06-O/P

Identification of a novel age-associated CD4⁺ T cell subset involved in the pathogenesis of systemic lupus erythematosus

○ Manaka Goto¹⁾, Hideyuki Takahashi¹⁾, Ryochi Yoshida¹⁾, Takahiro Itamiya^{1,2)}, Masahiro Nakano^{3,4)}, Kazuyoshi Ishigaki³⁾, Mineto Ota¹⁾, 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, ³⁾Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan, ⁴⁾Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, Yokohama, Kanagawa, Japan

WS02-07-P

NRP-1⁺ helper T cells promote the expansion of CD11c⁺ B cells and orchestrate IgG antibody-mediated autoimmune diseases

○ Eiichiro Amano^{1,2)}, Ben JE Raveney¹⁾, Takashi Yamamura¹⁾, Shinji Oki¹⁾

¹⁾Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, ²⁾Tokyo Medical and Dental University, Department of Neurology and Neurological Science

WS02-08-P	Analysis of the relationship between changes in the gut microbiota and the production of autoantibodies Kunihiro Hayakawa, Maki Fujishiro Institute for Environmental and Gender-Specific Medicine, Juntendo University Graduate School of Medicine
WS02-09-P	Human umbilical cord mesenchymal stem cells dose-dependently improve lupus nephritis in a mouse model
	Shogo Matsuda, Takuya Kotani, Tohru Takeuchi Division of Rheumatology, Osaka Medical and Pharmaceutical University
WS02-10-P	Inhibitory anti-TLR7 ameliorates autoimmune diseases in various mouse models
	Ryutaro Fukui ¹⁾ , Yusuke Murakami ^{1,2)} , Reika Tanaka ¹⁾ , Atsuo Kanno ¹⁾ , Yuji Motoi ¹⁾ , Kensuke Miyake ¹⁾ Division of Innate Immunity, The Institute of Medical Science, The University of Tokyo, ²⁾ Faculty of Pharmacy, Department of Pharmaceutical Sciences & Research Institute of Pharmaceutical Sciences, Musashino University
WS02-11-O/P	Analysis of patrolling monocytes that drive lupus nephritis
	Reika Tanaka ¹⁾ , Yusuke Murakami ^{1,2)} , Ryutaro Fukui ¹⁾ , Shigeru Kakuta ³⁾ , Kensuke Miyake ¹⁾ Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, ²⁾ Faculty of Pharmacy, Department of Pharmaceutical Sciences & Research Institute of Pharmaceutical Sciences, Musashino University, ³⁾ Laboratory of Biomedical Science, Graduate School of Agricultural and Life Sciences, The University of Tokyo
WS02-12-P	Role of the interaction of CD72 with C1q in the regulation of B cell responses to apoptotic cells in SLE
	Takahiro Tsuneshige ^{1,2,3)} , Chiuru Akatsu ²⁾ , Hideharu Sekine ⁴⁾ , Nobutoshi Ito ²⁾ , Takeshi Tsubata ^{1,2,3)} Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University, Department of Structural Biology, Medical Research Institute, Tokyo Medical and Dental University, Department of Pathology, Nihon University School of Dentistry, Department of Immunology, Fukushima Medical University School of Medicine
WS02-13-O/P	The COMMD3/8 complex drives plasmablast differentiation of age-associated B cells in lupus
	Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2)} , Kentaro Kuzuya ¹⁾ , Kazuhiro Suzuki ^{1,2,3)} Taiichiro Shirai ^{1,2,3)} , Taiichiro Shirai ^{1,2,3)} Taiichiro Shirai ^{1,2,3)} , Kentaro Kuzuya ^{1,2,3)} Taiichiro Shirai ^{1,2,3)} , Taiichiro Shirai ^{1,2,3)} Taiichiro Shirai ^{1,2,3} , Taiichiro Shirai ^{1,2,3)} Taiichiro Shirai ^{1,2,3} , Taiich
WS02-14-P	Pathophysiology of a mouse model of fulminant pneumonitis with increased anti-MDA5 antibodies
W302 141	Ayae Tanaka ¹⁾ , Takayoshi Owada ²⁾ , Nobuhide Tsuruoka ³⁾ , Toshibumi Taniguchi ⁴⁾ , Hirokuni Hirata ²⁾ ,
	Kazuhiro Kurasawa ¹⁾ , Kei Ikeda ¹⁾ , Masafumi Arima ¹⁾ Department of Rheumatology, Dokkyo Medical University School of Medicine, ²⁾ Department of Respiratory Medicine and Clinical Immunology, Dokkyo Medical University Saitama Medical Center, ³⁾ Department of Reproductive Medicine, Graduate School of Medicine, Chiba University,
	⁴⁾ Department of Infectious Diseases Chiba University Hospital
WS02-15-O/P	Single-cell multi-omics analysis identifies two distinct phenotypes of newly-onset MPO-ANCA associated vasculitis
	Masayuki Nishide ^{1,2,3} , Masashi Narazaki ^{1,3} , Atsushi Kumanogoh ^{1,2} Department of Respiratory Medicine and Clinical Immunology, Osaka University Graduate School of Medicine, ²⁾ Department of Immunopathology, World Premier International Research Center Initiative (WPI), Immunology Frontier Research Center (IFReC), Osaka University, ³⁾ Department of Advanced Clinical and Translational Immunology, Osaka University Graduate School of Medicine
WS02-16-O/P	Immunological signature shared by Adult-onset Still's disease and other autoinflammatory diseases
	revealed by transcriptome analysis
	Ikuo Takazawa ¹⁾ , Haruka Tsuchiya ¹⁾ , Takahiro Itamiya ^{1,2)} , Harumi Shirai ¹⁾ , Yumi Tsuchida ¹⁾ , Yasuo Nagafuchi ^{1,2)} , Hirofumi Shoda ¹⁾ , Tomohisa Okamura ^{1,2)} , Keishi Fujio ¹⁾ Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ² Department of Functional Genomics and
	Immunological Diseases, Graduate School of Medicine, The University of Tokyo
WS02-17-P	CD153 ⁺ CD4 ⁺ T cells and CD30 ⁺ cells exacerbate the autoimmune pathology in salivary glands of Sjögren's
	syndrome (Vunibira Otauka ^{1,2}) Hirawuki Kanda ¹⁾ Chia jahi Taukuma ¹⁾ Aya Habia ²⁾ Nagrumi Jahimayu ²⁾ Kaji Yasutama ¹⁾
	Kunihiro Otsuka ^{1,2)} , Hiroyuki Kondo ¹⁾ , Shin-ichi Tsukumo ¹⁾ , Aya Ushio ²⁾ , Naozumi Ishimaru ²⁾ , Koji Yasutomo ¹⁾ Department of Immunology and Parasitology, Tokushima University Graduate School of Biomedical Sciences, ²⁾ Department of Oral Molecular Pathology, Tokushima University Graduate School of Biomedical Sciences

WS02-18-P	Pathological analysis of nasal lesions with aging in murine models of Sjögren's syndrome Kai Tamura ¹ , Yuki Kawahito ¹ , Mami Sato ² , Kunihiro Otsuka ² , Aya Ushio ² , Takaaki Tsunematsu ² ,
	Naozumi Ishimaru ²⁾ ¹⁾ Department of Oral Molecular pathology, Faculity of Dentistry, Tokushima University, ²⁾ Department of Oral Molecular pathology, Graduate school of Biomedical Sciences, Tokushima University
WS02-19-P	The Relation between the Reduction of Mucin 19 and the Onset of Sjögren's Syndrome in a Mouse Model
	○ Yuki Kawahito ¹⁾ , Kai Tamura ¹⁾ , Mami Sato ²⁾ , Kunihiro Otsuka ²⁾ , Aya Ushio ²⁾ , Takaaki Tsunematsu ²⁾ , Naozumi Ishimaru ²⁾
	¹⁾ Department of Oral Molecular Pathology, Faculty of Dentistry, Tokushima University, ²⁾ Department of Oral Molecular Pathology, Graduate School of Biomedical Sciences, Tokushima University
WS02-20-P	Analysis of the suppression mechanism for activated T cells via co-inhibitory receptors in Sjögren's syndrome
	Ruka Nagao ¹⁾ , Akiko Yamamoto ²⁾ , Aya Ushio ¹⁾ , Kunihiro Otsuka ¹⁾ , Hiroaki Tawara ¹⁾ , Shigefumi Matsuzawa ³⁾ , Kai Tamura ⁴⁾ , Yuhki Kawahito ⁴⁾ , Takaaki Tsunematsu ¹⁾ , Naozumi Ishimaru ¹⁾
	¹⁾ Graduate School of Biomedical Sciences, Department of Oral Molecular Pathology, Tokushima Univ., ²⁾ Department of Pathology, Nihon Univ. School of Dentistry, ³⁾ Oral and Maxillofacial Radiology, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu Univ., ⁴⁾ Department of Dentistry, Faculty of Dentistry, Tokushima Univ.
WS02-21-P	Functional analysis of autoreactive T cell and autoantibody participated in the pathogenesis of Sjögren's syndrome
	Mana Iizuka ¹⁾ , Satoru Takahashi ^{2,3)} , Isao Matsumoto ⁴⁾ , Takayuki Sumida ⁴⁾ , Akihiko Yoshimura ¹⁾ Department of Microbiology and Immunology, Keio University School of Medicine, ²⁾ Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, ³⁾ Laboratory Animal Resource Center, University of Tsukuba, ⁴⁾ Department of Internal Medicine, Faculty of Medicine, University of Tsukuba
WS02-22-O/P	Signaling pathways via TLR4 are involved in 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, Tsutomu Takeuchi, Yuko Kaneko Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine
January 17	
WS03 Macrop	phages and other innate immune cells in homeostasis
WS03-01-O/P	MAFB in macrophages suppress inflammation via ALOX15 in Acute Kidney Injury
	○ Maho Kanai ¹⁾ , Teppei Nishino ¹⁾ , Akari Kimura ¹⁾ , Toshiaki Usui ^{1,2)} , Naoki Morito ^{1,2)} , Michito Hamada ¹⁾ , Satoru Takahashi ¹⁾
	¹⁾ Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, ²⁾ Department of Nephrology, Faculty of Medicine, University of Tsukuba
WS03-02-O/P	Clathrin heavy chain regulates NLRP3 inflammasome formation via endocytosis in macrophages
	O Hung Hiep Huynh ¹⁾ , Fumiyuki Sasaki ¹⁾ , Masumi Shimizu ¹⁾ , Akihiko Yoshimura ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, ²⁾ Keio University School of Medicine
WS03-03-P	Gelsolin negatively regulates NLRP3 inflammasome activation by stabilizing mitochondria
	Rimpei Morita ¹⁾ , Jiyeon Lee ²⁾ , Masumi Shimizu ¹⁾ , Fumiyuki Sasaki ¹⁾ , Akihiko Yoshimura ³⁾ , Lark Kyun Kim ²⁾ Nippon Medical School, ²⁾ Yonsei University College of Medicine, ³⁾ Keio University School of Medicine
WS03-04-P	Gelsolin from macrophages is required for fibroblast migration during skin wound healing
	○ Eri Toyohara ^{1,2)} , Fumiyuki Sasaki ²⁾ , Teruyuki Dohi ¹⁾ , Rei Ogawa ¹⁾ , Rimpei Morita ²⁾ Department of Plastic, Reconstructive and Regenerative Surgery, Nippon Medical School, Tokyo, Japan, ²⁾ Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan
January 17 WS03 Macrop WS03-01-O/P WS03-02-O/P	Mana lizuka¹), Satoru Takahashi²³, Isao Matsumoto¹, Takayuki Sumida⁴, Akihiko Yoshimura¹¹ ¹¹Department of Microbiology and Immunology, Keio University School of Medicine, ¹¹Department of Anatomy and Embryology, Faculty Medicine, University of Tsukuba, ¹¹Laboratory Animal Resource Center, University of Tsukuba, ¹¹Department of Internal Medicine, Faculty Medicine, University of Tsukuba Signaling pathways via TLR4 are involved in elevated expression of BAFF receptor, BR3, in periphe monocytes of patients with primary Sjögren's syndrome ⟨ Keiko Yoshimoto, Yumi Ikeda, Katsuya Suzuki, Hiroyuki Fukui, Kotaro Matsumoto, Masaru Takeshita, Tsutomu Takeuchi, Yuko Kaneko Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine MAFB in macrophages suppress inflammation via ALOX15 in Acute Kidney Injury ⟨ Maho Kanai¹², Teppei Nishino¹⟩, Akari Kimura¹⟩, Toshiaki Usui¹²², Naoki Morito¹²², Michito Hamada¹¹, Satoru Takahashi¹¹¹ ¹¹Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba Clathrin heavy chain regulates NLRP3 inflammasome formation via endocytosis in macrophages ⟨ Hung Hiep Huynh¹¹¹, Fumiyuki Sasaki¹¹, Masumi Shimizu¹¹, Akihiko Yoshimura²², Rimpei Morita¹¹ ¹¹Department of Microbiology and Immunology, Nippon Medical School, ²¹Keio University School of Medicine Gelsolin negatively regulates NLRP3 inflammasome activation by stabilizing mitochondria ⟨ Rimpei Morita¹¹, Jiyeon Lee², Masumi Shimizu¹¹, Fumiyuki Sasaki¹¹, Akihiko Yoshimura³, Lark Kyun Kim²¹ ¹¹Nippon Medical School, ²³Yonsei University College of Medicine, ³³Keio University School of Medicine Gelsolin from macrophages is required for fibroblast migration during skin wound healing ⟨ Eri Toyohara¹²², Fumiyuki Sasaki², Teruyuki Dohi¹¹, Rei Ogawa¹¹, Rimpei Morita²³ ¹¹Department of Plastic, Reconstructiva and Regenerative Surgery, Nippon Medical School, Tokyo, Japan, ²¹Department of Microbiology

WS03-05-O/P	FoxO1 regulates the number of basophils in the peripheral tissues and basophil-dependent allergic inflammation
	Junya Ito ¹⁾ , Kensuke Miyake ¹⁾ , Kazufusa Takahashi ¹⁾ , Shigeyuki Shichino ²⁾ , Hajime Karasuyama ¹⁾ ¹⁾ Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University, ²⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute of Biomedical Sciences, Tokyo University of Science
WS03-06-P	Roles of C/EBP α , GATA2, TGF- β -signaling, and epigenetic regulation in expression of basophil-specific protease genes, <i>Mcpt8</i> and <i>Mcpt11</i>
	Ryotaro Tojima, Takahiro Arai, Tomoka Ito, Naoto Ito, Kazumi Kasakura, Kazuki Nagata, Chiharu Nishiyama Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science
WS03-07-O/P	CD300a immunoreceptor exacerbates acute kidney injury and fibrosis after renal ischemia and
	reperfusion in mice — Hitoshi Koizumi ^{1,2)} , Chigusa Nakahashi-Oda ^{1,4)} , Kazuko Shibuya ^{1,4)} , Akira Shibuya ^{1,3,4)}
	¹⁾ Department of Immunology, Faculty of Medicine, University of Tsukuba, ²⁾ Doctoral Program in Graduate School of Comprehensive Human Sciences, University of Tsukuba, ³⁾ Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, ⁴ P&D Center for Innovative Drug Discovery, University of Tsukuba
WS03-08-O/P	Sphingosine-1-phosphate lyase SGPL1 is required for NLRP3 inflammasome activation via the dynamic
	organization of endoplasmic reticulum and microtubules
	 Fumiyuki Sasaki, Masumi Shimizu, Rimpei Morita Department of Microbiology and Immunology, Nippon Medical School, Tokyo, Japan
WS03-09-P	"Immunosuppessive" Cannabinoid CB2 receptors take "Immunoactive" role in high-fat diet evoked systemic inflammatory response
	Chihiro Nozaki ¹⁾ , Haruka Hosoki ²⁾ , Andreas Zimmer ³⁾
	¹⁾ Waseda University, Faculty of Science and Engineering, Global Center for Science and Engineering, ²⁾ Waseda University, Faculty of Science and Engineering, Department of Advanced Science and Engineering, ³⁾ University of Bonn, Institute of Molecular Psychiatry
WS03-10-O/P	The onset of parturition is delayed in fetal macrophage-deficient mice
	 Sunao Matsuzaka, Haruta Mogami, Yosuke Kawamura, Yu Matsuzaka, Eriko Yasuda, Asako Inohaya, Masahito Takakura, Yoshitsugu Chigusa, Masaki Mandai Department of Gynecology and Obstetrics, Kyoto University Graduate School of Medicine
WS03-11-O/P	CD300a immunoreceptor exacerbates heart injury and adverse remodeling after myocardial infarction
	and reperfusion in mice
	Nanako Nishiyama ¹⁾ , Chigusa Nakahashi-Oda ^{1,3)} , Akira Shibuya ^{1,2,3)} , Kazuko Shibuya ^{1,3)} ¹¹Department of Immunology, Faculty of Medicine, University of Tsukuba, ²¹Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, ³¹R&D Center for Innovative Drug Discovery, University of Tsukuba
WS03-12-O/P	A stress sensor IRE1 α is required for bacterial exotoxin-induced inflammasome activation in tissue-resident macrophages
	○ Izumi Sasaki¹¹, Yuri Fukuda-Ohta¹¹, Shuhei Morita²¹, Daisuke Okuzaki³³, Takashi Kato¹¹, Koichi Furukawa⁴¹, Tsuneyasu Kaisho¹¹
	¹⁾ Department of Immunology, Institute of Advanced Medicine, Wakayama Medical University, Wakayama, Japan, ²⁾ First Department of Medicine, Wakayama Medical University, Wakayama, Japan, ³⁾ Genome Information Research Center, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, ⁴⁾ Department of Lifelong Sports and Health Sciences, Chubu University College of Life and Health Sciences, Kasugai, Japan
WS03-13-P	Proteasome dysfunction in adipocytes induces lipodystrophy and autoinflammation
	 Rinna Koga, Junko Morimoto, Kunihiro Otsuka, Koji Yasutomo Department of Immunology and Parasitology, Graduate School of Medicine, Tokushima University
WS03-14-P	Murine model identifies tropomyosin as IgE cross-reactive protein between house dust mite and coho salmon that possibly promotes the development of the related allergy
	Ayako Kaitani ¹⁾ , Risa Yamamoto ¹⁾ , Kumi Izawa ¹⁾ , Tomoaki Ando ¹⁾ , Atsushi Tanabe ¹⁾ , Hiromichi Yamada ^{1,2)} , Shino Uchida ¹⁾ , Akihisa Yoshikawa ^{1,3)} , Akie Maehara ¹⁾ , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Jiro Kitaura ¹⁾ ¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾ Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine

WS03-15-P	A DNA Repair Enzyme O ⁶ -Methylguanine DNA Methyltransferase (MGMT) Regulates Inflammatory Response, Autophagy and Innate Immune Memory in Macrophages
	O Palaga Tanapat ^{1,2)} , Salisa Benjaskulluecha ^{1,2,3)} , MdFazlul Haque ^{1,2)} , Benjawan Wongprom ^{1,2)} , Thitiporn Pattarakankul ^{1,2)} , Kittitach Sri-ngern-ngam ^{1,2)} , Atsadang Boonmee ^{1,2)}
	¹⁾ Department of Microbiology, Faculty of Science, Chulalongkorn University, ²⁾ Center of Excellence in Immunology and Immune-mediated Diseases, Chulalongkorn University, ³⁾ Interdisciplinary Graduate Program in Medical Microbiology, Graduate School, Chulalongkorn Univers
WS03-16-P	Glycolaldehyde derived advanced glycation end products suppress STING signaling in macrophage Takashi Nishinaka ¹⁾ , Omer Faruk Hatipoglu ¹⁾ , Hidenori Wake ¹⁾ , Masahiro Watanabe ²⁾ , Takao Toyomura ²⁾ , Shuji Mori ²⁾ , Masahiro Nishibori ³⁾ , Hideo Takahashi ¹⁾ Department of Pharmacology, Kindai University, Faculty of Medicine, ²⁾ Department of Pharmacology, School of Pharmacy, Shujitsu University, Department of Translational Research & Drug Development, Faculty of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama University
WS03-17-P	The anti-TLR4 mAb Sa15-21 enhance the response of TLR ligands
	 Bristy Basak, Sajid Iftekhar Chowdhury, Masanori Inui, Tatsuya Yamazaki, Susumu Tomono, Sachiko Akashi Takamura Aichi Medical University, Microbiology and Immunology
WS03-18-P	The effects of diazinon on cellular metabolism in macrophages
	O Nanami Yoshida, Miyoko Matsushima, Nodoka Shimasaki, Hinata Taniguchi, Hina Kawashima, Sayaka Takagi,
	Fuzuki Hayashi, Tsutomu Kawabe Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System
WS03-19-P	Functional analysis of Nitrated tryptophan proteins in M1-polarized macrophages
	○ Eri Shimura ¹⁾ , Ayako Shigenaga ²⁾ , Aiki Murayama ¹⁾ , Tomoya Nakagawa ¹⁾ , Ryo Ishihara ¹⁾ , Takeshi Baba ¹⁾ , Fumiyuki Yamakura ³⁾
	¹⁾ Faculty of Medicine, Juntendo University, ²⁾ Institute of Health Sports Science & Medicine, Juntendo University, ³⁾ Faculty of Health Science, Juntendo University
January 1	7
WS04 Inna	te immunity
WS04-01-O/P	Microbiome ssRNA as an environmental cue to activate TLR13-dependent tissue-protective programs in CD5L/AIM ^{bi} hepatic macrophages
	O Ryota Sato ¹), Kaiwen Liu ¹), Takuma Shibata ¹), Ryutaro Fukui ¹), Katsuaki Hoshino ²), Toshikazu Kondo ³),
	Toru Miyazaki ⁴), Tsuneyasu Kaisho ⁵), Kensuke Miyake ¹⁾ ¹⁾ Division of Innate Immunity, The Institute of Medical Science, The University of Tokyo, ²⁾ Department of Immunology, Faculty of Medicine, Kagawa University, ³⁾ Department of Forensic, Wakayama Medical University, ⁴⁾ The Institute for AIM Medicine, ⁵⁾ Department of Immunology, Institute of Advanced Medicine
WS04-02-O/P	Fine tuning of TLR9 signaling triggered by CpG DNA-CXCL14 complex is mediated by Immunoglobulin
	superfamily proteins and scavenger receptors
	Kosuke Tanegashima ¹⁾ , Risa Saito ^{1,2)} , Riku Takahashi ^{1,2)} , Manaka Hasebe ^{1,3)} , Takahiko Hara ^{1,2,3)} ¹⁾ Stem cell project, Tokyo Metropolitan Institute of Medical Science, ² Grad. Sch. of Tokyo Medical and Dental Univ., ³⁾ Grad. Sch. Tokyo Metropol. Univ.
WS04-03-O/P	Nucleolus dysfunction-mediated DNA leaking forms innate immune priming under nutrition starvation
	and ribosomal diseases
	 Ken Takashima, Hiroyuki Oshiumi Department of Immunology, Graduate School of Medical Sciences, Faculty of Life Science, Kumamoto University
WS04-04-O/P	Human Dectin-1 is a ligand of CLEC-2 and regulates lymphatic development
	○ Taiki Ito ^{1,2)} , Shojiro Haji ³⁾ , Masamichi Nagae ^{1,2)} , Sho Yamasaki ^{1,2)}
	¹⁾ Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ²⁾ Immunology Frontier Research Center (IFReC), Osaka University, ³⁾ Department of Medicine and Bioregulatory Science, Graduate School of Medical Sciences, Kyushu University

WS04-05-O/P	TAK1-binding proteins (TAB) 2 and TAB3 are dispensable for TAK1 activation but redundantly required for TLR-induced cytokine production in macrophages
	Giichi Takaesu ^{1,2,3)} , Tanveer Ali ²⁾ , Osamu Takeuchi ⁴⁾ , Goro Matsuzaki ^{1,2,3)} ¹⁾ Trop. Biosp. Res. Ctr., Univ. Ryukyus, ²⁾ Dept. Host Defense, Grad. Sch. Med., Univ. Ryukyus, ³⁾ Adv. Med. Res. Ctr, Univ. Ryukyus., ⁴⁾ Dept. Med. Chem., Grad. Sch. Med., Kyoto Univ.
WS04-06-O/P	Distinct immune cell dynamics correlate with the immunogenicity and reactogenicity of COVID-19 vaccines
	 Takayuki Matsumura, Tomohiro Takano, Ryutaro Kotaki, Yu Adachi, Saya Moriyama, Taishi Onodera, Kazutaka Terahara, Masanori Isogawa, Yoshimasa Takahashi Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases
WS04-07-O/P	The behavioral duality of monocytes depends on the severity of inflammation-A new regulatory mechanism of inflammation by monocytes
	Masashi Kanayama, Megumi Akiyama, Toshiaki Ohteki Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental Univ.
WS04-08-O/P	Immune checkpoint molecule Tim3 regulates microglial function and the development of Alzheimer's
	disease pathology Kimitoshi Kimura ^{1,2,3,4)} , Ayshwarya Subramanian ^{1,2,3,5)} , Zhuoran Yin ^{1,2,3)} , Ahad Khalilnezhad ^{1,2,3)} , Yufan Wu ^{1,2,3,5)} , Danyang He ^{1,2,3)} , Dennis J. Selkoe ^{1,2,3)} , Aviv Regev ⁵⁾ , Mario L. Suvà ^{5,6)} , Oleg Butovsky ^{1,2,3)} , Vijay K. Kuchroo ^{1,2,3,5)} Evergrande Center for Immunologic Diseases, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA., ²⁾ Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA., ³⁾ Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA., ⁴⁾ Department of Neurology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ⁵⁾ Broad Institute of MIT and Harvard, Cambridge, MA, USA., ⁶⁾ Department of Pathology and Center for Cancer Research, Massachusetts General Hospital and Harvard Medical School, Boston, MA, USA.
WS04-09-P	The cytokine component Epstein-Barr virus induced 3 (EBI3) promotes systemic inflammation induced by TLR7 ligand
	Masanori Iseki ¹⁾ , Yuma Sakamoto ¹⁾ , Daiki Takezaki ^{1,2)} , Shin Morizane ²⁾ , Tomoyuki Mukai ¹⁾ Department of Immunology and Molecular Genetics, Kawasaki Medical School, ²⁾ Department of Dermatology, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University
WS04-10-P	Newly identified WDFY4 is one of the promoting molecules for TLR7-induced lethal inflammation
	¹⁾ Faculty of Pharmacy, Department of Pharmaceutical Sciences & Research Institute of Pharmaceutical Sciences, Musashino University, ²⁾ Division of Innate Immunity, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, ³⁾ Division of Clinical Genome Research, Advanced Clinical Research Center, The Institute of Medical Science, The University of Tokyo
WS04-11-P	Using endotoxin preconditioning and MyD88-independent signaling to ameliorate lethal sepsis
	Takeshi Ono ¹⁾ , Bradley M. Kearney ^{1,2)} , Yoko Yamaguchi ¹⁾ , Manabu Kinoshita ¹⁾ Pational Defense Medical College, ²⁾ US Army Japan Engineer and Scientist Exchange Program
WS04-12-P	Involvement of a host factor in the innate immune response to HBV in hepatocytes
	O Narumi Kawasaki ¹⁾ , Kazuhisa Murai ¹⁾ , Atsuya Ishida ¹⁾ , Ying Wang ¹⁾ , Rio Yasukawa ¹⁾ , Masao Honda ^{1,2)} Department of Clinical Laboratory Medicine, Kanazawa University Graduate School of Health Medicine, Kanazawa, Japan, ²⁾ Department of Gastroenterology, Kanazawa University Graduate School of Medicine, Kanazawa, Japan.
WS04-13-P	Exploring circular RNAs involved in inflammatory responses
	Shuya Hiroki, Daisuke Ori, Taro Kawai Laboratory of Molecular Immunobiology, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST)
WS04-14-P	Identification of RPL15 60S ribosomal protein as a novel topotecan target protein that correlates with
	DAMP secretion and antitumor immune activation
	○ Yuichi Kitai, Shunsuke Yamada, Tadashi Matsuda Pharmaceutical Sciences, Hokkaido University

WS04-15-P	Monosodium urate crystals directly induce the inflammatory activation of human endothelial cells in hyperuricemia
	Motokazu Tsuneto ¹⁾ , Yuka Katsukura ²⁾ , Naruomi Yamada ²⁾ , Akika Fukawa ²⁾ , Ichiro Hisatome ³⁾ ¹⁾ Division of regeranative medicine and tharapeutics, Tottori university, ²⁾ Food microbiology and function research laboratories, R&D division, Meiji Co.,Ltd, ³⁾ Yonago medical center
WS04-16-P	Dasatinib suppresses particulate-induced pyroptosis and acute lung inflammation
	Naoki Takemura ¹⁾ , Yixi Pan ¹⁾ , Tatsuya Saitoh ^{1,2,3)} Graduate School of Pharmaceutical Sciences, Osaka University, ² Global Center for Medical Engineering and Informatics, Osaka University, ³ Center for Infectious Diseases for Education and Research (CiDER), Osaka University
WS04-17-P	Unveiling immune dynamics behind carboxyl vinyl polymer adjuvanticity for nasal vaccine
	© Eita Sasaki ¹⁾ , Hideki Asanuma ²⁾ , Takuo Mizukami ³⁾ , Hideki Hasegawa ²⁾ , Isao Hamaguchi ³⁾ , Takashi Miyazaki ⁴⁾ , Yoshimasa Takahashi ¹⁾ ¹⁾ Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾ Center for Influenza and Respiratory Virus Research, National Institute of Infectious Diseases, ³⁾ Research Center for Biological Products in the Next Generation, National Institute of
	Infectious Diseases, ⁴ Business Management Department, Toko Yakuhin Kogyo Co., Ltd.
WS04-18-P	NOD1 suppresses ER stress-induced inflammation by the decreased protein level of ASK1
	○ Yoshitaka Kimura ¹ , Miyako Kimura ^{2,3} , Noriko Miura ⁴ , Yusuke Yoshino ¹ , Hajime Kono ² ¹ Department of Microbiology and Immunology, Teikyo University of Medicine, ² Department of Internal Medicine, Teikyo University of Medicine, ³ Division of Regenerative Therapy, Graduate School of Medicine, Juntendo University, ⁴ Laboratory for Immunology of Microbial Products, School of Pharmacy, Tokyo University of Pharmacy and Life Science
WS04-19-P	The role of SAGA complex in the regulation of transcriptional activation of MHC class I genes
	 Bingyu Ren¹⁾, Noyuri Zama¹⁾, Ryota Ouda¹⁾, Xin Sun¹⁾, Tsutomu Tanaka¹⁾, Koichi S Kobayashi^{1,2,3)} Department of Immunology, Hokkaido University Graduate School of Medicine, ²⁾Department of Microbial Pathogenesis and Immunology, Hokkaido University Institute for Vaccine Research and Development
WS04-20-P	Role of Nuclear factor-Y in NLRC5-mediated MHC class I gene expression
WS04-21-P	Proprotein convertase FURIN is involved in the activation process of group 2 innate lymphoid cells
	Takuya Yashiro ¹⁾ , Kazuyo Moro ^{1,2)} 1)Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, 2)Laboratory for Innate Immune Systems, RIKEN IMS
WS04-22-P	Memory-phenotype CD4 ⁺ T lymphocytes rapidly accumulate in ischemic organs and exacerbate tissue injury in an innate manner
	Kosuke Sato ^{1,2)} , Akihisa Kawajiri ¹⁾ , Jing Li ¹⁾ , Ziying Yang ¹⁾ , Shunichi Tayama ¹⁾ , Kenshiro Matsuda ³⁾ , Chigusa Oda ³⁾ , Akira Shibuya ³⁾ , Motoshi Wada ²⁾ , Naoto Ishii ¹⁾ , Takeshi Kawabe ¹⁾
	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
WS04-23-P	Downregulation of innate immune cells in postmenopausal osteoporosis: A novel osteoimmunological
	perspective
	Yasuyuki Negishi ^{1,2)} , Munehiro Naruo ^{1,3)} , Lilika Higuchi ²⁾ , Nozomi Ouchi ²⁾ , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ The partment of Microbiology and Immunology, Nippon Medical School, Department of Obstetrics and Gynecology, Nippon Medical School, Department of Orthopedic Surgery, Tomei Atsugi Hospital, Kanagawa, Japan
WS04-24-P	Unraveling lung epithelial cell injury and fibrosis: a robust ex vivo culture model for investigating
	molecular interactions and disease pathogenesis
	O Bin Wu ^{1,2)} , Shigeyuki Shichino ¹⁾ , Satoshi Ueha ¹⁾ , Toshihiro Ito ³⁾ , Kouji Matsushima ¹⁾ Tokyo University of Science, Reserach Institute for Biomedical Science, Division of Molecular Regulation of Inflammatory and Immune

Diseases, 2 ImmunoGene Teqs , 3 Nara Medical University, Department of Immunology

WS04-25-P	Impact of the gut the microbiota and their metabolites on the development of non-alcoholic steatohepatitis in type 2 diabetic TSOD mice and their control TSNO mice Naoya Igarashi ¹⁾ , Yukihiro Furusawa ¹⁾ , Koichi Tsuneyama ²⁾ , Yoshinori Nagai ¹⁾ Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²⁾ Department of Pathology and Laboratory Medicine, Tokushima University Graduate School
WS04-26-P	Development of a thrombocytopenia risk assessment method using whole blood Natsumi Maeda, Kosuke Harada, Tadahiro Shinozawa Drug Safety Research and Evaluation, Research, Takeda Pharmaceutical Company Limited, 26-1, Muraoka-Higashi 2-chome, Fujisawa, Kanagawa 251-8555, Japan
January 1	7
WS05 Aller	gy-1
WS05-01-O/P	Neonatal skin dysbiosis and altered Th2/Th17 signaling are associated with the development of infantile atopic dermatitis
	Tomoka Ito ¹⁾ , Reika Aoyama ¹⁾ , Seitaro Nakgawa ^{1,2)} , Yuriko Yamazaki ^{1,3)} , Naohiro Inohara ⁴⁾ , Yoko Ichikawa ⁵⁾ , Naoki Shimojo ⁶⁾ , Takashi Sugihira ^{1,2)} , Manabu Fujimoto ^{1,7)} , Yumi Matsuoka Nakamura ^{1,2,3)} ¹⁾ Department of Dermatology, Graduate School of Medicine, Osaka University, ²⁾ Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, ³⁾ Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, ⁴⁾ Department of Pathology and Rogel Cancer Center, University of Michigan Medical School, ⁵⁾ Ichikawa Clinic, ⁶⁾ Center for Preventive Medical Sciences, Chiba University, ⁷⁾ Cutaneous Immunology, Immunology Frontier Research Center, Osaka University
WS05-02-O/P	Staphylococcus aureus δ-toxin present on skin promotes the development of food allergy in an IL-1α-
	dependent manner in murine model Hiromichi Yamada ^{1,2)} , Ayako Kaitani ¹⁾ , Kumi Izawa ¹⁾ , Tomoaki Ando ¹⁾ , Shino Uchida ¹⁾ , Risa Yamamoto ¹⁾ , Akie Maehara ¹⁾ , Shun Toriumi ^{1,2)} , Naoko Negishi ¹⁾ , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Jiro Kitaura ¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾ Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine
WS05-03-P	Antigen protease activity with a detergent induces severe skin inflammation with itch and robust Th17/ Th22 differentiation in mice
	Seiji Kamijo ¹⁾ , Tomoko Yoshimura ²⁾ , Yurie Masutani ²⁾ , Toru Kimitsu ²⁾ , Saori Ichikawa ³⁾ , Takasuke Ogawa ²⁾ , Mitsutoshi Tominaga ⁴⁾ , Hajime Suto ¹⁾ , Kenji Takamori ⁴⁾ , Shigaku Ikeda ^{1,2)} , Ko Okumura ¹⁾ , Toshiro Takai ¹⁾ ¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾ Department of Allergology and Dermatology, Juntendo University Graduate School of Medicine, ³⁾ Department of Materials and Biological Sciences, Japan Women's University, ⁴⁾ Juntendo Itch Research Center (JIRC), Juntendo University Graduate School of Medicine
WS05-04-O/P	Psychological stress enhances scratching behavior in atopic dermatitis by increasing sensitivity of
	Sensory nerves Kei Nagao ^{1,2)} , Soichiro Yoshikawa ¹⁾ , Syuhei Sano ¹⁾ , Toshiro Takai ³⁾ , Sachiko Miyake ³⁾ Department of Immunology, Juntendo University Graduate School of Medicine, ²⁾ Department of Cellular Physiology Okayama University Graduate School of Medicine, ³⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine
WS05-05-P	Considering the allergic march from the perspective of innate immunity

○ Hiroka Yamashita¹¹, Yasutaka Motomura¹.², Kazuyo Moro¹.2,3)

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

WSO5-06-O/P Roles of GATA3 in LPS-induced cytokine expression in mast cells

○ Yuki Goto, Kazuki Nagata, Hiromi Takeuchi, Chiharu Nishiyama
Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science

WS05-07-P Antigen-lgE affinity is an important factor influencing FceRI desensitization without mast cell activation

Yuka Nagata, Miyu Kimura, Atsushi Furukawa, Ryo Suzuki

Laboratory of Hygienic Chemistry, Faculty of Pharmaceutical Sciences, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University

WS05-08-P	Estimation of allergen-specific peptides interfering mast cell degranulation
	O Hina Kawashima, Miyoko Matsushima, Nodoka Shimasaki, Hinata Taniguchi, Sayaka Takagi, Fuzuki Hayashi, Nanami Yoshida, Tsutomu Kawabe
	Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System
WS05-09-P	Mucosal mast cell antigen presentation contributes to the development of intestinal mast cell hyperplasia
	in food allergy
	Nobuhiro Nakano ¹⁾ , Kenji Oishi ^{1,2)} , Jiro Kitaura ¹⁾ , Hideoki Ogawa ¹⁾ , Ko Okumura ¹⁾ Natopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, Department of Pediatrics and Adolescent Medicine, Juntendo University Graduate School of Medicine
WS05-10-P	Pathogenesis of allergic airway inflammation caused by DOCK2 deficiency
	Ceisuke Matsubara, Yoshinori Fukui Devision of Immunogenetics, Medical Institute of Bioregulation, Kyushu University
WS05-11-O/P	miR-451a containing EVs suppress delayed-type hypersensitivity by regulating IL-17A producing T cells
	Takanobu Yoshida ^{1,2)} , Ken Takashima ¹⁾ , Hiroyuki Oshiumi ¹⁾ Department of Immunology, Faculty of Life Sciences, Kumamoto University, ²⁾ Department of Pediatrics, Faculty of Life Sciences, Kumamoto University
WS05-12-P	Amphiregulin-producing T helper 2 cells facilitate esophageal fibrosis of eosinophilic esophagitis
	○ Tatsuya Kaneko ^{1,2)} , Chiaki Iwamura ¹⁾ , Akane Kurosugi ^{1,2)} , Masahiro Kiuchi ¹⁾ , Toshinori Nakayama ¹⁾ , Kiyoshi Hirahara ¹⁾ Department of Immunology, Graduate School of Medicine, Chiba University, ²⁾ Department of Gastroenterology, Graduate School of Medicine, Chiba University
WS05-13-O/P	GATA3 dysfunction in follicular regulatory T cells may underlie selective dysregulation of type 2 humoral immunity in Foxp3 ^{A384T} mice
	Shiki Masumoto, Akira Nakajima, Shohei Hori Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS05-14-P	Foxp3 and Bcl6 double-deficient mice spontaneously developed dermatitis accompanied with type 2
	inflammation
	Riyo Kawasaki ¹⁾ , Yuki Tai ¹⁾ , Kaori Kanemaru ³⁾ , Yoshikazu Nakamura ³⁾ , Shuhei Ogawa ²⁾ , Yohsuke Harada ¹⁾ Taculty of Pharmaceutical Science, Tokyo University of Science, Pasearch Institute for Biomedical Science, Tokyo University of Science, Seriously of Science and Technology, Tokyo University of Science
WS05-15-P	Effects of Tr1 cell-derived extracellular vesicles (Tr1-EVs) on activation of ILC2 in a murine model of asthma
	Masaya Matsuda, Shunsuke Nishiuma, Mari Watanabe, Kazuyuki Kitatani, Takeshi Nabe Setsunan Univ.
WS05-16-P	Immunoregulatory activities of Interleukin-38 on Allergic Rhinitis
	Sze Man Hon, Peiting Li, Chun Kwok Wong The Chinese University of Hong Kong
WS05-17-O/P	Comprehensive analysis of endotype-dependent efficacy of antibody therapies in asthma
	Hinami Kawahata ¹⁾ , Takuya Yashiro ¹⁾ , Kazuyo Moro ^{1,2)} 1)Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, and Immune Systems, RIKEN-IMS
WS05-18-O/P	In vitro and in vivo efficacy of Fab fragments against human IgE C _E 2 in anaphylactic reactions
	Hexing Wang ¹⁾ , Tomoaki Ando ¹⁾ , Toshiaki Maruyama ²⁾ , CJ Okumura ²⁾ , Kumi Izawa ¹⁾ , Ayako Kaitani ¹⁾ , Akie Maehara ¹⁾ , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Jiro Kitaura ¹⁾ 1)Atopy (Allergy) research center, Juntendo University Graduate School of Medicine, ²⁾ Abwiz Bio Inc.
WS05-19-P	Effects of a JAK inhibitor, delgocitinib on steroid-resistant asthma and ILC2 proliferation
	Yukiko Nakayama, Hayato Shimora, Masaya Matsuda, Kazuyuki Kitatani, Takeshi Nabe Setsunan Univ.

WS05-20-P

Development of a novel anti-sulfated glycan antibody that blocks lymphocyte homing to nasal associatedlymphoid tissues and allergic rhinitis in mice

O Hiroto Kawashima, Wei Liu, Wei Xiong, Wenxin Liu, Jotaro Hirakawa Graduate School of Pharmaceutical Sciences, Chiba University

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Hironobu Asao

WS06	Cytokir	nes and chemokines
WS06	6-01-P	Essential roles of the oncostatin M receptor β -mediated axis in skin wound healing by regulating HGF and TIMP-1 expression on fibroblasts
		Yuko Ishida ¹⁾ , Yumi Kuninaka ¹⁾ , Tadasuke Komori ¹⁾ , Mizuho Nosaka ¹⁾ , Akihiko Kimura ¹⁾ , Atsushi Miyajima ²⁾ , Yoshihiro Morikawa ¹⁾ , Mariko Kawaguchi ¹⁾ , Toshikazu Kondo ¹⁾ 1)Wakayama Medical University, ²⁾ The University of Tokyo
WS06	6-02-P	CCL3-CCR5 axis in Kupffer cells plays a detrimental role in acetaminophen-induced acute liver injury
		Yumi Kuninaka, Yuko Ishida, Mizuho Nosaka, Akihiko Kimura, Naofumi Mukaida, Mariko Kawaguchi, Toshikazu Kondo Wakayama medical university
WS06	6-03-P	Recombinant soluble thrombomodulin attenuates cisplatin-induced intestinal injury by inhibiting
		intestinal epithelial cell-derived cytokine secretion
		O Arong Gaowa ¹⁾ , Takanori Yamaguchi ²⁾ , Eun Jeong Park ¹⁾ , Motomu Shimaoka ¹⁾ Dept. of Molecular Pathobiology and Cell Adhesion Biology, Graduate School of Medicine, Mie Univ., ²⁾ Dept. of Hematology and Oncology, Graduate School of Medicine, Mie Univ.
WS06	6-04-P	CCR4 deficiency aggravates depressive-like behavior in a mouse model of lipopolysaccharide-induced depression
		 Yuta Hara, Ritsuki Sano, Moeka Kitagawa, Tatsuma Honzawa, Kazuhiko Matsuo, Takashi Nakayama Division of Chemotherapy, Faculty of Pharmacy, Kindai University
WS06	6-05-P	Fractalkine/CX3CR1 axis contribute to renal fibrosis induced by unilateral ureteral obstruction
		Yuya Iwahashi, Yuko Ishida, Yumi Kuninaka, Akiko Ishigami, Mizuho Nosaka, Akihiko Kimura, Naofumi Mukaida, Isao Hara, Toshikazu Kondo Wakayama Medical Univ.
WS06-	-06-O/P	Absence of CCL5/CCR5 axis exaggerates thrombus formation through reduced uPA, tPA and VEGF expression in murine DVT model
		Mizuho Nosaka, Yuko Ishida, Yumi Kuninaka, Akiko Ishigami, Hiroki Yamamoto, Akihiko Kimura, Naofumi Mukaida, Toshikazu Kondo Department of Forensic Medicine, Wakayama Medical University
WS06-	-07-O/P	CXCL12 derived from intestinal fibroblasts prevents tumorigenesis through modulation of epithelial cell
		metabolism
		Mayu Yagita ¹⁾ , Hisako Kayama ²⁾ , Atsushi Kumanogoh ¹⁾ , Kiyoshi Takeda ²⁾ Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Department of Microbiology and Immunology, Osaka University Graduate School of Medicine
WS06-	-08-O/P	Identification of the origin and function of soluble ST2 in asthma
		O Pei-Chi Lo ^{1,2,4)} , Yasutaka Motomura ^{1,2,4)} , Kazuyo Moro ^{1,2,3,4)} Osaka University Immunology Frontier Research Center (IFReC), ²⁾ Graduate School of Medicine, Osaka University, ³⁾ Graduate School of Frontier Biosciences, Osaka University, ⁴⁾ RIKEN IMS
WS06	6-09-P	IL-21 isoform transgenic mice spontaneously develop mammary tumors
		Akemi Araki, Shinichi Saitoh, Yuji Takeda, Saima Sabrina, Risako Yamaguchi, Mikako Nagashima, Yusuke Nouchi,

Department of Immunology, Faculty of Medicine, Yamagata University

WS06-10-P	Selective cell stimulation with bovine interleukin-2 mutein and the distribution of bovine CD122 on the peripheral lymphocytes
	O Shuya Mitoma ¹⁾ , Tomofumi Uto ¹⁾ , Tomohiro Fukaya ¹⁾ , Moe Tominaga ¹⁾ , Katsuaki Sato ¹⁾ , Junzo Norimine ²⁾ 1) Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki, ²⁾ Center for Animal Disease Control, University of Miyazaki
WS06-11-P	Ectopic expressions of inflammatory cytokines promote the proliferation of B-precursor acute lymphoblastic leukemia Aisa Suzuki, Tsukasa Shigehiro, Tomokatsu Ikawa
	Tokyo University of Science, Research Institute for Biomedical Sciences
WS06-12-P	DNA methylation alters the expression of ERV elements in cellular senescence Shogo Takayama, Teh-Wei Wang, Makoto Nakanishi University of Tokyo
WS06-13-P	Analysis of disease-related SNPs and inflammation inducing mechanisms in Dupuytren's contracture Yuki Tanaka ^{1,2)} , Hiroaki Kida ²⁾ , Jing-Jing Jiang ²⁾ , Ikuko Takahashi ²⁾ , Shigeru Hashimoto ²⁾ , Masaaki Murakami ^{1,2)} National Institutes for Quantum and Science and Technology, Division of Molecular Psychoimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University
WS06-14-O/P	Adrenergic control of lymphocyte recirculation via formation of heteromeric complexes between the β ₂ -adrenergic receptor and chemokine receptors Akiko Nakai ^{1,2} , Kazuhiro Suzuki ^{1,2,3}) **Laboratory of Immune Response Dynamics, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, **Department of Immune Response Dynamics, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, **Center for Infectious Disease Education and Research, Osaka University
WS06-15-O/P	IL-18: immune mediator from maternal uterus to placental development
	O Hajime Ino ^{1,2)} , Yasuyuki Negishi ^{1,2)} , Yumi Horii ^{1,2)} , Eri Koike ¹⁾ , Richard A. Flavell ³⁾ , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, ²⁾ Department of Obstetrics and Gynecology, Nippon Medical School, ³⁾ Section of Immunobiology, Yale University School of Medicine
WS06-16-P	Protective role of inflammatory cytokines in murine miscarriage: perspective of interleukin-18 functions
	Yumi Horii ^{1,2)} , Hajime Ino ^{1,2)} , Yasuyuki Negishi ^{1,2)} , Eri Koike ¹⁾ , Shunji Suzuki ²⁾ , Rimpei Morita ¹⁾ ¹⁾ Department of Microbiology and Immunology, Nippon Medical School, Japan, ²⁾ Department of Obstetrics and Gynecology, Nippon Medical School, Japan
WS06-17-P	Rapidly progressive kidney fibrosis in podocyte specific human TGF-\(\beta\)1 transgenic mice with diabetes
	Atsuro Takeshita ^{1,2)} , Taro Yasuma ^{1,2)} , Suphachai Tharavecharak ¹⁾ , Valeria D'Alesandro Fridman ¹⁾ , Maya Kato ³⁾ , Chisa Inoue ²⁾ , Yuko Okano ^{1,2)} , Kota Nishihama ²⁾ , Masaaki Toda ¹⁾ , Corina N. D'Allesandro-Gabazza ¹⁾ , Yutaka Yano ²⁾ , Esteban C. Gabazza ¹⁾ ¹⁾ Mie University Graduate School of Medicine, Department of Immunology, ²⁾ Mie University Faculty of Medicine, Department of Diabetes and Endocrinology, ³⁾ Mie University Faculty of Medicine, Department of Obstetrics & Gynecology
WS06-18-P	Water extract of limonite ameliorates palmitate-induced lipid accumulation and insulin-resistance in
	HepG2 cells
	Chisa Inoue ^{1,2)} , Masaaki Toda ¹⁾ , Taro Yasuma ¹⁾ , Atsuro Takeshita ¹⁾ , Yuko Okano ^{1,2)} , Kota Nishihama ²⁾ , Corina N D'Alessandro Gabazza ¹⁾ , Valeria Fridman D'Alessandro ¹⁾ , Takehiro Takagi ³⁾ , Yutaka Yano ²⁾ , Esteban C Gabazza ¹⁾ Department of Immunology, Mie University Graduate School of Medicine, Tsu, Mie, Japan, ²⁾ Department of Diabetes and Endocrinology, Mie University Graduate School of Medicine, Tsu, Mie, Japan, ³ Iwasaki Hospital, Tsu, Mie, Japan
WS06-19-P	Analysis of signal transduction pathway by IFNλ4
	Yuga Sato ¹⁾ , Kazuhisa Murai ¹⁾ , Kensuke Tanaka ¹⁾ , Masao Honda ^{1,2)} Department of Clinical Laboratory Medicine, Kanazawa Univ. Graduate School of Health Medicine, Kanazawa, Japan, ²⁾ Department of Gastroenterology, Kanazawa Univ. Graduate School of Medicine, Kanazawa, Japan

WS06-20-O/P	Identification and characterization of putative enhancer regions that direct <i>II6</i> transcription in murine macrophages
	Norisuke Kano, Takeo Miki, Yurina Uehara, Daisuke Ori, Taro Kawai Nara Institute science and technology
W506-21-P	CCL20/CCR6 axis is not necessarily required for experimental autoimmune encephalomyelitis Nozomi Sachi, Naganori Kamiyama, Sotaro Ozaka, Chalalai Thanyakorn, Yasuhiro Soga, Yomei Kagoshima, Takashi Kobayashi Department of Infectious Disease Control, Oita University Faculty of Medicine.
WS06-22-P	IL-18 augments Th17 cells-mediated airway inflammation in aged mice Masakiyo Nakahira, Etsushi Kuroda Department of Immunology, School of Medicine, Hyogo Medical University
WS06-23-P	The mechanism of coronary arteritis development in a mouse model of Kawasaki disease Masami Fujita, Hiroki Satooka, Takako Hirata Shiga University of Medical Science
WS06-24-O/P	A Computational model of IL-6-dependent disease progression in arthritis model (F759) mice Hiroki Tanaka ¹⁾ , Reiji Yamamoto ^{1,2)} , Satoshi Yamada ³⁾ , Toru Atsumi ¹⁾ , Kaoru Murakami ¹⁾ , Ari Hashimoto ²⁾ , Seiichiro Naito ¹⁾ , Akihiko Yoshimura ⁴⁾ , Daisuke Kamimura ¹⁾ , Shintaro Hojyo ¹⁾ , Shigeru Hashimoto ¹⁾ , Masaaki Murakami ^{1,5,6)} Institute for Genetic Medicine, Hokkaido University, ²⁾ Faculity of Medicine and Graduate School of Medicine, Hokkaido University, ³⁾ Faculity of Information science and Engneering, Okayama University of Science, ⁴⁾ School of Medicine, Keio University, ⁵⁾ National Institute for Quantam and Radiological Science and Techlonogy, ⁵⁾ National Institute for Physiological Science, National Institute of Natural Science
WS06-25-P	Elevated Plasma and Bile Levels of Corisin, a MicrobiotaDerived Proapoptotic Peptide, in Patients with Severe Acute Cholangitis Ryo Nishiwaki ¹ , Taro Yasuma ² , Esteban C Gabazza ^{2,3}) Digestive Endoscopy Center ,Matsusaka Municipal Hospital, ² Microbiome Research Center, Mie University, ³ Department of Immunology, and Department of Pulmonary and Critical Care Medicine, Mie University Faculty and Graduate School of Medicine, Mie University Hospital
WS06-26-P	METRNL protect the skin from chronic inflammation in atopic dermatitis Danqi Huang ¹⁾ , Xiuting Liu ²⁾ , Xun Gao ³⁾ , Jinyue Liao ¹⁾ , Phyllis Fung-Yi Cheung ⁴⁾ , Ting-Fan Leung ¹⁾ , Katie Ching-Yau Wong ¹⁾ , Lea Ling-Yu Kan ¹⁾ , Christopher Wai-Kei Lam ⁵⁾ , Chun-Kwok Wong ¹⁾ The Chinese University of Hong Kong, ² Sun Yat-sen University, ³ Southeast University, ⁴ University Hospital Essen, ⁵ Macau University of Science and Technology
WS06-27-O/P	Fibroblast growth factor 18 stimulates the proliferation of hepatic stellate cells, thereby inducing liver fibrosis Takao Seki¹¹, Yuichi Tsuchiya²¹, Shigeyuki Shichino³¹, Takashi Nishina¹¹, Soh Yamazaki¹¹, Kouji Matsushima³¹, Hideo Yagita⁵¹, Ko Okumura⁶¹, Minoru Tanaka⁴¹, Hiroyasu Nakano¹¹ Department of Biochemistry, Faculty of Medicine, Toho University, ²¹Department of Biochemistry, Faculty of Pharmaceutical Science, Toho University, ³³Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, ⁴¹Department of Regenerative Medicine, Research Institute, National Center for Global Health and Medicine, ⁵¹Department of Immunology, Faculty of Medicine and Graduate School of Medicine, Juntendo University, ⁶¹Atopy Research Center, Faculty of Medicine and Graduate School of Medicine, Juntendo University
W506-28-P	Inhibition of melanogenesis by conditioned medium of an immortalized stem cell line from human exfoliated deciduous teeth through possibly Wnt5a-mediated suppression of Wnt signaling Ami Sekine, Shinya Inoue, Yasuhiro Katahira, Aruma Watanabe, Satomi Miyakawa, Hideaki Hasegawa, Izuru Mizoguchi, Takayuki Yoshimoto Tokyo Medical University
WS06-29-P	DISTINCT CELL-TYPE- AND STIMULUS-SPECIFIC LANDSCAPES OF THE TNF LOCUS Aya Nambu ^{1,2)} , Motohiko Kadoki ^{3,4,2)} , Anne E Goldfeld ^{1,2)} 1Boston Children's Hospital, ² Harvard Medical School, ³ Massachusetts General Hospital, ⁴ Broad Institute

January 17

WS07	Tolerance and immune suppression-1
WS07-0	Regulatory T cells tonically inhibit spontaneous activation of naturally arising memory-phenotype CD4 ⁺ T lymphocytes
	 Jing Li, Ziying Yang, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Naoto Ishii, Takeshi Kawabe Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine
WS07-0	Inhibition of AKT-mTOR signaling contributes to Foxp3-dependent induction of endogenous <i>Foxp3</i> transcription <i>in vivo</i>
	Yuxi Wei, Hinako Ago, Shotaro Funatsu, Ryuichi Murakami, Akira Nakajima, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS07-0	Single cell suppression profiling of human regulatory T cells
	Jonas Nørskov Søndergaard¹¹, Janyerkye Tulyeu¹¹, David Priest²¹, Shimon Sakaguchi³⁴¹, James B Wing¹²² human Immunology Team, Center for Infectious Disease Education and Research (CIDER), Osaka University, Suita, Japan, ²¹ Laboratory of Human Immunology (Single Cell Immunology), WPI Immunology Frontier Research Center (IFReC), Osaka University, Suita, Japan, ³¹ Laboratory of Experimental Immunology, WPI Immunology Frontier Research Center (IFReC), Osaka University, Suita, Japan, ⁴¹ Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University, Kyoto, Japan
WS07-0	O/P Runx3/Cbfβ regulates Rorγt* Treg differentiation thought Rorγt* Thetis APCs in the gut
	 Chihiro Ogawa, Chengcheng Zou, Ichiro Taniuchi RIKEN Center for Integrative Medical Sciences, Laboratory for Transcriptional Regulation
WS07-0	MHC class II limits microbiota-dependent activation of colonic CD8 T cells in a CD4 T cell- and LAG-3- dependent manner
	○ Tomoya Sengiku ¹⁾ , Masato Kubo ^{2,3)} , Shohei Hori ¹⁾ , Ruka Setoguchi ¹⁾ Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo, ² Research Institute for Biomedical Science, Tokyo University of Science, ³ Research Center for Integrative Medical Science (IMS), RIKEN Yokohama Institute
WS07-0	A novel mechanism for LAG-3-mediated cell-extrinsic suppression of CD4 ⁺ T cell activation through trogocytosis of MHC class II
	 Ei Wakamatsu, Hiroaki Machiyama, Hiroko Toyota, Masae Furuhata, Hitoshi Nishijima, Arata Takeuchi, Tadashi Yokosuka Tokyo Medical Univ.
WS07-0	Mbd3 facilitates thymic regulatory T precursor cell development and Treg lineage commitment by altering the Treg-specific CD25 enhancer landscape
	 Jia Long^{1,2)}, Kenji Ichiyama^{1,2)}, Shimon Sakaguchi^{1,2,3)} ¹¹Immunology Frontier Research Center, ²¹Osaka Univ., ³¹Kyoto Univ.
WS07	Analysis of PD-L1 on renal vascular endothelial cells Yoichi Imai, Yoriaki Kaneko, Junpei Sunaga, Masato Kinoshita, Junya Suwa, Mitsuharu Watanabe, Keiju Hiromura Gunma University Graduate School of Medicine Department of Nephrology and Rheumatology
WS07	Studies of TIGIT-CD155 axis for induction and maintenance of iTreg cells Naoko Negishi, Jiro Kitaura, Ko Okumura, Sonoko Habu Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine
WS07	
	Sayaka Takagi, Miyoko Matsushima, Nodoka Shimasaki, Hinata Taniguchi, Hina Kawashima, Fuzuki Hayashi, Nanami Yoshida, Tsutomu Kawabe Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Tokai National Higher Education and Research System

WS07-11-P	Establishment of the mouse model with mild/moderate hemophilia A inducible the neutralizing anti-FVIII alloantibodies
	Akihisa Oda, Shoko Furukawa, Keiko Nishimura, Keiji Nogami Department of Pediatrics, Nara Medical University
WS07-12-P	Gut dysbiosis abrogates the establishment of oral tolerance mediated through dysfunction of mucosal dendritic cells
	 Tomohiro Fukaya, Tomofumi Uto, Shuya Mitoma, Moe Tominaga, Katsuaki Sato Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki
WS07-13-P	A new immune checkpoint molecule ILDR2 expression on CD206 ⁺ macrophages is enhanced after repeated antigen-painting onto sublingual mucosa Farzana Sultana, Zhang Chenyang, Miyuki Azuma, Shigenori Nagai Molecular Immunology, Tokyo Medical and Dental University
W507-14-P	Governing immunity by self-dominant peptide temporo-spatially: stabilizing sequentially induced tissue antigen-specific effector regulatory T cells and limiting epitope spreading capacity Youwei Lin ^{1,2} , Shun Sakuraba ³ , Chandirasegaran Massilamany ⁴ , Jayagopala Reddy ⁵ , Yoshimasa Tanaka ⁶ , Sachiko Miyake ⁷ , Takashi Yamamura ¹) Department of Immunology, National Institute of Neuroscience, National Center of Neurology and Psychiatry, Department of Neurology, National Center Hospital, National Center of Neurology and Psychiatry, National Institutes for Quantum Science and Technology, Institute for Quantum Life Science, Immuno-oncology CRISPR Therapeutics, School of Veterinary Medicine and Biomedical Sciences, University of Nebraska-Lincoln, Nagasaki University Graduate School of Biomedical Science, Department of Immunology, Juntendo University School of Medicine
wso7-15-P January 1	Potential therapeutic approach for liver fibrosis: Macrophage-based cell therapy Haruka Wada, Ken-ichiro Seino Institute for Genetic Medicine, Hokkaido University
WS08 Tum	or immunity-1; Effector cell therapy
WS08-01-O/P	Elucidating Tissue-Specific Metabolisms in Chimeric Antigen Receptor T-Cell Therapy
	O Ari Itoh-Nakadai ^{1,2)} , Mariko Murasawa-Tomizawa ¹⁾ , Masashi Matsuda ³⁾ , Haruhiko Koseki ³⁾ , Fumihiko Ishikawa ¹⁾ ¹⁾ Laboratory for Human Disease Models, IMS, Riken, Yokohama, Japan, ²⁾ Hygiene & public Health, Nippon Medical School, Tokyo, Japan, ³⁾ Developmental Genetics, IMS,RIKEN, Yokohama, Japan
WS08-02-O/P	Trogocytosis controlled CAR-T cells show enhanced anti-tumor activity
	Atsutaka Minagawa, Shin Kaneko Kyoto University iPS Cell Research and Application
WS08-03-O/P	Genetically engineered induced pluripotent stem cell-derived T cells with drastically improved anti-tumor efficacy against solid tumor Akihiro Ishikawa, Masazumi Waseda, Tomoko Ishii, Yohei Kawai, Shin Kaneko
	Kaneko-Lab, Center for iPS Cell Research and Application, Kyoto University
WS08-04-P	Generation of multiple immune cells engineered with chimeric antigen receptors from self-renewing leukocyte progenitor cells
	Tsukasa Shigehiro, Shogo Tanimori, Hiroshi Kadota, Tomokatsu Ikawa Research Institute for Biomedical Sciences, Tokyo University of Science
WS08-05-O/P	Dissecting the roles of STAT3 and STAT5 in antitumor T cells
	Haosong Zhang ^{1,2,3)} , Zhiwen Wu ²⁾ , Yuki Kagoya ^{1,2)} Division of Tumor Immunology, Institute for Advanced Medical Research, Keio University School of Medicine, ²⁾ Division of Immune Response, Aichi Cancer Center Research Institute, ³⁾ Department of Cancer Diagnostics and Therapeutics, Nagoya University Graduate School of Medicine

WS08-06-O/P	Efficient activity of CAR T cell targeting pMHC depends on binding affinity Hiratsuka Hiroyuki ¹⁾ , Yasushi Akahori ¹⁾ , Shingo Maeta ²⁾ , Daisuke Ejima ²⁾ , Yuriko Egashira ²⁾ , Atsushi Fukunaga ²⁾ ,
	Hiroshi Shiku ^{1,3)} **Department of Personalized Cancer Immunotherapy, Mie University graduate School of medicine, ²⁾ Bio-Diagnostic Reagent Technology Center, Sysmex Corporation, ³⁾ deceased 4 September 2022
WS08-07-O/P	Development of HLA-A2 restricted GPC3 TCR-T cells for cancer immunotherapy
	Manami Shimomura ¹⁾ , Kayoko Shoda ¹⁾ , Toshiaki Yoshikawa ¹⁾ , Toshihiro Suzuki ¹⁾ , Kazunobu Ohnuki ¹⁾ , Kaho Takeichi ²⁾ , Sachiko Okamoto ²⁾ , Tetsuya Nakatsura ¹⁾ National Cancer Center, EPOC, Cancer immunology, ²⁾ Takara Bio. Inc.
WS08-08-P	Isolation of a novel high-avidity TCR in pancreatic cancer patients receiving the combination of WT1 ₁₂₆ peptide vaccine plus gemcitabine
	Soyoko Morimoto ¹⁾ , Sumiyuki Nishida ^{2,3)} , Fumihiro Fujiki ⁴⁾ , Akinori Nagata ⁵⁾ , Satsuki Okafuji ⁵⁾ , Jun Nakata ⁵⁾ , Hiroko Nakajima ⁶⁾ , Yoshihiro Oka ¹⁾ , Yusuke Oji ⁵⁾ , Atsushi Kumanogoh ³⁾ , Haruo Sugiyama ⁶⁾ ¹⁾ Department of Cancer Stem Cell Biology, Osaka University Graduate School of Medicine, ²⁾ Strategic Global Partnership & X(Cross)-Innovation
	Initiative Graduate School of Medicine, Osaka University and Osaka University Hospital, ³⁾ Department of Respiratory Medicine and Clinical Immunology Graduate School of Medicine, Osaka University, ⁴⁾ Department of Cancer Immunotherapy, Osaka University Graduate School of Medicine, ⁵⁾ Department of Clinical Laboratory and Biomedical Sciences, Osaka University Graduate School of Medicine, ⁶⁾ Department of Cancer Immunology, Osaka University Graduate School of Medicine
WS08-09-O/P	Evaluation of tumor infiltrating lymphocytes (TILs)-derived MR1 restricted TCRs of breast cancer patients
	Abdul Hayee ¹⁾ , Eiji Kobayashi ¹⁾ , Hiroshi Hamana ²⁾ , Satoshi Yamaguchi ¹⁾ , Ha Thi Viet My ¹⁾ , Tatsuhiko Ozawa ¹⁾ , Hiroyuki Kishi ¹⁾ Department of Immunology, Faculty of Medicine, Academic Assembly, University of Toyama, ²⁾ Thyas Co., Ltd., Kyoto, Japan
W/500.10 D	
WS08-10-P	Visualizing the immune responses of CAR-T cells against human lymphoma in living bone marrow Erika Yamashita ^{1,2)} , Kaho Fujii ¹⁾ , Masaru Ishii ^{1,2)} Department of Immunology and Cell Biology Graduate School of Medicine, Osaka University, ²⁾ StemRIM Institute of Regeneration-Inducing Medicine, Osaka University
WS08-11-P	Comparison of linear and parallel co-stimulatory signaling via CD28 in the activation of CAR-T Cells
	○ Tetsushi Nishikawa ^{1,2)} , Arata Takeuchi ¹⁾ , Hiroaki Machiyama ¹⁾ , Ei Wakamatsu ¹⁾ , Hitoshi Nishijima ¹⁾ , Masae Furuhata ¹⁾ , Hiroko Toyota ¹⁾ , Wataru Nishi ³⁾ , Ryohei Matsushima ^{1,3)} , Yosuke Yoshida ^{1,4)} , Tadashi Yokosuka ¹⁾ ¹¹Department of Immunology, Tokyo Medical University, ²¹Department of Dermatology, Tokyo Medical University, ³¹Department of Thoracic
	Surgery, Graduate School of Medical Sciences, Kumamoto University, ⁴ Department of Nephrology, Tokyo Medical University
WS08-12-P	PD-1-mediated suppression of CAR-T cells via CAR signalosomes colocalized by PD-1
	○ Yosuke Yoshida ^{1,2)} , Hiroaki Machiyama ²⁾ , Ei Wakamatsu ²⁾ , Arata Takeuchi ²⁾ , Hitoshi Nishijima ²⁾ , Hiroko Toyota ²⁾ , Masae Furuhata ²⁾ , Ryohei Matsushima ^{4,2)} , Tetsushi Nishikawa ^{3,2)} , Tadashi Yokosuka ²⁾ ¹¹Department of Nephrology, Tokyo Medical University , ²¹Department of Immunology, Tokyo Medical University , ³¹Department of Thorocic Surgery, Kumamoto University
WS08-13-P	Generation of CD103 ⁺ tissue-resident memory-like CD8 ⁺ T cells in the tumor
	○ Kosuke Kitahata ¹⁾ , Diego Diez ²⁾ , Masaaki Miyazawa ^{3,4)} , Shiki Takamura ¹⁾ ¹¹Laboratory for Immunological Memory, RIKEN center for Integrative Medical Science, ²¹Quantitative Immunology Research Unit, Immunology Frontier Research Center, Osaka University, ³¹Shin Nippon Biomedical Laboratories, LTD (SNBL), ⁴¹Kindai University
WS08-14-P	Contribution of tumor-reactive T cell clones proliferating in tumor-draining lymph nodes to anti-tumor
	responses Mikiya Tsunoda ¹⁾ , Munetomo Takahashi ²⁾ , Hiroyasu Aoki ³⁾ , Haruka Shimizu ¹⁾ , Masaki Kurosu ¹⁾ , Haru Ogiwara ¹⁾ , Shigeyuki Shichino ¹⁾ , Kouji Matsushima ¹⁾ , Satoshi Ueha ¹⁾
	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.

In vitro model of clonal competition for antigen-specific CD8⁺T cell responses

WS08-15-P

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

WS08-16-P	Acquisition of tumor-specific T cell immunity by wide-spread viral molecule
	 Keita Yamane, Yohei Kawano, Shun Ohki, Yuri Matsuoka, Rin Yoshizato, Yumi Tamura, Yasuo Kitajima, Ryoka Tsukahara, Tomoharu Yasuda Hiroshima Univ. Grad. Sch. of. Biomed and Health Sci.
WS08-17-P	Analyses on the possible involvement of miR-31 in the Eomesodermin-mediated exhaustion of anti-tumo CTLs
	Ritsuki Tanabe, Yui Hirao, Yuka Okabe, Hiroaki Takimoto, Koji Eshima Laboratory of Immunology, Kitasato University Graduate School of Science
WS08-18-P	NK cell line for evaluation of cytotoxicity of cloned TCRs
	Ciji Kobayashi, Tatsuhiko Ozawa, Atsushi Muraguchi, Hiroyuki Kishi Academic assembly, University of Toyama
WS08-19-P	HLA-F blockade restored the cytotoxicity of NK cells against colorectal cancer
	Noriko Ouji-Sageshima ¹⁾ , Masahiro Kitabatake ¹⁾ , Ryutaro Furukawa ¹⁾ , Akiko Ishitani ²⁾ , Daniel E Geraghty ³⁾ , Toshihiro Ito ¹⁾ ¹⁾ Department of Immunology, Nara Medical University, ²⁾ Department of Future basic medicine, Nara Medical University, ³⁾ Fred Hutchinson
	Cancer Research Center
WS08-20-P	Themis2 impairs anti-tumor activity of NK cells by suppressing activating NK receptor signaling
	○ Elfira Amalia Deborah ^{1,2)} , Tsukasa Nabekura ^{3,4)} , Kazuko Shibuya ^{1,4)} , Akira Shibuya ^{1,3,4)}
	¹⁾ Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan, ²⁾ Doctoral Program in Medical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, ³⁾ Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, ⁴⁾ R&D Center for Innovative Drug Discovery, Ibaraki 305-8575, University of Tsukuba, Japan
WS08-21-P	Essential role of CD155 glycosylation in functional binding to DNAM-1 on natural killer cells
	Saeko Tahara ^{1,2)} , Genki Okumura ^{1,3)} , Akira Shibuya ^{1,4,5)} , Kazuko Shibuya ^{1,5)} ¹⁾ Department of Immunology, Institute of Medicine, University of Tsukuba, ²⁾ School of Medicine, University of Tsukuba, ³⁾ Doctoral Program of Biomedical Sciences, Comprehensive Human Sciences, University of Tsukuba, ⁴⁾ Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba, ⁵ R&D Center for Innovative Drug Discovery, University of Tsukuba
WS08-22-P	iPS cell-derived NKT cells retain the adjuvant activity of inducing memory phenotype T cells
	Takahiro Aoki ^{1,2)} , Shinichiro Motohashi ¹⁾ , Haruhiko Koseki ²⁾
	¹⁾ Department of Medical Immunology, Graduate School of Medicine, Chiba University, ²⁾ Laboratory for Developmental Genetics, RIKEN Center for Integrative Medical Science
WS08-23-P	Evaluation of Innate and Adaptive Immunity in Patients with Cervical Cancer
	"Laboratory for Infilminotherapy, RIKEN Center for Integrative Medical Science, "JAVC Drug Translational Unit, RIKEN Center for Integrative Medical Science, "Program for Drug Discovery and Medical Technology Platforms, RIKEN, "Department of Obstetrics and Gynecology, Yokohama City University Graduate School of Medicine, "Molecular Pathology and Genetics Division, Kanagawa Cancer Center Research Institute, "Department of Molecular Pathology, Yokohama City University Graduate School of Medicine
WS08-24-P	Anti-CD4 mAb inhibits tumor growth in pulmonary fibrosis through enhancing antitumor effects of CD8 ⁺ T
	cells
	Takehiro Sakabe, Masahiro Kitabatake, Noriko Ouji-Sageshima, Tatsuki Nishioka, Toshihiro Ito Department of Immunology, Nara Medical University
WS08-25-P	Combined targeting of patient-specific anti-apoptotic molecules and cell surface proteins in high-risk
	lymphocytic and myeloid leukemia
	Ryo Nakagawa ^{1,4}), Mari Hashimoto ¹⁾ , Yoriko Saito ¹⁾ , Ari Itoh ¹⁾ , Shinsuke Takagi ²⁾ , Hanae Amitani ³⁾ , Mikiko Endo ³⁾ , Naoyuki Uchida ²⁾ , Yukihide Momozawa ³⁾ , Shuichi Taniguchi ²⁾ , Hideo Harigae ⁴⁾ , Fumihiko Ishikawa ¹⁾ 1)Laboratory for Human Disease Models, RIKEN Center for Integrative Medical Sciences, ²⁾ Department of Hematology, Toranomon Hospital, ³⁾ Laboratory for Genotyping Development, RIKEN Center for Integrative Medical Sciences, ⁴⁾ Department of Hematology, Tohoku Univ.
WS08-26-P	Spred2 deficiency in the host suppresses the progression of cancer in mouse breast cancer models
	Miao Tian, Teizo Yoshimura, Chunning Li, Toshiaki Ohara, Masayoshi Fujisawa, Akihiro Matsukawa

Department of Pathology and Experimental Medicine, Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama University

January 18

WS09	Infection immunity 2
WS09-	A bivalent SARS-CoV-2 mRNA vaccine encoding the SARS-CoV-2 receptor-binding domain broadly protects mice against infection with various SARS-CoV-2 omicron variants
	Ryuta Uraki ^{1,2)} , Masaki Imai ^{1,2)} , Mutsumi Ito ²⁾ , Seiya Yamayoshi ^{1,2)} , Maki Kiso ²⁾ , Nao Jounai ³⁾ , Kazuki Miyaji ³⁾ , Kiyoko Iwatsuki-Horimoto ²⁾ , Fumihiko Takeshita ³⁾ , Yoshihiro Kawaoka ^{1,2,4)} ¹⁾ National Center for Global Health and Medicine, ²⁾ The University of Tokyo, ³⁾ Daiichi Sankyo Co., Ltd., ⁴⁾ University of Wisconsin-Madison
WS09	Safety and immunogenicity of COVAC-2, a COVID-19 subunit vaccine adjuvanted with SEPIVAC SWE TM Ko Sugahara ¹⁾ , Houcine Nouari ¹⁾ , Juliette Ben Arous ¹⁾ , Falko Apel ²⁾ , Darryl Falzarano ³⁾ , Trina Racine ³⁾ SEPPIC SA, ²⁾ Vaccine Formulation Institute, ³⁾ Vaccine and Infectious Disease Organization (VIDO)
WS09-1	Understanding of SARS-CoV-2 pathogenicity in COVID-19 cynomolgus macaque model and consideration of its reinfection; contribute to the vaccine development Emiko Urano, Tomotaka Okamura, Yasuhiro Yasutomi National Institutes of Biomedical Innovation, Health and Nutrition
WS09	TMPRSS2 mAbs inhibit any mutants of SARS-CoV-2 infection in human lung organoid <i>in vitro</i> and
	cynomolgus monkey <i>in vivo</i> Michishige Harada ¹⁾ , Misako Nakayama ²⁾ , Rina Hashimoto ³⁾ , Takehisa Matsumoto ⁴⁾ , Kenichi Ohtaki ^{1,2)} , Natsuki Kojima ¹⁾ , Natsumi Yoneda ¹⁾ , Mikako Shirouzu ⁴⁾ , Kazuo Takayama ³⁾ , Yasushi Itoh ²⁾ , Takashi Saito ¹⁾ Riken Center for Integrative Medical Science (IMS), ²⁾ Shiga Univ. of Medical Science, ³⁾ Center for iPS Cell Research and Application (CiRA), Kyoto Univ., ⁴⁾ RIKEN Center for Biosystems Dynamics Research (BDR)
WS09	Production and characterization of the single-chain anti-spike antibody that reacts with the spike protein of Wuhan and all variant strains of SARS-CoV-2
	Tingyu Gao, Atsushi Irie, Takahisa Kouwaki, Hiroyuki Oshiumi Dep Immunol, Grad Sch Med Sci, Kumamoto university
WS09-	O6-O/P Interclonal B-cell competition for SARS-CoV-2 spike receptor-binding site limits cross-neutralizing memory B cell reactivation
	Yu Adachi, Ryutaro Kotaki, Saya Moriyama, Keisuke Tonouchi, Taishi Onodera, Kazutaka Terahara, Tomohiro Takano Ayae Nishiyama, Takayuki Matsumura, Masanori Isogawa, Yoshimasa Takahashi Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Japan
WS09	Low induction efficiency of anti-SARS-CoV-2 spike IgA antibodies at the upper respiratory tract by intranasal immunization
	 Kaori Sano, Hideki Asanuma, Kei Miyakawa, Hideki Hasegawa National Institute of Infectious Diseases
WS09-	Comprehensive analysis of nasal IgA antibodies induced by intranasal administration of the SARS-CoV-2 spike protein Nobuyuki Kurosawa ¹⁾ , Hideki Tani ²⁾ , Seiichi Koike ¹⁾ , Masaharu Isobe ¹⁾
MCOO	¹⁾ University of Toyama, ²⁾ Toyama Institute of Health
- WS09-I	Molecular basis of SARS-CoV-2 spike escape from HLA-A*24:02-restricted T cell receptor Chihiro Motozono¹¹, Aaron Wall²¹, Mako Toyoda¹¹, Hiroshi Hamana²¹, Keiko Udaka³.⁴¹, Pierre J Rizkallah²¹, Hiroyuki Kishi²¹, Andrew K Sewell²¹, Takamasa Ueno¹¹ Kumamoto University, Joint research center for Human Retrovirus infection, Division of Infection and Immunity, ²¹Cardiff University, School of Medicine, Division of Infection and Immunity, ³¹Toyama University, Academic Assembly, Faculty of Medicine, Department of Immunology, ⁴¹Kochi University, Department of Immunology

WS09-10-P

Inhibition of FAS-mediated necroptosis in alveolar epithelial cell suppresses lung injury and subsequent inflammasome activation in murine COVID-19 model

¹⁾Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University (TMDU), ²⁾Department of Pathology, National Institute of Infectious Diseases, ³⁾Center for Influenza and Respiratory Virus Research, National Institute of Infectious Diseases

WS09-11-P

Suppression of type I interferon signaling in myeloid cells by autoantibodies in severe COVID-19 patients

○ Atsushi Sasaki^{1,2)}, Ami Aoki¹⁾, Chiaki Iwamura¹⁾, Masahiro Kiuchi¹⁾, Kaori Tsuji¹⁾, Takahisa Hishiya¹⁾, Rui Hirasawa¹⁾, Kota Kokubo¹⁾, Atsushi Onodera¹⁾, Takuji Suzuki²⁾, Toshinori Nakayama³⁾, Kiyoshi Hirahara¹⁾

¹⁾Department of Immunology, Graduate School of Medicine, Chiba University, ²⁾Department of Respirology, Graduate School of Medicine, Chiba University, ³⁾Chiba University

WS09-12-P

Multimodal single-cell RNA-sequencing in 148 Japanese identified pathophysiological and host genetic involvement of innate immune cells in COVID-19 severity

O Ryuya Edahiro¹⁾, Yuya Shirai^{1,2)}, Yusuke Takeshima²⁾, Shuhei Sakakibara²⁾, Yuta Yamaguchi^{1,2)}, Teruaki Murakami^{1,2)}, Takayoshi Morita^{1,2)}, Yasuhiro Kato^{1,2)}, Yoshihiko Tomofuji^{1,3,4)}, Daisuke Okuzaki²⁾, Atsushi Kumanogoh^{1,2)}, Yukinori Okada^{1,2,3,4)}

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

WS09-13-P

FOXO1 inhibitor has the anti-viral and anti-inflammatory effects against SARS-CoV-2 infection in in vitro and in vivo models

Ryutaro Furukawa¹⁾, Noriko Ouji-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

WS09-14-O/P

ARNAX is a desirable adjuvant for a prophylactic vaccine against COVID-19 to enhance antigen-specific CD4* and CD8* T cell responses and neutralizing antibody induction

○ Tomomi Kawakita^{1,2)}, Toshiki Sekiya^{2,3,4)}, Yayoi Kameda⁵⁾, Naoki Nomura^{3,6)}, Marumi Ohno^{2,3)}, Chimuka Handabile^{2,3)}, Masashi Shingai^{1,2,3,4)}, Yasuhiko Suzuki^{2,5)}, Hiroshi Kida^{1,2,3,4)}, Misako Matsumoto^{1,7,8)}, Tsukasa Seya^{1,7,8)}

¹⁾Division of Vaccine Immunology, International Institute for Zoonosis Control, Hokkaido University, ²⁾Institute for Vaccine Research and Development (HU-IVReD), Hokkaido University, ³⁾Division of Biologics Development, International Institute for Zoonosis Control, Hokkaido University, ⁴⁾International Collaboration Unit, International Institute for Zoonosis Control, Hokkaido University, ⁵⁾Division of Bioresources, International Institute for Zoonosis Control, Hokkaido University, ⁵⁾Division of International Research Promotion, International Institute for Zoonosis Control, Hokkaido University, ⁷⁾Department of Vaccine Immunology, Graduate School of Medicine, Hokkaido University, ⁸⁾Nebuta Research Institute for Life Sciences, Aomori University

WS09-15-P

Consecutive BNT162b2 mRNA vaccination induces TLR4 tolerance in the innate immune system

¹⁾Division of Pharmacology, Graduate School of Medicine, Kobe University, ²⁾Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University

WS09-16-P

Regnase-1 haploinsufficiency restricted SARS-CoV-2 pneumonia in mice by altering the immune responses in the lung

Kotaro Tanaka, Keiko Yasuda, Junichi Aoki, Osamu Takeuchi
 Department of Medical Chemistry, Graduate School of Medicine, Kyoto University

WS09-17-P

Analysis of S-specific T cell responses after SARS-CoV-2 mRNA vaccines in people living with HIV

○ Ai Kawana-Tachikawa^{1,2,3)}, Thi Thu Thao Dang^{1,2)}, Alitzel Anzurez^{1,2)}, Kaori Nakayama-Hosoya¹⁾, Aki Tanabe¹⁾, Yukihiro Yoshimura⁴⁾, Natsuo Tachikawa⁴⁾, Tetsuro Matano^{1,2,3)}

¹⁾National Institute of Infectious Diseases, ²⁾Joint Research Center for Human Retrovirus Infection, ³⁾Institute of Medical Science, University of Tokyo, ⁴⁾Yokohama Municipal Citizens' Hospital

WS09-18-P WS09-19-P	Pro-inflammatory cytokine production after SARS-CoV-2 infection in people living with HIV Alitzel Anzurez ^{1,2)} , Lucky Runtuwene ¹⁾ , Thi Thu Thao Dang ^{1,2)} , Kaori Hosoya-Nakayama ¹⁾ , Aki Tanabe ¹⁾ , Michiko Koga ⁴⁾ , Yukihiro Yoshimura ⁵⁾ , Natsuo Tachikawa ⁵⁾ , Tetsuro Matano ^{1,2,3)} , Ai Kawana-Tachikawa ^{1,2,3)} AlDS Research Center, National Institute of Infectious Diseases, Tokyo, Japan, Department of Hips Vaccine Development, Institute of Medical Science, University of Tokyo, Tokyo, Japan, Department of Infectious Diseases, Advanced Clinical Research Center, Institute of Medical Science, University of Tokyo, Tokyo, Japan, Department of Infectious Diseases, Yokohama Municipal Citizens' Hospital, Kanagawa, Japan Characterization of early induced HIV-specific functional antibody (ANRS CO6 Primo Cohort) Li-Yun Lin ¹⁾ , Julie Lucas ¹⁾ , Nicodème Paul ¹⁾ , Géraldine Laumond ¹⁾ , Sylvie Schmidt ¹⁾ , Asma Essat ²⁾ ,
	Laurence Meyer ^{2,3}), Cécile Goujard ^{2,4}), Seiamak Bahram ^{1,5}), Christiane Moog ^{1,6}) ¹⁾ UMR_S 1109 INSERM, Fédération de Médecine Translationnelle de Strasbourg (FMTS), Université de Strasbourg, Strasbourg, France, ²⁾ Centre de Recherche en Epidémiologie et Santé des Populations (CESP), INSERM U1018, Université Paris-Saclay, Le Kremlin-Bicêtre, France, ³ AP-HP, Service d'Epidémiologie et de Santé publique, Hôpital Bicêtre, Le Kremlin-Bicêtre, France, ⁴ AP-HP, Service de Médecine interne et d'Immunologie clinique, Hôpital Bicêtre, Le Kremlin-Bicêtre, France, ⁵ Laboratoire d'Immunologie, Plateau Technique de Biologie, Pôle de Biologie, Nouvel Hôpital Civil, Strasbourg, ⁶ Vaccine Research Institute (VRI), Paris, France
WS09-20-P	Characterization of MARCH2 protein and its anti-HIV-1 functions Supawadee Umthong ^{1,2)} , Uddhav Timilsina ²⁾ , Mary D'Angelo ²⁾ , Spyridon Stavrou ²⁾ Department of Biochemistry and Microbiology, Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand, Department of Microbiology and Immunology, Jacobs School of Medicine and Biomedical Sciences, SUNY, University at Buffalo, NY, United States
WS09-21-P	Molecular basis for the regulation of host T cell function by the HIV-2 Nef protein Ryota Koseki ¹⁾ , Idai Ozawa ¹⁾ , Kengo Hirao ¹⁾ , Takashi Tadokoro ²⁾ , Sophie Andrews ³⁾ , Sarah Rowland-Jones ³⁾ , Kimiko Kuroki ¹⁾ , Katsumi Maenaka ¹⁾ Hokkaido Univ., ²⁾ Sanyo-Onoda City Univ., ³⁾ University of Oxford
WS09-22-O/P	High levels of Gas6 induced by cellular senescence in aged mice cause severe infections Yukie Kure, Takehiko Shibata Tokyo Medical University
WS09-23-O/P	Modulation of lipid metabolism by regulating SCD2 activation induced augmentation of anti-viral response Toshio Kanno, Yusuke Endo, Keisuke Miyako Kazusa DNA Research Institute, Laboratory of Medical Omics Research
WS09-24-P	Immunization with inactivated whole influenza virus particle vaccines improves the humoral response

landscape in cynomolgus macaques

○ Toshiki Sekiya^{1,2,3,4)}, Brendon Y Chua^{2,4)}, Marios Koutsakos⁴⁾, Naoki Nomura¹⁾, Louise C Rowntree⁴⁾, Thi H. O Nguyen⁴), Marumi Ohno^{1,3}), Masafumi Endo⁵), Amy W Chunq⁴), Masashi Shingai^{1,2,3}), Katherine Kedzierska^{2,3,4}), Hiroshi Kida^{1,2,3)}

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WS09-25-P

Pulmonary immunization of adenovirus-vectored vaccines induces a higher and more durable humoral immune response than the parental vaccines with the local generation of plasma cells in the lung

○ Toshiro Hirai^{1,2,3,4)}, Koki Ueda^{2,3)}, So-ichiro Hashimoto^{2,3)}, Kazuo Takayama⁵⁾, Yasuo Yoshioka^{1,2,3,4,6,7,8)} ¹⁾Institute for Open and Transdisciplinary Research Initiatives, Osaka University, ²⁾Vaccine Creation Group, Research Institute for Microbial Diseases, Osaka University, 31Laboratory of Nano-design for Innovative Drug Development, Graduate School of Pharmaceutical Sciences, Osaka University, ⁴⁾Center for Advanced Modalities and DDS, Osaka University, ⁵⁾Center for iPS Cell Research and Application, Kyoto University, ⁶⁾The Research Foundation for Microbial Diseases of Osaka University, 7Global Center for Medical Engineering and Informatics, Osaka University, 8) Center for Infectious Disease Education and Research, Osaka University

WS09-26-P

A highly active form of XCL1 predominantly induces central memory CD8* T cells by recruiting cDC1 migration to draining lymph nodes without strong activation

C Kazuhiko Matsuo¹⁾, Momo Kamei¹⁾, Shiki Takamura²⁾, Osamu Yoshie^{3,4)}, Takashi Nakayama¹⁾ ¹⁾Div. Chemother., Kindai Univ. Fac. Pharm., ²⁾RIKEN-IMS, ³⁾Kindai Univ. Fac. Med., ⁴⁾Kampo Health Inst.

WS10 Effector differentiation and function of T cells

WS10-01-P	TCR-pMHC complex formation triggers CD3 dynamics Floris J. van Eerden ¹⁾ , Aalaa Alrahman Sherif ²⁾ , Hendra S. Ismanto ²⁾ , Mara Anais Llamas-Covarrubias ²⁾ , Arthur Millius ¹⁾ , Xiuyuan Lu ³⁾ , Shigenari Ishizuka ⁴⁾ , Sho Yamasaki ^{3,4)} , Daron M. Standley ²⁾ Department of Systems Immunology, Immunology Frontier Research Center, Osaka University, 3-1 Yamadaoka, Suita, 565-0871, Japan, Department of Genome Informatics, Research Institute for Microbial Diseases, Osaka University, 3-1 Yamadaoka, Suita, 565-0871, Japan, Alaboratory of Molecular Immunology, Immunology Frontier Research Center, Osaka University, 3-1 Yamadaoka, Suita, 565-0871, Japan, Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, 3-1 Yamadaoka, Suita, 565-0871, Japan,
WS10-02-O/P	CD4/CD8 coreceptor binding to MHCs positively regulate CAR-T cell response via translocation of Lck into CAR microclusters O Hiroaki Machiyama ¹⁾ , Ei Wakamatsu ¹⁾ , Arata Takeuchi ¹⁾ , Hitoshi Nishijima ¹⁾ , Maksim Mamonkin ²⁾ , Malcolm K Brenner ²⁾ , Tadashi Yokosuka ¹⁾
	¹⁾ Department of Immunol, Tokyo Medical University, ²⁾ Center for Cell and Gene Therapy, Baylor College of Medicine
WS10-03-P	Fine tuning of T cell activation by multistep regulation of CD6 and its ligand CD166 Arata Takeuchi, Tatsushi Nishikawa, Hiroaki Machiyama, Ei Wakamatsu, Hitoshi Nishijima, Masae Furuhata, Hiroko Toyota, Ryohei Matsushima, Yosuke Yoshida, Tadashi Yokosuka Department of immunology, Tokyo Medical University
WS10-04-P	STAP-2-derived peptide suppresses TCR-mediated T cell activation and experimental autoimmune encephalomyelitis Shoya Kawahara ¹ , Yuto Sasaki ¹ , Teppei Takeda ¹ , Fumiya Okuyama ¹ , Jun-ichi Kashiwakura ² , Kenji Oritani ³ , Tadashi Matsuda ¹ Department of immunology, Graduate school of Pharmaceutical Sciences, Hokkaido University, Department of Life Sciences, Faculty of Pharmaceutical Sciences, Hokkaido University of Health and Welfare
WS10-05-P	The Arf pathway maintains T cell survival during activation by modulating the level of mTORC1 signal Mami Sumiyoshi ¹⁾ , Yui Kotani ^{1,2)} , Satoshi Matsuda ¹⁾ Dept of Cell Signaling, Inst. of Biomed. Sci., Kansai Med.Univ., ²⁾ Dep. Vasc Phys., NCVC
WS10-06-P	RIPK1 blocks T cell senescence mediated by RIPK3 and caspase-8 Takayuki Imanishi ^{1,2)} , Takashi Saito ²⁾ Tikitasato University, ²⁾ RIKEN
WS10-07-P	Rap1-Talin1 axis facilitates front-back cell polarity independent of talin1 binding to integrins in lymphocyes Yoshihiro Ueda ¹ , Koichiro Higasa ² , Yuji Kamioka ¹ , Naoyuki Kondo ¹ , Shunsuke Horitani ³ , Yoshiki Ikeda ¹ , Wolfgang Bergmeier ⁴ , Yoshinori Fukui ⁵ , Tatsuo Kinashi ¹ Department of Molecular Genetics, Kansai Medical University, Department of Genome Analysis, Kansai Medical University, The third Department of Internal Medicine, Kansai Medical University, Department of Biochemistry and Biophysics, Blood Research Center, University of North Carolina, Chapel Hill, NC, USA., Division of Immunogenetics, Department of Immunobiology and Neuroscience, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan. PMID: 37520697 PMCID: PMC10374465
WS10-08-O/P	Rap1-GAPs Rasa3 and Sipa1 are required for pulmonary transit and egress from the lymph nodes in T cells Shunsuke Horitani, Yoshihiro Ueda, Yuji Kamioka, Naoyuki Kondo, Makoto Naganuma, Tatsuo Kinashi Kansai Medical Univ.
WS10-09-O/P	miRNA-200c-3p controls alpha4beta7 integrin-mediated T-cell adhesion and migration Khwanchanok Mokmued, Gideon Obeng, Eri Matsuo, Arong Gaowa, Motomu Shimaoka, Eun Jeong Park Mie University Graduate School of Medicine

WS10-10-P	Fatty acid prevents functional cytotoxic T lymphocyte maturation, but not effector functions, by suppression of IL-2 production
	 Hidefumi Kojima Division for Technical Support, Center for Research Collaboration and Support, Dokkyo Medical Univ. Sch. of Med.
WS10-11-P	Characteristics of LAMP assay for detecting tumor-reactive CD8 ⁺ T cells
	 Haruka Shimizu, Hiroyasu Aoki, Mikiya Tsunoda, Masaki Kurosu, Haru Ogiwara, Kouji Matsushima, Satoshi Ueha Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, Tokyo, Japan
WS10-12-P	The expression and functional role of cytotoxicity-associated molecule, Nkg7, in murine CD4 ⁺ T cells
	 Yui Hirao, Ayaka Misawa, Ritsuki Tanabe, Yuka Okabe, Hiroaki Takimoto, Koji Eshima Kitasato University school of science
WS10-13-O/P	CD47 promotes peripheral T cell survival by preventing dendritic cell–mediated T cell necroptosis
	Satomi Komori ¹⁾ , Yasuyuki Saito ²⁾ , Tania Afroj ²⁾ , Tomoko Takai ¹⁾ , Okechi S Oduori ¹⁾ , Takenori Kotani ²⁾ , Yoji Murata ²⁾ , Takashi Matozaki ¹⁾
	¹⁾ Division of Biosignal Regulation, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, ²⁾ Divisio of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine
WS10-14-O/P	Epitranscriptomic shaping of signal transduction controls the development, activation and survival of T cells
	○ Taku Kureha, Vigo Heissmeyer Ludwig-Maximilians-Universität in Munich
WS10-15-P	The effectiveness of traditional Thai massage to reduce the percentage of atypical CD4 ⁺ T cells and
	proinflammatory cytokines in elderly population
	Amonrat Jumnainsong ^{1,2)} , Kanda Sornkayasit ^{1,2)} , Uki Wulanggita ^{1,2)} , Wisitsak Phoksawat ³⁾ , Wichai Eungpinichpong ⁴ Chanvit Leelayuwat ^{1,2)}
	¹⁾ School of Medical Technology, Faculty of Associated Medical Sciences, Khon Kaen University, Khon Kaen, Thailand, ²⁾ The Centre for Research and Development of Medical Diagnostic Laboratories (CMDL), Faculty of Associated Medical Sciences, Khon Kaen University, Khon Kaen, Thailand, ³⁾ Department of Microbiology, Faculty of Medicine, Khon Kaen University, Khon Kaen, Thailand, ⁴⁾ School of Physical Therapy, Faculty of Associated Medical Sciences, Khon Kaen University, Khon Kaen, Thailand
WS10-16-O/P	Stress-induced glucocorticoids exacerbate inflammatory diseases by promoting Th17 cell differentiation
	○ Akihiro Shimba ¹⁾ , Koichi Ikuta ²⁾
	¹⁾ Department of Human Health Sciences, Graduate School of Medicine, Kyoto University, ²⁾ Laboratory of Immune Regulation, Department of Virus Research, Institute for Life and Medical Sciences, Kyoto University
WS10-17-P	Is the regulatory activity of TRAF5 for IL-6 receptor signaling important for the differentiation of follicular helper T cells?
	 Mari Hikosaka-Kuniishi¹⁾, Sayaka Ogawara¹⁾, Chieri Iwata¹⁾, Tomomi Wakaizumi¹⁾, Hodaka Nagai¹⁾, Mitsuki Azuma¹⁾, 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
WS10-18-P	Bob1 maintains T follicular helper cells for long-term humoral immunity
	Ippei Ikegami ¹⁾ , Masahiro Yanagi ^{1,2)} , Taiki Sato ¹⁾ , Ryuta Kamekura ¹⁾ , Hirofumi Chiba ²⁾ , Shingo Ichimiya ¹⁾ ¹⁾ Department of Human Immunology, Research Institute for Frontier Medicine, Sapporo Medical University School of Medicine, ²⁾ Department of Respiratory Medicine and Allergology, Sapporo Medical University School of Medicine
WS10-19-P	A novel mouse model for functional analysis of various genes in follicular helper cells
	O Kouhei Ohba ¹⁾ , Mahoro Osanai ¹⁾ , Shuhei Ogawa ²⁾ , Yohsuke Harada ¹⁾ The Eaculty of Pharmaceutical Sciences, Tokyo University of Science, The Eaculty of Pharmaceutical Sciences, Tokyo University of Science
WS10-20-P	Memory-like T cells induced in serum-free cultures
	Yasuhito Tokumoto, Yasuto Araki

Saitama Medical University

WS10-21-P	Sialyl Lewis X glycan antigen: A cell surface marker of activated and functional regulatory T cells in mice Kanae Ohishi, Asaki Ishikura, Shogo Nishida, Hirohito Abo, Hiroko Nakatsukasa, Hiroto Kawashima Laboratory of microbiology and immunology, Graduate school of pharmaceutical science, Chiba University
WS10-22-P	T-B doublet formation represents early signs of antigen-specific T cell activation Naoko Ikuta ¹ , Yuka Nakajima ¹ , Toyoko Katayama ² , Yukako Kamita ¹ , Hitoshi Uga ² , Tasuku Honjo ³ , Akio Ohta ¹ Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe, Kobe, Japan, Central Research Laboratories, Sysmex Corporation, Kobe, Japan, Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology Graduate School of Medicine, Kyoto University, Kyoto, Japan
WS10-23-P	Structural and functional characterization of recombinant OX40 ligand fusion proteins Ayaka Sato ¹ , Mitsuki Azuma ¹ , Hodaka Nagai ¹ , Aya Ito ¹ , Masashi Morita ¹ , Mari Hikosaka Kuniishi ¹ , Naoto Ishii ² , Takanori So ¹ Takanori So ¹ Takanori So ¹ Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan
WS10-24-P	Functional characterization of antibody fusion-single-chain TNF proteins that agonize costimulatory TNFR expressed by T cells — Hodaka Nagai ¹⁾ , Mitsuki Azuma ¹⁾ , Ayaka Sato ¹⁾ , Sayaka Ogawara ¹⁾ , Yuta Tsutsui ¹⁾ , Ayano Suzuki ¹⁾ , Shimpei Matsuyama ¹⁾ , Tomomi Wakaizumi ¹⁾ , Masashi Morita ¹⁾ , Mari Hikosaka-Kuniishi ¹⁾ , Naoto Ishii ²⁾ , Takanori So ¹⁾ — "Laboratory of Molecular Cell Biology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, Sendai, Japan
WS10-25-P	Basic characterization of TNF ligand-based agonists targeting OX40, 4-1BB, CD27, and GITR expressed by T cells Takanori So ¹⁾ , Hodaka Nagai ¹⁾ , Mitsuki Azuma ¹⁾ , Ayaka Sato ¹⁾ , Ayano Suzuki ¹⁾ , Aya Ito ¹⁾ , Masashi Morita ¹⁾ , Mari Hikosaka-Kuniishi ¹⁾ , Naoto Ishii ²⁾ Grad Sch Med Pharm Sci, Univ of Toyama, ²⁾ Tohoku Univ Grad Sch Med
WS10-26-O/P	Sulfated bile acid is a self-antigen for MAIT cells required for their development and maintenance Emi Ito ^{1,2)} , Ami Takeyama ^{1,2)} , Eri Ishikawa ^{1,2)} , Sho Yamasaki ^{1,2)} Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, Dapan, Dap
WS10-27-O/P	An unconventional death: Impact of necroptotic cell death machinery on mucosal-associated invariant T cell abundance Timothy Patton ¹ , Zhe Zhao ¹ , Nazli Somuncuoglu ¹ , Eleanor Eddy ¹ , Huimeng Wang ¹ , Jeremy Le ¹ , Sidonia B G Eckle ¹ , Michael N T Souter ¹ , James McCluskey ¹ , Zhenjun Chen ¹ , Kate E Lawlor ^{2,3,4,5} , Alexandra J Corbett ¹ Department of Immunology and Microbiology, University of Melbourne at the Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, ² Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Department of Molecular and Translational Science, Monash University, Clayton, Australia, ³ Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, ⁴ Department of Medical Biology, University of Melbourne, Parkville, Australia, ⁵ Department of Molecular and Translational Science, Monash University, Clayton, Australia
January 18	
WS11 Cellula	ar basis for the development of pathogenic or tissue-resident macrophages
WS11-01-O/P	Identification of osteal macrophages subset with pathological function in bone as a potential target for treatment of postmenopausal osteoporosis Alaa Terukawa, Yoshio Nishida, Norimasa Iwasaki Department of Orthopedic Surgery. School of Medicine, Hokkaido University
WS11-02-O/P	PCBP1 acts as a regulator of CCL2 expression in macrophages to induce recruitment of monocyte-derived macrophages into the inflamed colon

ONobuyuki Onai¹⁾, Xinquan Yang¹⁾, Toshiki Yabe-Wada¹⁾, Jia Han²⁾, Fumiji Saito¹⁾, Chie Ogasawara¹⁾, Sohsuke Yamada²⁾
Department of Immunology, Kanazawa Medical University, Department of Pathology and Laboratory Medicine, Kanazawa Medical University

WS11-03-O/P	Polarization of M2 macrophages and development of renal fibrosis are caused by transglutaminase, a protein cross-linking enzyme
	 Hideki Tatsukawa, Yoshiki Shinoda, Kiyotaka Hitomi Cellular Biochemistry Lab., Graduate School of Pharmaceutical Sciences, Nagoya University
WS11-04-P	Macrophages transform amnion mesenchymal cells into myofibroblasts in intrauterine bleeding (subchorionic hematoma) during pregnancy — Eriko Yasuda, Mogami Haruta, Sunao Matsuzaka, Yu Matsuzaka, Asako Inohaya, Takahito Takakura,
	Yoshitsugu Kawamura, Masaki Mandai Kyoto University Graduate School of Medicine Department of Gynecology and Obstetrics
WS11-05-O/P	EGR2 plays a pivotal role in the differentiation of Ly6C ^{hi} monocytes into fibrosis-promoting macrophages in non-alcoholic steatohepatitis
	 Ayaka Iwata, Natsuki Shibata, Kenichi Asano, Masato Tanaka Laboratory of Immune Regulation, School of Life Sciences, Tokyo University of Pharmacy and Life Sciences
WS11-06-P	Rapid inflammatory responses might induce migration of macrophages to fetal membranes in the mouse model of intrauterine infection
	 Yu Matsuzaka, Haruta Mogami, Sunao Matsuzaka, Eriko Yasuda, Asako Inohaya, Masahito Takakura, Yoshitsugu Chigusa, Masaki Mandai Department of Gynecology and Obstetrics, Kyoto University Graduate School of Medicine
WS11-07-P	CCR2/5-associated FROUNT regulates macrophage cytokine expression through modulation of MAP kinase pathway Etsuko Toda ^{1,2)} , Kouji Matsushima ²⁾ , Yuya Terashima ²⁾ , Akira Shimizu ¹⁾
	¹⁾ Nippon Medical School, ²⁾ Tokyo University of Science
WS11-08-P	Modulation of gut microbiota by antibiotics treatment affect the development of liver inflammation and fibrosis in a novel dietary mouse model of NASH
	Shun Takano ¹⁾ , Yukihiro Furusawa ¹⁾ , Koichi Tsuneyama ²⁾ , Yoshinori Nagai ¹⁾ Department of Biological and Pharmaceutical Engineering, Toyama Prefectural University, ²⁾ Department of Pathology and Laboratory Medicine, Tokushima University Graduate School
WS11-09-P	Csf1-producing cell contributes to the maintenance of macrophage in Peyer's patches
WS11-10-O/P	RANKL-expressing cells in the primary ossification center functions as an osteoclast niche during early
	bone marrow development
	○ Eriko Sumiya ^{1,2)} , Shinichiro Sawa ²⁾ ¹⁾ University of Tokyo, ²⁾ Kyushu University
WS11-11-O/P	Identification of CSF1–producing cells required for the maintenance of intestinal macrophages
	Daichi Nonaka ¹⁾ , Soichiro Yoshida ¹⁾ , Eriko Sumiya ²⁾ , Shinichiro Sawa ¹⁾ Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University, Department of Orthopedic Surgery, Faculty of Medicine, The University of Tokyo, Tokyo, Japan
WS11-12-P	Enhanced production of macrophages from human induced pluripotent stem cells by exogenous FLT3 activation
	Kenji Kitajima ¹⁾ , Hikaru Ando ^{1,2)} , Takahiko Hara ^{1,2,3)} ¹⁾ Tokyo Metropolitan Institute of Medical Science, ²⁾ Tokyo Medical and Dental Univ., ³⁾ Tokyo Metropolitan Univ.
WS11-13-P	Induction of unique macrophage subset by simultaneous stimulation with LPS and IL-4
	Nei Ishida ^{1,2)} , Takahiro Nagatake ^{1,3)} , Azusa Saika ^{1,4)} , Koji Hosomi ¹⁾ , Jun Kunisawa ^{1,2)} National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, and Nutrition, Posaka University, National Institutes of Biomedical Innovation, Health, Auditorial Innovation, Health, Institutes of Biomedical Innovation,

Research

WS11-14-O/P	Characterization of bone marrow-derived macrophages induced in a CSFRs-independent but TREM2-dependent manner Shin-ei Matsumoto, Hiromitsu Hara Department of Immunology, Kagoshima University Graduate School of Medical and Dental Sciences
WS11-15-P	In vitro differentiation of a cell line into macrophage-like cells for cell-dynamics analysis Akira Yamauchi ¹⁾ , Shuichiro Okamoto ¹⁾ , Kei Miyano ²⁾ , Futoshi Kuribayashi ¹⁾ Kawasaki Medical School, Department of Biochemistry, ²⁾ Kawasaki Medical School, Department of Natural Sciences
WS11-16-P	The characterization of cultured common lymphoid progenitor-derived monocytic cells (cCLP-M) Yohei Kawano, Mizuki Moriyama, Shun Ohki, Yasuo Kitajima, Tomoharu Yasuda Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University
WS11-17-O/P	Development of a novel VeDTR mice for labelling and removal of alveolar macrophages Yuki Nakayama, Masahiro Yamamoto Department of Infectious Diseases, Research Institute for Microbial Diseases, Osaka University, Japan
WS11-18-P	Unique cell harvesting technology by using UpCell® without trypsinization Yuzo Kasuya, Asumi Yoshihara, Eriko Ikeda CellSeed Inc.
January 18	
WS12 Autoim	munity in arthritis and Fibrosis
WS12-01-O/P	Function of ectopic MHC class II expression on non-immune cells in immune response Wataru Nakai ^{1,2)} , Yuta Shimizu ^{1,2)} , Masako Kohyama ^{1,3)} , Hisashi Arase ^{1,2,3)} Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, ² Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, ³ Regulation of Host Defense Team, Center for Infectious Disease Education and Research, Osaka University
WS12-02-P	Glycolysis in CD8 ⁺ T cells plays a major role in the onset of HLA-mediated idiosyncratic drug-induced autoimmune toxicity mouse model
	○ Takeshi Susukida¹¹, Shigeki Aoki²¹, Yuchen Sun³³, Yoshihiro Hayakawa¹¹ ¹¹Laboratory of Cancer Biology and Immunology, Section of Host Defenses, Institute of Natural Medicine, University of Toyama, ²¹Laboratory of Biopharmaceutics, Graduate School of Pharmaceutical Sciences, Chiba University, ³¹Division of Medicinal Safety Science, National Institute of Health Sciences
WS12-03-P	Induction of antigen-specific Treg in vivo with mRNA Shota Imai ¹⁾ , Tomoyoshi Yamano ^{2,3)} , Rikinari Hanayama ^{2,3)} Department of immunology, School of Frontier Science initiative division of Nano life science, Kanazawa university, ²⁾ Department of immunology, Graduate School of Medical Sciences, Kanazawa university, ³⁾ WPI Nano Life Science Institute (NanoLSI), Kanazawa university
WS12-04-P	Extracellular aaRSs drive pathogenesis of rheumatoid arthritis via cytokine and PAD4 release Akihiro Kimura, Harumi Suzuki National Center for Global Health and Medicine
WS12-05-O/P	Synovial regulatory T cells expressing ST2 deteriorate joint inflammation Koto Hattori ¹⁾ , Shigeru Tanaka ¹⁾ , Jun Tamura ¹⁾ , Keishi Etori ¹⁾ , Steven F. Ziegler ²⁾ , Hiroshi Nakajima ¹⁾ Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, ² Immunology Program, Benaroya Research Institute
WS12-06-P	Fibroblast growth factor receptor 1 marks terminal effector peripheral T helper cells in rheumatoid arthritis patients
	Ckeishi Etori ¹⁾ , Shigeru Tanaka ¹⁾ , Jun Tamura ¹⁾ , Koto Hattori ¹⁾ , Shin-Ichiro Kagami ²⁾ , Junichi Nakamura ³⁾ , Seiji Ohtori ³⁾ , Hiroshi Nakajima ¹⁾ Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan, PResearch Center for Allergy and Clinical Immunology, Asahi General Hospital, Chiba, Japan, Department of Orthopedic Surgery, Graduate School of Medicine, Chiba University, Chiba, Japan

WS12-07-O/P

Parsing synovial pathology related to treatment resistance in Japanese rheumatoid arthritis patients by 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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WS12-08-O/P

Dysregulated *NUB1* and Neddylation Enhances Rheumatoid Arthritis Fibroblast-Like Synoviocyte Inflammatory Responses via NF-kB Pathway

○ Sho Sendo^{1,2)}, Camilla R.L. Machado¹⁾, David L Boyle¹⁾, Gary S Firestein¹⁾

"University of California, San Diego, "Kobe University Hospital"

WS12-09-P

Human synovial Tph cells are pleiotropically involved in RA pathogenesis

Akinori Murakami^{1,2)}, Rinko Akamine²⁾, Takayuki Fujii^{1,3)}, Koichi Murata^{1,3)}, Kohei Nishitani¹⁾, Hiromu Ito^{1,3,4)}, Motomu Hashimoto⁵⁾, Yukinori Okada^{6,7,8)}, Shuichi Matsuda¹⁾, Hideki Ueno^{2,9)}, Hiroyuki Yoshitomi^{2,9)}

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WS12-10-P

Analysis of age-related Treg changes in patients with rheumatoid arthritis and its mouse model

Taihei Nishiyama, Ayako Ohyama, Haruka Miki, Hiromitsu Ashashima, Yuya Kondo, Hiroto Tsuboi, Isao Matsumoto Department of Rheumatology, Institute of Medicine, University of Tsukuba

WS12-11-P

GM-CSF-induced differentiation and activation of CCR2+ monocytes in inflamed joints exacerbates synovial inflammation in autoimmune arthritis

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

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WS12-12-P

Distinct Pathogenic Mechanisms in HLA-B27-Negative Axial Spondyloarthritis: Contributions of Interferon-Activated CD4⁺ T Cells and CD56^{Bright} NK Cell

○ Sotaro Nakajima¹⁾, Haruka Tsuchiya¹⁾, Risa Yoshihara¹⁾, Kazuyoshi Ishigaki^{1,2)}, Haruka Takahashi¹⁾,
Tomohisa Okamura³⁾, Kazuhiko Yamamoto⁴⁾, Hiroko Kanda^{1,5)}, Hirofumi Shoda¹⁾, Tetsuya Tomita^{6,7)}, Keishi Fujio¹⁾

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WS12-13-P

Analysis of clinical utility of soluble TIM-4 in rheumatoid arthritis patient serum

○ Hisaya Akiba¹⁾, Yoshiyuki Abe²⁾, Toko Tabe³⁾, Naoto Tamura²⁾, Sachiko Miyake¹⁾

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WS12-14-O/P

Myeloid-derived suppressor cells from the inflamed joints of arthritic SKG mice differentiate into osteoclasts and exacerbate arthritis

Alfonso del Peral Fanjul¹), Sho Sendo¹), Yoshikazu Fujikawa¹), Takumi Nagamoto¹), Hirotaka Yamada¹),
 Akio Morinobu^{1,2}). Jun Saegusa¹)

¹⁾Kobe University Graduate School of Medicine Department of Rheumatology and Clinical Immunology, ²⁾Department of Rheumatology and Clinical Immunology, Kyoto University Graduate School of Medicine

WS12-15-O/P	Differential TCR affinities for self antigens between Treg and arthritogenic Th17 cells shape the functional
W312-13-0/F	imbalance that cause autoimmune arthritis
	Yusuke Takeuchi ^{1,2)} , Daiya Ohara ¹⁾ , Hitomi Watanabe ¹⁾ , Gen Kondoh ¹⁾ , Akio Morinobu ²⁾ , Keiji Hirota ¹⁾ ¹⁾ Laboratory of Integrative Biological Science, Institute for Life and Medical Sciences, Kyoto University, ²⁾ Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University
WS12-16-P	MHC-DRB alleles with amino acids Val11, Phe13, and shared epitopes promote a IgG1 response and development of collagen-induced arthritis in Filipino cynomolgus macaques
	 Hirohito Ishigaki, Yasushi Itoh Shiga University of Medical Science, Dept of Pathology, Pathogenesis and Disease Regulation
WS12-17-O/P	Identification of ETS1 as the common activator for polarization of tissue-remodeling fibroblasts
	O Noriko Komatsu ¹⁾ , Minglu Yan ¹⁾ , Masayuki Tsukasaki ²⁾ , Hiroshi Takayanagi ¹⁾ Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan
WS12-18-P	Myeloid-specific Ezh2 deficiency plays a pathogenic role in the bleomycin-induced experimental model of scleroderma
	 Benjawan Saechue¹⁾, Supatta Chawalitpong²⁾, Haruhiko Koseki³⁾, Nattiya Hirankarn⁴⁾, Wijit Banlunara⁵⁾, Benchaphorn Limcharoen⁶⁾, Tanapat Palaga²⁾, Sita Virakul²⁾
	¹⁾ Faculty of Veterinary Science, Mahasarakham University, ²⁾ Department of Microbiology, Faculty of Science, Chulalongkorn University, ³⁾ Center for Integrative Medical Sciences, RIKEN, Japan, ⁴⁾ Center of Excellence in Immunology and Immune mediated Disease, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁵⁾ Department of Pathology, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, Thailand, ⁶⁾ Department of Anatomy, Faculty of Veterinary Science, Chulalongkorn University, Bangkok, Thailand
WS12-19-P	ILC3s exacerbate pulmonary fibrosis by activating ILC2s through neutrophils Yuki Hara ¹⁾ , Yasutaka Motomura ¹⁾ , Kazuyo Moro ^{1,2)} 1)Osaka University, ²⁾ RIKEN IMS
WS12-20-O/P	TNF_{α} -induced adipose-related protein (TIARP) suppresses the pathogenesis of bleomycin-induced pulmonary fibrosis
	 Haruka Miki, Ayaka Miyamoto, Hiroto Tsuboi, Fumika Honda, Ayako Oyama, Saori Abe, Ayako Kitada, Hiromitsu Asashima, Yuya Kondo, Isao Matsumoto Department of Rheumatology, Institute of Medicine, University of Tsukuba
January 18	}
WS13 Tolera	nnce and immune suppression-2
WS13-01-O/P	Overexpression of BATF enhances proliferative and suppressive activities of Treg cells <i>in vivo</i>
	○ Kohta Matsuura, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS13-02-O/P	Preferential Induction of Regulatory T Cells by Ubiquitinated MHC II
	 Yuko Kozono, Baicheng Fan, Satoshi Ueha, Haruo Kozono Research Institue for BioMedical Sciences, Tokyo University of Sciences
WS13-03-O/P	Oral tolerance inhibits DTH in the sensitization phase by Treg-mediated suppression of DC functions in skin dLNs
	○ Arisa Akagi ¹⁾ , Rintaro Shibuya ²⁾ , Sho Hanakawa ³⁾ , Akihiko Kitoh ¹⁾ , 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), Singapore

WS13-04-0/P	Temporal and spatial dynamics of immune cells in mouse liver transplantation revealed by mass cytometry and Single-cell RNA sequencing Xin Hu ¹ , Weitao Que ^{2,3} , Yifang Shui ² , Masayuki Fujino ¹ , Xiao-Kang Li ¹ National Research Institute for Child Health and Development, ² The First Affiliated Hospital of Zhengzhou University, ³ Shanghai General Hospital, Shanghai Jiao Tong University School of Medicine
WS13-05-O/P	VISTA regulates monocyte adhesion via TGF-beta; a targetable mechanism for hyper-adhesive monocytes in psoriasis? (Nentaro Ohko¹), Kozo Nakai¹), Thomas McCormick²), Kevin Cooper².3) (Department of Dermatology, Kochi Medical School, ²Department of Dermatology, Case Western Reserve University, ³University Hospitals Cleveland Medical Center
WS13-06-O/P	Foxp3 ^{A384T} mutation represses <i>Myc</i> transcription without globally affecting chromatin accessibility in effector Treg cells Suzu Kawagoe, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS13-07-P	The requirement of dimer-forming ability for LAG-3 to inhibit T cell activation Takumi Maruhashi, Dawei Chen, Il-mi Okazaki, Daisuke Sugiura, Kenji Shimizu, Taku Okazaki Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo
WS13-08-P	Regulation of TCR repertoire by the RANKL/RANK/OPG system Nanami Mino ^{1,2)} , Ryunosuke Muro ¹⁾ , Takeshi Nitta ¹⁾ , Keishi Fujio ²⁾ , Hiroshi Takayanagi ¹⁾ Pepartment of Immunology, Graduate school of Medicine and Faculty of Medicine, the University of Tokyo, Department of Allergy and Rheumatology, Graduate school of Medicine and Faculty of Medicine, the University of Tokyo
WS13-09-P	Identification of putative druggable sites in TIPE2, a novel immunoregulatory target, using in silico analysis Bradley M. Kearney ^{1,2)} , Hiroyuki Nakashima ¹⁾ , Masahiro Nakashima ¹⁾ , Takeshi Ono ¹⁾ , Azusa Kato ¹⁾ , Hiroyasu Goto ¹⁾ , Kazuma Mori ¹⁾ , Manabu Kinoshita ¹⁾ National Defense Medical College, ² US Army Japan Engineer and Scientist Exchange Program
WS13-10-P	Elucidating the ligand specificity of VISTA, an immuno-inhibitory co-receptor Ryuki Abiru, Takumi Maruhashi, II-mi Okazaki, Kenji Shimizu, Daisuke Sugiura, Taku Okazaki Laboratory of Molecular Immunology, Institute for Quantitative Biosciences, The University of Tokyo
WS13-11-P	Diversity of recognition modes of antigen-induced TCR-like antibodies Kazuki Kishida ¹⁾ , Hisashi Arase ^{1,2)} Research Institute for Microbial Diseases Osaka Univ. Immunochemistry, ²⁾ Immunology Frontier Research Center Osaka Univ. Immunochemistry
WS13-12-P	Immunoregulatory mechanisms mediated by a novel receptor for the immunosuppressive protein HLA-G2 Hiroshi Watanabe, Kimiko Kuroki, Katsumi Maenaka Faculty of Pharmaceutical Sciences, Hokkaido University
WS13-13-P	DNA demethylase Tet expression in thymic epithelial cells affects regulatory T cell function Hiroko Nakatsukasa ¹⁾ , Ryuhei Yamagami ²⁾ , Kenichiro Goda ¹⁾ , Hiroto Kawashima ¹⁾ , Akihiko Yoshimura ²⁾ Laboratory of Microbiology and Immunology, Graduate School of Pharmaceutical Sciences, Chiba University, Department of Microbiology and Immunology, Keio University School of Medicine
WS13-14-P	CD80/CD86-CD28 signal blockade during the mixed lymphocyte reaction augments the alloantigen-specific inhibitory function of natural regulatory T cells Kyoko Yogo ^{1,2)} , Kazuyoshi Takeda ¹⁾ , Koichiro Uchida ¹⁾ , Shohei Hori ³⁾ , Ko Okumura ¹⁾ Center for Immune Therapeutics and Diagnosis, Juntendo Advanced Research Institute for Health Science, Juntendo University, ²⁾ JUNTEN BIO Co., Ltd., ³⁾ Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo

WS13-15-P

Time course of exhausted and senescent T cells in a mouse model of cGVHD after bone marrow transplantation

○ Takahiro Okazaki¹¹, Yoko Ogawa¹¹, Shinri Sato¹¹, Eisuke Shimizu¹¹, Robert Rusch¹¹, Kazuki Asai¹¹, Masatoshi Hirayama¹¹, Shigeto Shimmura¹²², Kazuo Tsubota¹³, Kazuno Negishi¹¹

January 18

WS14 Allergy-2

WS14-01-O/P

Functional role of Signal-transducing adaptor protein-1 for regulation of FceRI-mediated mast cell activation

○ Jun-ichi Kashiwakura¹⁾, Sumihito Togi²⁾, Kenji Oritani³⁾, Tadashi Matsuda⁴⁾

¹⁾Department of Life Science, Faculty of Pharmaceutical Sciences, Hokkaido University of Science, ²⁾Division of Genomic Medicine, Department of Advanced Medicines, Medical Research Institute, Kanazawa Medical University, ³⁾Department of Hematology, International University of Health and Welfare. ⁴⁾Department of Immunology, Graduate School of Pharmaceutical Sciences, Hokkaido University

WS14-02-P

Regulatory roles of mast cells in adipocyte differentiation and maturation

O Shunki Ehara, Haruna Sobue, Atsuya Chiba, Masato Ninagawa, Risa Akita, Asuka Suzuki, Yusuke Nakanishi, Kyoko Takahashi

College of Bioresource Sciences, Nihon University

WS14-03-O/P

Annexin A5 inhibits IgE-mediated mast cells activation via Allergin-1 inhibitory immunoreceptor

Mariana Silva Almeida^{1,3)}, Satoko Tahara-Hanaoka^{1,2)}, Shiro Shibayama⁴⁾, Akira Shibuya^{1,2)}

¹⁾Department of Immunology, Institute of Medicine, University of Tsukuba, ²⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, ³⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, ⁴⁾Research Center of Immunology, Tsukuba Institute, ONO Pharmaceutical Company, Ltd.

WS14-04-P

Co-expressed CD300a and CD300lf, the immune inhibitory receptors, additively suppress IgE-mediated allergic reactions on mast cells

O Hanbin Lee^{1,2)}, Chigusa Nakahashi-Oda^{2,3)}, Akira Shibuya^{2,3,4)}

¹⁾Ph.D. Program in Human Biology, School of Comprehensive Human Sciences, University of Tsukuba, Japan, ²⁾Department of Immunology, Institute of Medicine, University of Tsukuba, Japan, ³⁾R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan, ⁴⁾Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba, Tsukuba, Ibaraki

WS14-05-O/P

The C-type lectin receptor Clec12b suppresses mast cell activation in the skin and regulates house dust mite-induced dermatitis

O Ayana lijima^{1,2)}, Kenshiro Matsuda^{2,3)}, Kazuko Shibuya^{2,4)}, Akira Shibuya^{2,4)}

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

WS14-06-P

Influence of the Th1 Cytokine Environment on CCL5 Production from Langerhans Cells

Katsuhiko Matsui

Dept. Clin. Immunol., Meiji Pharmaceut. Univ.

WS14-07-P

Identification of a functional *DOCK8* gene polymorphism associated with atopic dermatitis

○ Kazufumi Kunimura, Yoshinori Fukui

Division of Immunogenetics, Medical Institute of Bioregulation, Kyushu University

WS14-08-O/P

Classical monocyte-derived macrophages display high efferocytic ability and contribute to the resolution of basophil-dependent skin allergic inflammation

Kensuke Miyake¹⁾, Junya Ito¹⁾, Kazufusa Takahashi¹⁾, Jun Nakabayashi²⁾, Shigeyuki Shichino³⁾, Hajime Karasuyama¹⁾ Inflammation, Infection and Immunity Laboratory, Advanced Research Institute, Tokyo Medical and Dental University (TMDU), ²⁾ College of Liberal Arts and Sciences, Tokyo Medical and Dental University (TMDU), ³⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases. Research Institute of Biomedical Sciences. Tokyo University of Science

¹⁾Department of Ophthalmology, Keio University School of Medicine, ²⁾Fujita Medical Innovation Center Tokyo, ³⁾Tsubota Laboratory, Inc.

WS14-09-O/P	The role of IL-13 on dendritic cells is critical for type 2 immune responses
	○ Yasuyo Harada¹¹, Takanori Sasaki⁴¹, Takeshi Watanabe, Satoshi Ueha³¹, Shuhei Ogawa⁵¹, Masato Kubo¹¹²¹ Tokyo University of Science, Research Institute for Biological Science, Division of Molecular Pathology, ²¹RIKEN Center for Integrative Medical Sciences, Laboratory for Cytokine Regulation, ³¹Tokyo University of Science, Research Institute for Biological Science, Division of Molecular Regulation of Inflammatory and Immune Diseases, ⁴¹Keio University School of Medicine, Department of Internal Medicine, Division of Rheumatology, ⁵¹Tokyo University of Science, Research Institute for Biological Science, Division of Experimental Animal Immunology
WS14-10-P	Oral mucosal allergen exposure prevents development of peanut allergy in mice
	○ Yuya Yoshida ^{1,2)} , Koji lijima ¹⁾ , Mayumi Matsunaga ¹⁾ , Mia Y. Masuda ¹⁾ , Takao Kobayashi ¹⁾ , Hirohito Kita ^{1,3)} ¹¹Division of Allergy, Asthma and Clinical Immunology, and Department of Medicine, Mayo Clinic, Scottsdale, Arizona, United States of America, ²¹Department of Pathological Biochemistry, Faculty of Pharmaceutical Sciences, Setsunan University, Hirakata, Osaka, Japan, ³¹Department of Immunology, Mayo Clinic, Rochester, and Mayo Clinic, Scottsdale, Arizona, United States of America
WS14-11-O/P	An aluminum-containing food additive causes cleavage of IL-18, IL-33 and gasdermin D in intestinal
	epithelial cells under antibiotic treatment
	 Ayako Wakabayashi¹, Atsuko Owaki¹, Ken Iwatsuki², Etsuko Toda³, Yasuhiro Nishiyama⁴, Shoji Matsune⁵, Rimpei Morita¹
	¹⁾ Department of Microbiology and Immunology, Nippon Medical School, ²⁾ Department of Nutritional Science and Food Safety, Faculty of Applied Bioscience, Tokyo University of Agriculture, ³⁾ Department of Analytic Human Pathology, Nippon Medical School, ⁴⁾ Department of Neurological Science, Nippon Medical School, ⁵⁾ Department of Otolaryngology, Nippon Medical School Musashi Kosugi Hospital
WS14-12-O/P	Impaired suppressive function of Tregs promotes continuous bone loss in food-allergic enteropathy model mice
	○ Kohei Soga ^{1,2)} , Tomohiro Hoshino ³⁾ , Kosuke Nishitsuji ^{1,2)} , Michio Tomura ⁴⁾ , Shigeru Kakuta ^{5,6)} , Satoshi Hachimura ^{1,2)} , Haruyo Nakajima-Adachi ^{1,2,7)}
	¹⁾ Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, The University of Tokyo, ²⁾ Research Center for Food Safety, Graduate School of Agricultural and Life Sciences, The University of Tokyo, ³⁾ Division of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Science, Keio University, ⁴⁾ Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, ⁵⁾ Laboratory of Biomedical Science, Graduate School of Agricultural and Life Sciences, The University of Tokyo, ⁶⁾ Collaborative Research Institute for Innovative Microbiology (CRIIM), The University of Tokyo, ⁷⁾ Department of Immunobiology and Biofunctional Research, Graduate School of Agricultural and Life Sciences, The University of Tokyo
WS14-13-P	Anti-allergic and immune checkpoint inhibitory activities of <i>Ganoderma sinense</i> cultivated under various conditions
	○ Hajime Kobori ^{1,2)} , Taro Yasuma ³⁾ , Masaaki Toda ³⁾ , Corina N. D'Alessandro-Gabazza ³⁾ , Esteban C. Gabazza ³⁾ 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
WS14-14-P	Shi-Bi-Lin Decoction reduces allergic rhinitis symptoms by modulating the immunosystem activity via Gut Microbiota
	O Peiting Li, Sze-Man Hon, Chung-Lap Chan, Chun Kwok Wong The Chinese University of Hong Kong
WS14-15-P	Characterization of eosinophils and natural killar cells in nasal polyps and peripheral blood in eosinophilic chronic rhinosinusitis patients
	O Kaori Tsuji, Ami Aoki, Atsushi Onodera, Masahiro Kiuchi, Kota Kokubo, Yuki Morimoto, Tomohisa linuma, Toyoyuki Hanazawa, Toshinori Nakayama, Kiyoshi Hirahara Chiba University
WS14-16-O/P	The USP7-STAT3-granzyme-Par-1 axis regulates allergic inflammation by promoting differentiation of IL-5-producing Th2 cells
	Masahiro Kiuchi, Kota Kokubo, Hiroyuki Yagyu, Masahiro Nemoto, Kaori Tsuji, Takahisa Hishiya, Miki Onoue, Rie Shinmi, Yuri Sonobe, Toshinori Nakayama, Kiyoshi Hirahara Graduate School of Medicine and School of Medicine, Chiba University, Immunology
WS14-17-P	Diverse Characteristics of Pulmonary Neuroendocrine Cells Revealed in Chronic Airway Inflammation Masahiro Nemoto ¹⁾ , Masahiro Kiuchi ¹⁾ , Kaori Tsuji ¹⁾ , Toshinori Nakayama ²⁾ , Kiyoshi Hirahara ¹⁾

¹⁾Department of Immunology, Chiba University, Graduate School of Medicine, ²⁾Chiba University

WS14-18-P

Possible role of CCR5+ cells in lung fibrosis of asthmatic mice

 Hayato Shimora, Yukino Nagatani, Itomi Takamori, Keitaro Nishikawa, Masaya Matsuda, Kazuyuki Kitatani, Takeshi Nabe

Laboratory of Immunopharmacology, Faculty of Pharmaceutical Sciences, Setsunan Univ.

WS14-19-P

Investigation on basic lymphocyte profile in NC/Nga mice

Fuzuki Hayashi, Miyoko Matsushima, Nodoka Shimasaki, Hinata Taniguchi, Hina Kawashima, Sayaka Takagi,
 Nanami Yoshida, Tsutomu Kawabe

Department of Integrated Health Sciences, Nagoya University Graduate School of Medicine, Aichi, Japan

January 18

WS15 Tumor immunity-2; Various immunotherapy

WS15-01-O/P

Development of peptide immunotherapy targeting CAF

○ Keiko Udaka¹⁾, Toshihiro Komatsu¹⁾, Yuki Tanaka²⁾, Kousuke Onoue²⁾, Yoshiko Yamashita²⁾, Kazuhide Onoguchi²⁾, Ryo Tanaka³⁾, Yoichiro Iwase³⁾, Naoki Sakaguchi³⁾

¹⁾Department of Immunology, School of Medicine, Kochi University, ²⁾Al Drug Development Division, NEC Corporation, ³⁾Pharmaceutical Solutions Division, R&D, TERUMO Corporation

WS15-02-O/P

A novel cancer vaccine based on hyaluronic acid nanogel drives a potent antitumor immunity against metastatic- and ICI resistant-tumors with long lasting memory CD8+ T cells

○ Fumiyasu Momose¹⁾, Takashi Nakai²⁾, Kohei Yabuuchi²⁾, Makiko Yamane¹⁾, Tae Hayashi¹⁾, Linan Wang¹⁾, Yoshiyuki Nakagawa²⁾, Shogo Aso²⁾, Toru Katsumata²⁾, Tsuyoshi Shimoboji²⁾, Yoshihiro Miyahara¹⁾

¹⁾Department of Personalized Cancer Immunotherapy, Mie University Graduate School of Medicine, ²⁾New Product Development Office, Functional Additives Division, Asahi Kasei Corporation

WS15-03-O/P

Epitope spreading elicited by a multivalent cellular vaccine against prostate cancer, aAVC-PROS

O Satoru Yamasaki¹⁾, Kanako Shimizu^{1,2)}, Shin-ichiro Fujii^{1,2)}

¹⁾Lab for Immunotherapy, RIKEN IMS, ²⁾RIKEN Program for Drug Discovery and Medical Technology Platforms (DMP)

WS15-04-O/P

CD69 regulates tumor-specific CD8 T cell differentiation in tumor-draining lymph nodes

O Ryo Nasu, Wang Yangsong, Yukihiro Endo, Ichita Hasegawa, Yukiyoshi Mita, Shinichiro Motohashi, Toshinori Nakayama, Motoko Y Kimura

Graduate School of Medicine, Chiba University

WS15-05-O/P

Which subset of dendritic cells is critical to the effect of HSV-1 oncolytic virus therapy?

○ Shumpei Uchida¹⁾, Tsukasa Seya²⁾, Shizuo Akira³⁾, Katsuaki Sato⁴⁾, Tsuneyasu Kaisho⁵⁾, Ryutaro Fukui⁶⁾, Kensuke Miyake⁶⁾, Tomoki Todo⁷⁾, Norimitsu Kadowaki¹⁾

¹⁾Division of Hematology, Rheumatology and Respiratory Medicine, Faculty of Medicine, Kagawa University, ²⁾Nebuta Research Institute for Life Sciences, Aomori University, Aomori, Japan, ³⁾Immunology Frontier Research Center, Osaka University, Osaka, Japan, ⁴⁾Division of Immunology, Faculty of Medicine, University of Miyazaki, Miyazaki, Japan, ⁵⁾Department of Physiological Regulation Mechanisms, Wakayama Medical University, Wakayama, Japan, ⁵⁾Division of Infectious Genetics, Institute of Medical Science, the University of Tokyo, Tokyo, Japan, ⁷⁾Division of Innovative Cancer Therapy, Institute of Medical Science, the University of Tokyo, Japan

WS15-06-O/P

A DLL3-targeting trispecific T cell engager with CD3/CD137 dual specific Fabs shows potent antitumor activity in small cell lung cancer models

O Ryutaro Iwabuchi¹⁾, Hirofumi Mikami¹⁾, Shu Feng²⁾, Sotaro Naoi²⁾, Yumiko Azuma¹⁾, Yoko Kayukawa¹⁾, Toshiaki Tsunenari¹⁾, Junko Shinozuka¹⁾, Masaki Yamazaki¹⁾, Kenji Kashima¹⁾, Mika Kamata-Sakurai¹⁾, Takehisa Kitazawa¹⁾

¹⁾Chugai Pharmaceutical Co., Ltd., ²⁾Chugai Pharmabody Research Pte. Ltd.

WS15-07-O/P

SAIL66, CLDN6-targeting next generation T-cell redirecting antibody, demonstrates a potent antitumor efficacy

O Naoki Kimura, Takayuki Kamikawa, Shinya Ishii, Masaru Muraoka, Kenji Taniguchi, Ryo Uchikawa, Moe Yoshimoto, Sho Akai, Mei Shimada, Mika Kamata-Sakurai, Takehisa Kitazawa, Tomoyuki Igawa Chuqai Pharmaceutical Co.,Ltd

WS15-08-P	HER2/CD3 bispecific antibody enhances antitumor immunity of NKT cells in lung cancer Mariko Takami, Shinichiro Motohashi Chiba University
WS15-09-P	Immune profiling of tongue squamous cell carcinoma and the efficacy of immune checkpoint blockade Ryo Ouchi ^{1,3} , Pissacha Daroonpan ¹⁾ , Yuya Su ^{1,2)} , Hiroyuki Harada ²⁾ , Miyuki Azuma ¹⁾ Tokyo Medical and Dental University(TMDU) Departments of Molecular Immunology, ² Tokyo Medical and Dental University(TMDU) Departments of Oral and Maxillo-facial Surgical Oncology, ³ University of Toyama, Department of Oral and Maxillofacial Surgery
WS15-10-P	Statins improve anti-tumor effects of anti-PD-1 antibody through preventing CD8 ⁺ T cell exhaustion via modulating lipid metabolism (Nyi-Tha-Thu Chaw ¹), Kinya Tsubota ²), Tomonori Yaguchi ³), Aya Misawa ¹), Shigeki Ohta ¹), Yutaka Kawakami ¹) (1)Department of Immunology, School of Medicine, International University of Health and Welfare, Narita, Japan, (2)Department of Ophthalmology, Tokyo Medical University, Tokyo, Japan, (3)Department of Immunology and Genomic Medicine, Kyoto University Graduate School of Medicine, Kyoto, Japan
WS15-11-P	ICOS+CD4 T cells contributes to development of anti-PD-1 antibody-induced lung injury through promoting B cell differentiation Mari Yokoi ^{1,2,3)} , Kosaku Murakami ²⁾ , Tomonori Yaguchi ⁴⁾ , Daiki Hira ³⁾ , Tomoniro Terada ³⁾ , Hirotake Tsukamoto ²⁾ Graduate School of Pharmaceutical Sciences, Kyoto University, Division of Clinical Immunology and Cancer Immunotherapy, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, Department of Clinical Pharmacology and Therapeutics, Kyoto University Hospital, Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University
WS15-12-P	Therapeutic vaccines containing mouse and human PD-L1 peptides induce tumor immunity Wang Long ^{1,2)} , Yi Ding ²⁾ , Yang Cui ²⁾ , Takeshi Tsubata ^{1,2)} Department of Pathology, Nihon University School of Dentistry, Department of Immunology, Medical Research Institute, Tokyo Medical and Dental University
WS15-13-P	Withdrawn
WS15-14-P	Enhancement of whole cell cancer vaccine by needle-free administration method Kunihiko Yamashita ^{1,3)} , Chin-Yang Chang ²⁾ , Jiayu Anna Tai ³⁾ , Yu-Diao Kuan ³⁾ , Tomoyuki Nishikawa ³⁾ Daicel Corporation, Tokyo, Japan, Department of Gene and Stem Cell Regenerative Therapy, Graduate School of Medicine/Faculty of Medicine, Osaka University, Suita, Japan, Department of Device Application for Molecular Therapeutics, Graduate School of Medicine/Faculty of Medicine, Osaka University, Suita, Japan Anti-tumor effect of CCL19-expressing allogeneic mesenchymal stromal cells
WS15-15-P	Yuichi IIDA, Mamoru Harada Department of Immunology, Faculuty of Medicine, Shimane University
WS15-16-P	Antitumor immunity to B16F10 and colon26 tumors in mice induced by electrical discharge plasma irradiation of tumor and normal tissues Ryo Ono ¹⁾ , Kengo Wada ¹⁾ , Ryuichiro Ito ¹⁾ , Hiroki Okada ¹⁾ , Atsushi Komuro ¹⁾ , Hideyuki Yanai ²⁾ Department of Advanced Energy, The University of Tokyo, ²⁾ Department of Inflammology, Research Center for Advanced Science and Technology, The University of Tokyo
WS15-17-P	Anti-IL-34 antibody-inducing peptide vaccines: An emerging Strategy in Tumor Therapy Masafumi Tanji, Haruka Wada, Kenichiro Seino Division of Immunobiology, Institute for Genetic Medicine, Hokkaido University
WS15-18-P	Exosome under the control of SPRED2 promotes M1 macrophage polarization and activate IL6-STAT3 signaling in esophageal cancer cells Tong Gao, Miao Tian, Masahiro Fujisawa, Toshiaki Ohara, Tianyi Wang, Yuze Wang, Hnin Thida Tun, Chunning Li, Teizo Yoshimura, Akihiro Matsukawa

Department of Pathology and Experimental Medicine, Okayama University

WS15-19-P	Crucial role of conventional dendritic cells in the generation of anti-tumor T-cell responses and immunogenic tumor microenvironment to suppress tumor development
	 Moe Tominaga, Tomofumi Uto, Tomohiro Fukaya, Shuya Mitoma, Katsuaki Sato Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki
WS15-20-P	Clec4A4 serves as a negative immune checkpoint regulator expressed on conventional dendritic cells to impair antitumor immunity
	○ Tomofumi Uto, Tomohiro Fukaya, Shuya Mitoma, Moe Tominaga, Katsuaki Sato Division of Immunology, Department of Infectious Diseases, Faculty of Medicine, University of Miyazaki
WS15-21-P	Antigen presentation capacity of tumor endothelial cells under VEGFR-2 blocking therapy Mina Tsukuda ¹⁾ , Toshihiro Komatsu ¹⁾ , Yuki Tanaka ²⁾ , Kousuke Onoue ²⁾ , Yoshiko Yamashita ²⁾ , Kazuhide Onoguchi ²⁾ , Ryo Tanaka ³⁾ , Yoichiro Iwase ³⁾ , Naoki Sakaguchi ³⁾ , Keiko Udaka ¹⁾ Department of Immunology, School of Medicine, Kochi University, ²⁾ Al Drug Development Division, NEC Corporation, ³⁾ Pharmaceutical Solutions Division, R&D, TERUMO Corporation
WS15-22-P	Immune Surveillance of Radiation-Induced Tumors Elicited by Latent Epstein-Barr Virus Oncogenes — Jin Yuqi, Yun Guo, Tomoharu Yasuda Graduate School of Biomedical and Health Sciences, Hiroshima University
WS15-23-P	Near-infrared photoimmunotherapy induced tumor cell death enhances tumor-infiltrating dendritic cell migration via ATP-P2X7 receptor and Gci protein-coupled receptor signaling pathways Taiki Moriya ^{1,2)} , Ryuhei Okada ³⁾ , Aki Furusawa ³⁾ , Daiki Fujimura ³⁾ , Hiroaki Wakiyama ³⁾ , Takuya Kato ³⁾ , Peter L. Choyke ³⁾ , Yutaka Kusumoto ¹⁾ , Hisataka Kobayashi ³⁾ , Michio Tomura ¹⁾ Osaka Ohtani Univ., ² Rakuno Gakuen Univ., ³ National Institutes of Health
WS15-24-P	Antagonists against neurotransmitter receptor NMDAR suppress tumor progression by regulating tumorassociated macrophages — Juming Yan ¹⁾ , Jing Hu ²⁾ , Dongchen Yuan ¹⁾ , Xiaoman Ju ¹⁾ , Renxian Tang ¹⁾ , Kuiyang Zheng ¹⁾ — Jiangsu Key Laboratory of Immunity and Metabolism, Department of Pathogen Biology and Immunology, Xuzhou Medical University, China, 2) Department of Bioinformatics, School of Life Sciences, Xuzhou Medical University, China
WS15-25-P	IN-VIVO GENERATION OF DESIGNER ANTIGEN PRESENTING CELLS FOR TUMOR IMMUNOTHERAPY Toan Van Le, Shota Imai, Makie Ueda, Tomoyoshi Yamano, Rikinari Hanayama Department of Immunology, Kanazawa University
WS15-26-P	Regulation of Hepatocellular Metabolism Functional analysis of host factors Kureha Takara ¹⁾ , Kazuhisa Murai ¹⁾ , Yuna Tamura ¹⁾ , Masao Honda ^{2,1)} Department of Clinical Laboratory Medicine, Kanazawa University Graduate School of Health Medicine, Kanazawa, Japan, ²⁾ Department of Gastroenterology, Kanazawa University Graduate School of Medicine, Kanazawa, Japan
WS15-27-P	In vivo induction of memory-like NK cells following two cycles of STING agonist loaded lipid nanoparticle and CpG-ODN protects against melanoma lung metastasis Alaa Khalifa, Takashi Nakamura, Yusuke Sato, Hideyoshi Harashima Faculty of Pharmaceutical Sciences, Hokkaido University, Japan
WS15-28-P	Melanoma cells that survived intracellular bacterial infection evade immunological elimination Yutaka Horiuchi, Sara Hatazawa, Yukie Ando, Momo Mataki, Takashi Murakami Dept. Microbiol., Fac. Med., Saitama Med. Univ.
WS15-29-P	A red light-responsive photoswitch for deep tissue optogenetics Takahiro Nakajima ^{1,2)} , Yuto Kuwasaki ²⁾ , Shota Yamamoto ²⁾ , Takahiro Otabe ^{1,2)} , Moritoshi Sato ^{2,1)} **IKISTEC, ²⁾ The University of Tokyo

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WS16 Infection immunity 3 WS16-01-O/P Circadian Dysregulation in HaCaT keratinocytes Upon Candida albicans Infection Javshree Low, Kanami Orihara, Susumu Kaiiwara Tokyo Institute of Technology WS16-02-O/P Tannerella forsythia induces inflammasome activation by triggering both NLRP3 and Caspase-4 O Chenwei Hsu, Tokuju Okano, Tosihiko Suzuki Tokyo Medical and Dental Univ. WS16-03-O/P Identification of PILRA and PILRB as novel β-glucan receptors that bind to pathogenic fungus, Aspergillus Yasunobu Mivake, Hiroki Yoshida Saga University, Faculty of Medicine WS16-04-O/P Defining the molecular mechanisms by which histone deacetylase 7 (HDAC7) orchestrates immunometabolic responses in macrophages Rishika Abrol, Kaustav Das Gupta, James E.B. Curson, Syeda Farhana Afroz, Karoline Raven, Divya Ramnath, Matthew J. Sweet Institute for Molecular Bioscience, The University of Queensland, Australia WS16-05-O/P Mycobacterium leprae deactivates a potent PAMP to achieve immune evasion Shigenari Ishizuka^{1,2}, Yuji Miyamoto³, Tomomi Kawakita³, Yumi Maeda³, Masamichi Goto⁴, Manabu Ato³, Masamichi Nagae^{1,2)}, Sho Yamasaki^{1,2,5)} ¹⁾Department of Molecular Immunology, Research Institute for Microbial Diseases (RIMD), Osaka University, ²⁾Laboratory of Molecular Immunology, Immunology Frontier Research Center (IFReC), Osaka University, 3) Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases (NIID), ⁴⁾Department of Pathology, Kagoshima University Graduate School of Medical and Dental Sciences, 5) Center for Infectious Disease Education and Research (CiDER), Osaka University WS16-06-O/P Pseudomonas aeruginosa Hijacks Host Nitric Oxide Metabolic Pathway to Evade Killing by Neutrophils in the Luna O Yoshinari Nakatsuka, Masanori Matsumoto, Naohiro Inohara, Gabriel Núñez University of Michigan WS16-07-O/P Secreted Phospholipase PLA2G5 Acts as a Self-Venom in Sepsis by Mediating Hemolysis ○ Michihiro Takahama^{1,2)}, Nicolas Chevrier²⁾ ¹⁾Graduate School of Pharmaceutical Sciences, Osaka University, ²⁾Pritzker School of Molecular Engineering, the University of Chicago WS16-08-O/P Chronic kidney disease increases bacterial susceptibility in mice due to reduced bactericidal activity of **Kupffer cells** C Kazuma Mori¹⁾, Hiroyuki Nakashima¹⁾, Hiroyasu Goto²⁾, Keiko Tanoue²⁾, Seigo Ito³⁾, Azusa Kato¹⁾, Masahiro Nakashima¹⁾, Bradley M Kearney^{1,4)}, Manabu Kinoshita¹⁾ ¹⁾Department of Immunology and Microbiology, National Defense Medical College, ²⁾Department of Nephrology and Endocrinology, National Defense Medical College, 3Department of Internal Medicine, Self-Defense Force Iruma Hospital, 4US Army Japan Engineer and Scientist Exchange Program A Novel Recombinant Lactococcus lactis Mucosal Vaccine Platform Based on Group A Streptococcus Pili WS16-09-P Catherine Jia-Yun Tsai^{1,2,3,4)}, Risa Takahashi^{1,3)}, Hiroshi Kiyono^{2,4)}, Kohtaro Fujihashi^{2,4,5,6)} ¹⁾University of Auckland, New Zealand, ²⁾Chiba University, ³⁾Maurice Wilkins Centre for Biodiscovery, New Zealand, ⁴⁾Chiba University Synergy Institute for Futuristic Mucosal Vaccine Research and Development (cSIMVa), 5)The Institute of Medical Science, The University of Tokyo, 6)UCSD Center for Mucosal Immunology WS16-10-P AIM2 inflammasome exacerbates Staphylococcus aureus infection ○ Hideki Hara¹⁾, Yasuyuki Matsuda¹⁾, Kei Sakamoto²⁾, Hajime Yamauchi¹⁾, Akihiko Yoshimura³⁾, Gabriel Núñez⁴⁾ ¹⁾Asahikawa Medical University, ²⁾Yamaguchi University, ³⁾Keio University, ⁴⁾University of Michigan

WS16-11-P	Elucidation of pneumonia-inducing mechanism by additional inoculation of Zinc metalloprotease 1-deficient <i>Mycobacterium tuberculosis</i> variant BCG
	Masayuki Umemura ^{1,2,3)} , Giichi Takaesu ^{1,2,3)} , Goro Matsuzaki ^{1,2,3)} TBRC, Univ. Ryukyus, ²⁾ Dept. Host Defense, Grad. Sch. Med., Univ. Ryukyus, ³⁾ AMRC, Faculty Med., Univ. Ryukyus
WS16-12-P	Lactococcus lactis expressing Group A streptococcus pili as a mucosal vaccine against Group A Streptococcal infections Jacelyn Mei San Loh ^{1,2)} , Adrina Hema J-Khemlani ¹⁾ , Devaki Pilapitiya ¹⁾ , Catherine Jia-Yun Tsai ^{1,2)} , Thomas Proft ^{1,2)}
	1)University of Auckland, New Zealand, 2)Maurice Wilkins Centre for Molecular Biodiscovery, New Zealand
WS16-13-P	CD8 ⁺ Regulatory T Cells Induced by Lipopolysaccharide Improve Mouse Endotoxin Shock Nanaka Morita ^{1,2)} , Masato Hoshi ^{2,3)} , Hiroyuki Tezuka ²⁾ , Tatsuya Ando ²⁾ , Sayaka Yoshida ³⁾ , Fumiaki Sato ³⁾ , Hiroyuki Yokoi ²⁾ , Hiroyasu Ito ^{2,3)} , Kuniaki Saito ²⁾ International University of Health and Welfare, ²⁾ Fujita Health University, ³⁾ Fujita Health University Hospital
WS16-14-P	The C-type lectin receptors Dectin-1/Dectin-2 and the cytokine IL-17 are critical for protection against the fungal pathogen <i>Sporothrix brasiliensis</i>
	Fabio Seiti Yamada Yoshikawa ¹⁾ , Sandro Rogerio de Almeida ²⁾ , Shinobu Saijo ¹⁾ 1) Medical Mycology Research Center, Chiba University, Chiba, Japan, ²⁾ Faculty of Pharmaceutica Sciences, University of Sao Paulo, Brazil
WS16-15-P	The verification of a novel tuberculosis vaccine under simian immunodeficiency virus and mycobacterium tuberculosis co-infected monkey model
	Natsuko Yamakawa, Yasuhiro Yasutomi NIBIOHN Tsukuba Primate Research Center
WS16-16-P	Analysis of periodontal disease-induced cognitive impairment behavior in mice
	Sari Kishikawa ^{1,2)} , Jun-ichi Nagao ^{1,2)} , Kenji Toyonaga ^{1,2)} , Emi Kaji ¹⁾ , Masahiro Nakagami ¹⁾ , Aoba Iwanuma ¹⁾ , Sonoko Tasaki ¹⁾ , Kanae Negoro ^{1,2)} , Satoru Iwai ¹⁾ , Yoshihiko Tanaka ^{1,2)} 1)Section of Infection Biology, Department of Functional Bioscience, Division of Biomedical Sciences, Fukuoka Dental College, ²⁾ Oral Medicine
	Research Center., Fukuoka Dental College
WS16-17-P	Staphylococcus aureus reversibly regulates Agr quorum sensing to colonize hosts and cause an outbreak in a hospital
	○ Yuriko Yamazaki ^{1,2)} , Takashi Sugihira ³⁾ , Hiroki Takahashi ⁵⁾ , Akiko Takaya ⁶⁾ , Manabu Fujimoto ^{2,4)} , Yumi Matsuoka-Nakamura ^{1,2,3)}
	¹⁾ Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, ²⁾ Department of Dermatology, Graduate School of Medicine, Osaka University, ³⁾ Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, ⁴⁾ Cutaneous Immunology, Immunology Frontier Research Center, Osaka University, ⁵⁾ Medical Mycology Research Center, ⁶⁾ Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University
WS16-18-P	Mechanisms of NLRC5 nuclear import and retention for MHC class I transactivation
	Baohui Zhu ¹⁾ , Ryota Ouda ¹⁾ , Ning An ¹⁾ , Tsutomu Tanaka ¹⁾ , Koichi S Kobayashi ^{1,2,3)} Department of Immunology, Hokkaido University Graduate School of Medicine, Sapporo 060-8638, Japan, ²⁾ Hokkaido University Institute for Vaccine Research and Development, Sapporo 060-8638, Japan, ³⁾ Department of Microbial Pathogenesis and Immunology, Texas A&M University, Bryan, TX
WS16-19-P	Mucosal immune network of Th17 cells via oral-gut axis exacerbates the development of periodontitis
	Jun-ichi Nagao ^{1,2)} , Masanobu Nakagami ¹⁾ , Sari Kishikawa ^{1,2)} , Kenji Toyonaga ^{1,2)} , Emi Kaji ¹⁾ , Aoba Iwanuma ¹⁾ , Kanae Negoro-Yasumatsu ^{1,2)} , Sonoko Tasaki ¹⁾ , Satoru Iwai ¹⁾ , Yoshihiko Tanaka ^{1,2)} ¹⁾ Section of Infection Biology, Department of Functional Bioscience, Fukuoka Dental Collage, ²⁾ Oral Medicine Research Center, Fukuoka Dental College
WS16-20-P	Salmonella evades from humoral immunity and antibiotics
	Uki Kimura ¹⁾ , Karen Saiki ¹⁾ , Nobuhiro Matsuyama ¹⁾ , Akiko Takaya ²⁾ , Koji Tokoyoda ¹⁾ ¹⁾ Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Tottori, Japan, ²⁾ Department of Natural Products Chemistry, Graduate School of Pharmaceutical Sciences, Chiba University, Chiba, Japan

WS16-21-P	Whole Blood Culture for Interferon Gamma Release Assay to Detect <i>Mycobacterium tuberculosis</i> Complex Infection in Asian Elephants (<i>Elephas maximus</i>)
	Chitsuda Pongma ¹⁾ , Songkiat Songthammanuphap ¹⁾ , Songchan Puthong ¹⁾ , Anumart Buakeaw ¹⁾ , Therdsak Prammananan ²⁾ , Saradee Warit ²⁾ , Wanlaya Tipkantha ³⁾ , Erngsiri Kaewkhunjob ³⁾ , Waleemas Jairak ³⁾ , Piyaporn Kongmakee ³⁾ , Choenkwan Pabutta ³⁾ , Tanapat Palaga ¹⁾ 1)Chulalongkorn University, ²⁾ National Science and Technology Development Agency (NSTDA), ³⁾ Zoological Park Organization of Thailand
WS16-22-P	Functional analysis of signaling adaptor in a murine oral candidiasis model
	Chenji Toyonaga ^{1,2)} , Jun-ichi Nagao ^{1,2)} , Sonoko Tasaki ¹⁾ , Masayuki Umemura ³⁾ , Sari Kishikawa ^{1,2)} , Emi Kaji ¹⁾ , Aoba Iwanuma ¹⁾ , Masanobu Nakagami ¹⁾ , Kanae Negoro-Yasumatsu ^{1,2)} , Satoru Iwai ¹⁾ , Yoshihiko Tanaka ^{1,2)} Defense, ³⁾ Molecular Microbiology, 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
WS16-23-P	Caspase-11-mediated inflammasome activation exacerbates Acinetobacter infection
	Yasuyuki Matsuda, Hajime Yamauchi, Hideki Hara Asahikawa Medical Univ.
WS16-24-P	Mechanism of inflammasome activation through Lyn-Syk signalling in <i>L.monocytogenes</i> infection
	O Hajime Yamauchi, Yasuyuki Matsuda, Hideki Hara Dept. Microbiol. Immunochem., Asahikawa Med. Univ.
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WS17 T cell b	piology in diseases and environments
WS17-01-O/P	Dysfunction of proteasomes in T cells causes immunodeficiency
	 Erkhembayar Shinebaatar, Junko Morimoto, Hiroyuki Kondo, Koji Yasutomo Tokushima university
WS17-02-P	Reactive persulfide controls intestinal inflammation by suppressing CD4 ⁺ T cell proliferation
	 Shunichi Tayama¹⁾, Yuya Kitamura¹⁾, Kyoga Hiraide¹⁾, Hibiki Suzuki¹⁾, Jing Li¹⁾, Ziying Yang¹⁾, Kosuke Sato¹⁾, Akihisa Kawajiri¹⁾, Yuko Okuyama¹⁾, Takeshi Kawabe¹⁾, Takaaki Akaike²⁾, Naoto Ishii¹⁾ ¹⁾Tohoku University Graduate School of Medicine, Department of Microbiology and Immunology, ²⁾Tohoku University Graduate School of Medicine, Department of Environmental and Molecular Toxicology
WS17-03-P	Metabolic Impairments in Peripheral Blood Mononuclear Cells (PBMCs) after BNT162b2 Vaccination in
W317-03-I	Liver-Transplantation (LT) Adolescents
	 Supranee Buranapraditkun^{1,2,3)}, Varattaya Saengchaisukhonkit²⁾, Siriporn Khunsri ²⁾, Pattarawat Thantiworasit⁵⁾, Arkom Chaiwongkot⁶⁾, Nakarin Kitkumthorn⁴⁾, Palittiya Sintusek²⁾
	¹⁾ Division of Allergy and Clinical Immunology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, Bangkok 10330, Thailand, ²⁾ Thai Pediatric Gastroenterology, Hepatology and Immunology (TPGHAI) Research Unit, Faculty of Medicine, Chulalongkon University, Bangkok 10330, Thailand, ³⁾ Center of Excellence in Vaccine Research and Development (Chula Vaccine Research Center-Chula VRC), Faculty of Medicine, Chulalongkorn University, Bangkok 10330, Thailand, ⁴⁾ Department of Oral Biology, Faculty of Dentistry, Mahidol University, Bangkok 10400, Thailand, ⁵⁾ King Chulalongkorn Memorial Hospital, Thai Red Cross Society, Bangkok 10330, Thailand, ⁶⁾ Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok 10330, Thailand
WS17-04-P	Effects of Intravenous Anesthesia on Adaptive Immunity
	○ Susumu Hiraoka ^{2,1)} , Hiroki Satooka ¹⁾ , Takako Hirata ¹⁾
	¹⁾ Department of Fundamental Biosciences, Shiga University of Medical Science, ²⁾ Department of Anesthesiology, Shiga University of Medical Science
WS17-05-O/P	Neo-self antigens are the primary target of autoreactive T cells in lupus patients

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O Shunsuke Mori¹⁾, Hisashi Arase^{1,2)}

WS17-06-P	miR-147-3p in CD4 T cells controls the pathogenesis of autoimmune diseases
	O Norifumi lijima ¹⁾ , Tomoya Hayashi ^{1,3)} , Yuxiang Rui ¹⁾ , Yuta Ohira ⁴⁾ , Yoichi Miyamoto ¹⁾ , Masaaki Niino ²⁾ , Osamu Suzuki ¹⁾ , Masahiro Oka ¹⁾ , Ken J Ishii ^{1,3)}
	¹⁾ National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾ National Hospital Organization Hokkaido Medical Center, ³⁾ The Institute of Medical Science, The University of Tokyo, ⁴⁾ Zeria Pharmaceutical Co, Ltd
WS17-07-P	Anti-inflammatory effects of <i>Bacillus coagulans</i> on animal models of acute and chronic inflammation through immune regulation
	Ming-Shiou Jan ^{1,2)} , Yu-Ching Yang ¹⁾ , Li-Jeng Chen ¹⁾ , Chiou-Feng Lin ³⁾ , Szu-Wei Huang ⁴⁾ ¹⁾ Institute of Medicine, Chung Shan Medical University, Taichung, Taiwan, ²⁾ Department of Health Industry Technology Management, Chung Shan Medical University, Taichung, Taiwan, ³⁾ Department of Microbiology and Immunology, Taipei Medical University, Taipei, Taiwan, ⁴⁾ Department of Veterinary Medicine, National Chiayi University, Chiatyi, Taiwan
WS17-08-O/P	Thioredoxin-interacting protein is essential for memory T cell formation via the regulation of the redox
	metabolism Nata Kalushall Kisaabi Himbaral Maaabiya Kisabill Kaayi Tayiil Wari Canabal Dia Chinasil Takabiaa Himbiral
	○ Kota Kokubo¹¹, Kiyoshi Hirahara¹¹, Masahiro Kiuchi¹¹, Kaori Tsuji¹¹, Yuri Sonobe¹¹, Rie Shinmi¹¹, Takahisa Hishiya¹¹, Chiaki Iwamura¹¹, Atsushi Onodera²¹, Toshinori Nakayama¹³)
	¹⁾ Department of Immunology, Graduate School of Medicine, Chiba University, ²⁾ Institute for Advanced Academic Research, Chiba University, ³⁾ Core Research for Evolutionary Science and Technology, Japan Agency for Medical Researchand Development
WS17-09-P	A novel subpopulation of fibroblasts involved in the formation of induciblebronchus-associated lymphoid tissue (iBALT)
	○ Takahisa Hishiya ¹⁾ , Masahiro Kiuchi ¹⁾ , Toshinori Nakayama ²⁾ , Kiyoshi Hirahara ¹⁾ ¹¹The department of Immunology,Garduate school of medicine, Chiba University, Japan, ²¹Chiba University
WS17-10-P	Inflamed tissue-derived unsaturated fatty acids induce memory-type pathogenic Th2 cells via the PPAR γ -ST2 axis
	○ Hiroyuki Yagyu ^{1,2)} , Masahiro Kiuchi ¹⁾ , Kota Kokubo ¹⁾ , Atsushi Sasaki ¹⁾ , Takeshi Kaneko ²⁾ , Toshinori Nakayama ³⁾ ,
	Kiyoshi Hirahara ¹⁾ ¹⁾ Department of Immunology, Graduate School of Medicine, Chiba University, ²⁾ Department of Pulmonology, Graduate School of Medicine, Yokohama City University, ³⁾ Chiba University
WS17-11-P	Memory T helper cell differentiation regulated by a type 1 conventional dendritic cell subpopulation
	Color Ohki ¹⁾ , Yoshina Matsushima ¹⁾ , Shintaro Hojyo ²⁾ , Tsuneyasu Kaisho ³⁾ , Koji Tokoyoda ¹⁾
	¹⁾ Division of Immunology, School of Life Science, Faculty of Medicine, Tottori University, Yonago, Japan, ²⁾ Department of Molecular Pathogenesis, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan, ³⁾ Department of Physiological Regulation Mechanisms, School of Medicine, Wakayama Medical University, Wakayama, Japan
WS17-12-P	Production of proinflammatory cytokines by tissue resident memory T cells is regulated by the integrated
	stress response pathway
	Nariaki Asada, Pauline Ginsberg, Ulf Panzer The Medical Center Hamburg-Eppendorf (UKE)
WS17-13-P	Macrophages function as survival niches for 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, Japan
WS17-14-P	Critical roles of IFN-I- and MHC-II-associated microglia on the development and regulation of Eomes- expressing helper T cells under neurodegeneration
	Tzu-wen Yeh ¹⁾ , Chenyang Zhang ¹⁾ , Ben Raveney ¹⁾ , Fumio Takahashi ¹⁾ , Marco Prinz ²⁾ , Takashi Yamamura ¹⁾ ,
	Shinji Oki ¹⁾
	¹⁾ National Center of Neurology and Psychiatry, ²⁾ Institute of Neuropathology, University of Freiburg, Freiburg, Germany

WS17-15-O/P	Age-associated cytotoxic CD4⁺ T cells in patients with autoimmune diseases
	○ Hideyuki Takahashi¹¹, Manaka Goto¹¹, Ryochi Yoshida¹¹, Takahiro Itamiya¹.²², Masahiro Nakano³.⁴, Meiko Maeda⁵¹, Akatsuki Kubota⁵¹, Tatsushi Toda⁵¹, Kazuyoshi Ishigaki³¹, Mineto Ota¹¹, Tomohisa Okamura¹.²², Keishi Fujio¹¹ ¹¹Department of Allergy and Rheumatology, Graduate School of Medicine, The University of Tokyo, ²¹Department of Functional Genomics and Immunological Diseases, Graduate School of Medicine, The University of Tokyo, ³¹ Laboratory for Human Immunogenetics, RIKEN Center for Integrative Medical Sciences, ⁴Laboratory for Autoimmune Diseases, RIKEN Center for Integrative Medical Sciences, ⁵¹Department of Neurology Graduate School of Medicine, The University of Tokyo
WS17-16-P	Idiopathic Multi-centric Castleman Disease (iMCD) has been known as an abnormal immunoregulatory disorder with infiltration of CXCL-13-producing Tph cells in the affected lymph nodes Kazuyuki Yoshizaki SANKEN, Osaka University
WS17-17-P	Understand how cDC1-mediated support guides TCF1 populations
	 Stefania Vilbois^{1,2)}, Alexandre Bénéchet³⁾, Francesca Alfei⁴⁾, Tzu-Hsuan Chang^{1,2)}, Pei-Chun Hsueh^{1,2)}, Werner Held¹⁾, Ping-Chih Ho^{1,2)} ¹⁾Department of Oncology, University of Lausanne, Epalinges, Switzerland, ²⁾Ludwig Institute for Cancer Research, University of Lausanne, Epalinges, Switzerland, ³⁾In Vivo Imaging Facility (IVIF), Department of Research and Training, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland, ⁴⁾Amal Therapeutics, Av. de la Roseraie 64, Genève, Switzerland
WS17-18-P	Themis regulates CD8-dependent contact hyper sensitivity
	Masayuki Kitajima, Toshiyuki Okada, Harumi Suzuki Dept. of Immunology and Pathology, Research Institute National Center for Global Health and Medicine
WS17-19-P	Clonal replacement of memory CD8 ⁺ T cell upon repetitive antigen stimulation Yamato Tanabe, Makoto Kurachi Department of Molecular Genetics, Kanazawa University
WS17-20-P	Analysis of Immune Cells in Amyotrophic Lateral Sclerosis Yoshihiro Harada, Mio Kawazoe, Ako Matsui, Minako Ito Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
W517-21-O/P	An antigen-specific therapeutic strategy using stabilized iTreg for pemphigus Miho Mukai ¹⁾ , Hayato Takahashi ¹⁾ , Norihisa Mikami ²⁾ , Shimon Sakaguchi ²⁾ , Masayuki Amagai ¹⁾ Dermatology, Keio University School of Medicine, Tokyo, ²⁾ Experimental Immunology, Immunology Frontier Research Center, Osaka University Osaka
WS17-22-O/P	VeDTR mice employing an intersectional genetic method specifically delineate Th1-type Treg cells and their roles in tumor immunity Masaaki Okamoto ¹⁾ , Masahiro Yamamoto ^{1,2,3)}
	¹⁾ Department of Immunoparasitology, Research Institute for Microbial Diseases, ²⁾ Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, ³⁾ Department of Immunoparasitology, Center for Infectious Disease Education and Research
WS17-23-O/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
WS17-24-P	Altered number of CD8 positive regulatory T cells (CD8*Treg) in peripheral blood and therapeutic potential of the induction of CD8*Treg differentiation by CDK8/19 inhibitor in patients with primary Sjögren's syndrome (pSS) Hirofumi Toko, Hiroto Tsuboi, Hiroyuki Takahashi, Fumika Honda, Saori Abe, Ayako Oyama, Haruka Miki,
	Hiromitsu Asashima, Yuya Kondo, Takayuki Sumida, Isao Matsumoto Department of Rheumatology, Institute of Medicine, University of Tsukuba
WS17-25-P	Functional differences between brain and spinal cord Tregs and tissue repair
	○ Mahiro Watanahe Ako Matsui Mio Kawazoe Yoshihiro Harada Minako Ito

Kyushu University Medical Institute of Bioregulation Division of Allergy and Immunology

WS17-26-O/P	Naïve-like Follicular Tregs (nTfr) in human blood are primed for differentiation into mature Tfr and disrupted during severe infections Janyerkye Tulyeu¹¹, Jonas Noerskov Soendergaard¹¹, David Priest²², Yuki Togami³¹, Takeshi Ebihara³¹, Hisatake Matsumoto³¹, Hiroshi Ogura³¹, Shimon Sakaguchi⁴,5¹, James Badger Wing¹²²¹ ¹¹Human Single Cell Immunology Team, CiDER, Osaka University, ²²Laboratory of Human Single Cell Immunology, IFReC, Osaka University, ³¹Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, ⁴Laboratory of Experimental Immunology IFReC, Osaka University, ⁵¹Department of Experimental Pathology, Institute for Frontier Medical Sciences, Kyoto University
WS17-27-P	Exploring the role of $\gamma\delta$ T cells in the pathogenesis of Autism Spectrum Disorder
	 Natsumi Awata, Ako Matsui, Mahiro Watanabe, Ayame Nagafuchi, Yoshihiro Harada, Mio Kawazoe, Minako Ito Medical Institute of Bioregulation, Kyushu University
WS17-28-P	$\gamma\delta$ T cells induce the maturation of type I dendritic cells which drives Th1 differentiation of antigen-specific CD4 $^{+}$ T cells in <i>Plasmodium chabaudi</i> infection
	○ Yarob Ibraheem ¹⁾ , Ganchimeg Bayarsaikhan ¹⁾ , Maria Lourdes Macalinao ²⁾ , Kazumi Kimura ^{1,3)} , Katsuyuki Yui ⁴⁾ , Shin-Ichi Inoue ¹⁾
	¹ Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University, ² School of Tropical Medicine and Global Health, Nagasaki University, ³ Biomedical Research Support Center, Nagasaki University School of Medical Sciences, ⁴ Institute of Tropical Medicine, Nagasaki University
January 18	
WS18 Dendrit	ic cells & Macrophages: development, function and regulation of immune response ease
WS18-01-O/P	Functional analysis of transcription factors PU.1 and SpiB in the determination of dendritic cell fate Naoto Ito¹¹, Mayumi Hirakawa²¹, Natsuki Minamikawa¹¹, Mayuka Katagiri¹¹, Kazuki Nagata¹¹, Tomokatsu Ikawa²¹, Chiharu Nishiyama¹¹ Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²¹Research Institute for Biomedical Sciences, Tokyo University of Science
WS18-02-O/P	Direct reprogramming of fibroblasts into functional dendritic cells by defined factors
	 Yutaro Kumagai Department of Life Science and Biotechnology, National Institute of Advanced Industrial Science and Technology
WS18-03-O/P	Analysis of transcriptomes of rat dendritic cell subsets and newly discovered CD103 ⁻ DC-like cells
	 Yasushi Sawanobori, Hisashi Ueta, Yusuke Kitazawa, Nobuko Tokuda Anatomy, Dokkyo Medical University
WS18-04-O/P	Sequential Notch2 and retinoic acid signals license IL-23 expression by EpCAM+ DCIR2+ CD103- cDC2 in gut-associated lymphoid tissues
	O Daiya Ohara ¹⁾ , Yusuke Takeuchi ¹⁾ , Hitomi Watanabe ¹⁾ , Yoonha Lee ¹⁾ , Hiroki Mukoyama ¹⁾ , Toshiaki Ohteki ²⁾ , Gen Kondoh ¹⁾ , Keiji Hirota ¹⁾ Institute for Life and Medical Sciences, Kyoto University, Dedical Research Institute Tokyo Medical and Dental University
WS18-05-O/P	FBXO11 constitutes a major negative regulator of MHC class II
	○ Yusuke Kasuga ¹⁾ , Ryota Ouda ¹⁾ , Masashi Watanabe ²⁾ , Xin Sun ¹⁾ , Miki Kimura ¹⁾ , Shigetsugu Hatakeyama ²⁾ , Koichi Kobayashi ^{1,3)} Department of Immunology, Hokkaido University Graduate School of Medicine, ²⁾ Department of Medical Chemistry, Hokkaido University Graduate School of Medicine, ³⁾ Hokkaido University Institute for Vaccine Research and Development
WS18-06-O/P	NR4A3 deficiency deteriorates psoriasis by amplifying TLR7-mediated activation of dendritic cells
	O Mayuka Katagiri ¹⁾ , Naoto Ito ¹⁾ , Natsuki Minamikawa ¹⁾ , Kazuki Nagata ¹⁾ , Akihiko Yoshimura ²⁾ , Chiharu Nishiyama ¹⁾ Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²⁾ Department of Microbiology and Immunology, Keio University School of Medicine

WS18-07-O/P	Kaempferol exhibits an anti-inflammatory effect through AhR-mediated upregulation of RALDH2 in dendritic cells
	O Miki Takahashi, Kazuki Nagata, Yumi Watanuki, Masaki Yamaguchi, Takuya Yashiro, Sakura Noguchi, Chiharu Nishiyama
	Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science
WS18-08-P	Lipid oxidation and dendritic cell maturation using a singlet oxygen-generating cell culture dish
	 Toru Yoshitomi, Van Thi Hong Doan, Naoki Kawazoe, Guoping Chen National Institute for Materials Science
WS18-09-P	Phenotypic plasticity in suppressive function of dendritic cells mediated by Treg cells
	○ Yoshihiro Oya ^{1,2,4)} , Ryutato Matsumura ²⁾ , Hiroshi Nakajima ³⁾ , Ethan M Shevach ⁴⁾ ¹⁾ Laboratory of Autoimmune diseases, National Hospital Organization 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
WS18-10-P	Nasal double DNA adjuvant system induces CD11b-positive dendritic cells and regulatory T cells in <i>ApoE</i>
	KO mice ○ Hideki Yoshimatsu ¹⁾ , Kosuke Kataoka ^{1,2)} , Tatsuro Miyake ¹⁾ , Kohtaro Fujihashi ^{3,4,5)}
	¹⁾ Department of Preventive and Community Dentistry, Osaka Dental University, ²⁾ Department of Oral Health Science and Social Welfare, Graduate School of Biomedical Sciences, Tokushima University, ³⁾ Department of Human Mucosal Vaccinology, Chiba University Hospital, Research Institute of Disaster Medicine, Chiba University, ⁴⁾ Division of Mucosal Vaccines, International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo, ⁵⁾ Department of Pediatric Dentistry, School of Dentistry, The University of Alabama at Birmingham
WS18-11-P	Transport of skin-specific self-antigen by XCR1-positive dermal dendritic cells
	Miya Yoshino, Kokoro Ohki, Koji Tokoyoda Division of Immunology, Department of Molecular and Cellular Biology, School of Life Science, Faculty of Medicine, Tottori University
WS18-12-P	The Impact of Chitosan as a Vaccine Adjuvant
	© Eri Nagai ¹⁾ , Takumi Kawasaki ^{1,2)} , Daisuke Ori ¹⁾ , Taro Kawai ¹⁾ 1) Laboratory of Molecular Immunobiology, Division of Biological Science, Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST), Department of Immune Dynamics in Viral Infections, National Research Center for the Control and Prevention of Infectious Diseases, Nagasaki University
WS18-13-P	The unique fluctuation on immune cell populations induced by CB2 receptor under systemic inflammation
	Haruka Hosoki ¹⁾ , Chihiro Nozaki ²⁾ , Toru Asahi ^{1,3)} Graduate School of Advanced Science and Engineering, Waseda University, ²⁾ Global Center of Science and Engineering, Waseda University, ³⁾ Research Organization for Nano & Life Innovation, Waseda University
WS18-14-O/P	Role of CCR2-dependent MHCII ^{high} interstitial macrophages in ILC2 regulation during asthma
	Naoto Fujioka ^{1,2)} , Tetsuro Kobayashi ¹⁾ , Kazuyo Moro ^{1,2,3)} Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾ Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Osaka University Graduate School of Medicine, ³⁾ Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center
WS18-15-P	Induction of antigen specific resident memory CD8 ⁺ T cells by Alveolar macrophages
	Takumi Kawasaki ¹⁾ , Daisuke Dori ²⁾ , Taro Kawai ²⁾ National Research Center for the Control and Preventation of Infectious Diseases Nagasaki University, ²⁾ Nara Institute of Science and Technology (NAIST)
WS18-16-P	A periportal Kupffer cell subset prevents against commensal bacteria-driven liver inflammation
	Yu Miyamoto, Junichi Kikuta, Masaru Ishii Department of Immunology and Cell Biology, Osaka University Graduate School of Medicine
WS18-17-P	Periportal Kupffer cells physically retain lymphocytes for host defense against commensal invasion in the liver
	Yuta Suzuki ¹⁾ , Yu Miyamoto ²⁾ , Masaru Ishii ^{1,2)} ¹⁾ Department of Immunology and Cell Biology, Osaka University Graduate school of Frontier Bioscience, ²⁾ Department of Immunology and Cell Biology, Osaka University Graduate school of Medicine

WS18-18-P

Novel phenotypical and functional sub-classification of liver macrophages highlights changes in population dynamics in experimental mouse models

○ Hiroyuki Nakashima¹¹, Bradley Michael Kearney¹¹, Azusa Kato¹¹, Hiromi Miyazaki²², Seigo Ito³³, Masahiro Nakashima¹¹, Manabu Kinoshita¹¹

¹⁾Immunology and Microbiology, National Defense Medical College, ²⁾Division of Biomedical Engineering, National Defense Medical College Research Institute, ³⁾Department of Internal Medicine, Self-Defense Force Iruma Hospital

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WS19 Mucosal-skin immunity 1

WS19-01-O/P

Inducible loss of claudin-1 in keratinocytes leads to the induction of itch transmitted by multiple types of sensory nerves

O Susumu Toshima^{1,2)}, Sonoko Takahashi¹⁾, Akiharu Kubo^{2,3)}, Masayuki Amagai^{2,4)}, Takaharu Okada¹⁾

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

WS19-02-P

Concomitant Nonalcoholic Steatohepatitis Worsens Psoriasis Associated with Decreased Adiponectin Expression in a Mouse Model

O Daiki Takezaki^{1,2)}, Shin Morizane¹⁾, Kenta Ikeda³⁾, Masanori Iseki²⁾, Yuma Sakamoto²⁾, Yoshio Kawakami¹⁾, Taishi Hashiguchi⁴⁾, Yuka Shirakata⁴⁾, Sohji Nishina^{4,5)}, Tomoyuki Mukai²⁾

¹⁾Department of Dermatology, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, ²⁾Department of Immunology and Molecular Genetics, Kawasaki Medical School, ³⁾Department of Dermatology, National Hospital Organization Iwakuni Clinical Center, ⁴⁾SMC Laboratories, Inc., ⁵⁾Department of Gastroenterology and Hepatology, Kawasaki Medical School

WS19-03-O/P

Constipation enhances gut-skin axis imbalance and worsens acne in the novel constipation-acne mouse model

○ Masakazu Tamai¹¹, Takashi Sugihira¹.²), Yuriko Yamazaki¹.³), Seitaro Nakagawa¹.²), Manabu Fujimoto¹.⁴), Yumi Matsuoka-Nakamura¹.².³)

¹⁾Department of Dermatology, Graduate School of Medicine, Osaka University, ²⁾Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, ³⁾Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University, ⁴⁾Cutaneous Immunology, Immunology Frontier Research Center, Osaka University

WS19-04-P

Opsin molecule: A potential communicator between the circadian rhythm and skin-epithelial barrier (immunity) upon blue light exposure

O Agnia Vibriani, Susumu Kajiwara, Kanami Orihara

Human centered science and biomedical engineering. Tokyo Institute of Technology

WS19-05-O/P

Skin-resident ILC1s coordinate epithelial stress surveillance

○ Tetsuro Kobayashi¹⁾, Menglu Li²⁾, Daisuke Asanuma³⁾, Shigeyuki Namiki³⁾, Kenzo Hirose³⁾, Katsumasa Fujita²⁾, Kazuyo Moro^{1,4,5)}

¹⁾Laboratory for Innate Immune Systems, RIKEN IMS, ²⁾Department of Applied Physics, Graduate School of Engineering, Osaka University, ³⁾Department of Pharmacology, Graduate School of Medicine, The University of Tokyo, ⁴⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ⁵⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC)

WS19-06-P

Topical application of Cha-koji, the green tea leaves fermented with *Aspergillus lunchuensis ver kawachii kitahara*, on the skin promotes acute cutaneous wound healing in mice

Yasuhiro Katahira, Aruma Watanabe, Satomi Miyakawa, Hideaki Hasegawa, Izuru Mizoguchi, Takayuki Yoshimoto Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University

WS19-07-O/P

Differentiation and function of iBALT M cells induced by influenza infection

Shingo Kawai¹⁾, Shunsuke Kimura¹⁾, Takahiro Yamada^{1,2)}, Yutaka Nakamura^{1,3)}, Shinichiro Sawa⁴⁾, Koji Hase¹⁾

¹⁾Division of Biochemistry, Faculty of Pharmacy, Keio University, ²⁾Department of Immunology, Yale School of Medicine, ³⁾Department of Microbiology and Immunology, School of Pharmaceutical Sciences, Wakayama Medical University, ⁴⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Medical Institute of Bioregulation, Kyushu University

WS19-08-P	The molecular route of conjunctival goblet cell associated antigen passage
	Yasuharu Kume ^{1,2,3)} , Tomoaki Ando ¹⁾ , Meiko Kimura ^{1,2,3)} , Saaya Fukase ^{1,2,3)} , Moe Matsuzawa ^{1,2,3)} , Kumi Izawa ¹⁾ , Ayako Kaitani ¹⁾ , Nobuhiro Nakano ¹⁾ , Ko Okumura ¹⁾ , Shintaro Nakao ³⁾ , Nobuyuki Ebihara ^{2,3)} , Jiro Kitaura ¹⁾ 1)Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾ Department of Ophthalmology, Juntendo University Urayasu Hospital, ³⁾ Department of Ophthalmology, Juntendo University Graduate School of Medicine
WS19-09-P	IL-22 regulates salivary β -defensin 3 production after lactic acid bacteria administration
	Ryoki Kobayashi, Tomomi Takizawa-Hashizume, Hidenobu Senpuku Department of Microbiology and Immunology, School of Dentistry at Matsudo, Nihon University
WS19-10-P	Impact of PET-derived microplastics on gut immune microenvironments
	Akihito Harusato ¹⁾ , Wooseok Seo ²⁾ , Yoshitaka Nakanishi ³⁾ , Hirohito Abo ⁴⁾ , Hiroyoshi Nishikawa ²⁾ , Yoshito Itoh ¹⁾ ¹⁾ Kyoto Prefectural University of Medicine, ²⁾ Nagoya University, ³⁾ Kumamoto University, ⁴⁾ Chiba University
WS19-11-P	The innate immune receptor RP105 induces metabolic syndrome by intestinal barrier dysfunction and alteration of gut microbial composition
	O Koudai Kani ¹⁾ , Yukihiro Furusawa ¹⁾ , Koichi Tsuneyama ²⁾ , Yoshinori Nagai ¹⁾ Department of Pharmaceutical Engineering, Faculty of Engineering, Toyama Prefectural University, ²⁾ Department of Pathology and Laboratory Medicine, Tokushima University Graduate School of Bio-medical Sciences
WS19-12-P	Loss of AID expression under inflammatory condition alters the <i>Nid1</i> and <i>Fbln2</i> induction and exacerbates intestinal injury
	○ Toshiyuki Okada ¹⁾ , Takayuki Sadanaga ^{1,2)} , Tomoi Noda ¹⁾ , Risako Onitsuka ¹⁾ , Atsushi Mizoguchi ¹⁾ , Emiko Mizoguchi ^{1,2)} , Shigeaki Saitoh ³⁾
	¹⁾ Department of Immunology, Kurume university, school of medicine, ²⁾ Department of Molecular Microbiology and Immunology, Brown University Alpert Medical School, ³⁾ Department of Cell Biology, Institute of Life Science, Kurume University
WS19-13-P	Histone modification enzyme Setdb2 contributes to the pathogenesis of ulcerative colitis
	 Yuriko Daijo, Masahiro Kitabatake, Noriko Ouji-Sageshima, Toshihiro Ito Department of Immunology, Nara Medical University
WS19-14-O/P	Decoding Interactions between Environmental Small Molecules and Host GPCRs/Olfactory Receptors in the Gut
	Motohiko Kadoki ^{1,2,3)} , Daniel B Graham ^{1,2,3)} , Ramnik J Xavier ^{1,2,3)} Massachusetts General Hospital, ²⁾ Broad Institute, ³⁾ Harvard Medical School
WS19-15-O/P	GPR31 signaling enhances immune responses in Peyer's patches by inducing dendrite protrusion of CX3CR1 ⁺ phagocytes to M cells
	 Katsuhiro Nakanishi, Takayuki Ajiro, Yuki Tsukamoto, Kaito Yukishima, Eiji Umemoto Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka
WS19-16-O/P	The pyruvate-GPR31 axis promotes transepithelial dendrite formation in human intestinal cDC1
	Eri Oguro-Igashira ^{1,2)} , Mari Murakami ¹⁾ , Atsushi Kumanogoh ²⁾ , Kiyoshi Takeda ¹⁾ Laboratory of Immune Regulation, Graduate School of Medicine, Osaka University, Japan, ²⁾ Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University, Japan
WS19-17-O/P	Unveiling the crucial role of tuft cells in the amelioration of ulcerative colitis through appendectomy
	Shunya Hatai ¹⁾ , Yasutaka Motomura ^{1,2,3)} , Koji Hosomi ⁴⁾ , Kiyoshi Takeda ⁵⁾ , Jun Kunisawa ⁴⁾ , Kazuyo Moro ^{1,2,3,6)} ¹⁾ Laboratory for Innate Immune Systems, Department of Immunology and Microbiology, Graduate School of Medicine, Osaka University, ²⁾ Laboratory for Innate Immune Systems, RIKEN Center for Integrative Medical Sciences (IMS), ³⁾ Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center, ⁴⁾ Laboratory of Vaccine Materials, National Institutes of Biomedical Innovation, Health and Nutrition, ⁵⁾ Laboratory of Immune Regulation, Department of Microbiology, and Immunology, Graduate School of Medicine, Osaka University, ⁶⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Osaka University Graduate School of Frontier Biosciences
WS19-18-P	Selective Paneth cell granule secretion in response to pathogenic and commensal bacteria in enteric
	mucosal immunity Yuki Yokoi ^{1,2)} , Shuya Ohira ¹⁾ , Haruto Matsuoka ²⁾ , Shota Takemi ¹⁾ , Tokiyoshi Ayabe ¹⁾ , Kiminori Nakamura ^{1,2)} Faculty of Advanced Life Science, Hokkaido University, ² Graduate School of Life Science, Hokkaido University

WS19-19-P	Cholesterol sulfate limits neutrophil recruitment and gut inflammation during mucosal injury
	 Kenji Morino, Kazufumi Kunimura, Yoshinori Fukui Division of Immunogenetics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan
WS19-20-P	Analysis of GABAergic signaling in intestinal epithelial cells
	Mion Ikegami ¹⁾ , Gaku Harata ²⁾ , Kazutoyo Yoda ²⁾ , Kenji Miyazawa ²⁾ , Yusuke Nakanishi ¹⁾ , Kyoko Takahashi ¹⁾ ¹⁾ Graduate School of Bioresource Sciences, Nihon University, , ²⁾ Technical Research Laboratory, Takanashi Milk Products Co., Ltd
WS19-21-P	The deficiency of transcription factor NR4A3 ameliorates inflammatory bowel disease
	Natsuki Minamikawa ¹⁾ , Naoto Ito ¹⁾ , Mayuka Katagiri ¹⁾ , Kazuki Nagata ¹⁾ , Akihiko Yoshimura ²⁾ , Chiharu Nishiyama ¹⁾ Department of Biological Science and Technology, Faculty of Advanced Engineering, Tokyo University of Science, ²⁾ Department of Microbiology and Immunology, Keio University School of Medicine
WS19-22-P	Examining the mechanism by which γδ T cells secret API5
	○ Yu Matsuzawa ^{1,2)} , Ken Cadwell ^{2,3)}
	¹⁾ Clinical and Physiological Laboratory Science, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, ²⁾ Department of Microbiology, New York University Grossman School of Medicine, ³⁾ Division of Gastroenterology and Hepatology, Department of Medicine, University of Pennsylvania Perelman School of Medicine
WS19-23-P	Elucidation of the mechanism of intestinal epithelial barrier disruption by regulatory T cell dysfunction
	Ryohei Akasako ¹⁾ , Mitsuki Ito ¹⁾ , Mina Sawaguchi ¹⁾ , Shuhei Ogawa ²⁾ , Yohsuke Harada ¹⁾ Taculty of Pharmaceutical Sciences, Tokyo University of Science, ²⁾ Research Institute for Biomedical Sciences, Tokyo University of Science
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WS20 Innat	te lymphocytes
WS20-01-O/P	Themis2 regulates natural killer cell memory function and formation
	Tsukasa Nabekura ^{1,2,3)} , Elfira Amalia Deborah ^{2,4)} , Akira Shibuya ^{1,2,3)}
	¹⁾ Life Science Center for Survival Dynamics, University of Tsukuba, ²⁾ Department of Immunology, Faculty of Medicine, University of Tsukuba, ³⁾ R&D Center for Innovative Drug Discovery, University of Tsukuba, ⁴⁾ Doctoral Program in Medical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba
WS20-02-O/P	Mechanisms underlying perturbed NK cell activation during pregnancy
	Ilariya Tarasova ¹⁾ , Jan Schroeder ¹⁾ , Martha Lappas ³⁾ , Susan Walker ³⁾ , Paul G Thomas ²⁾ , Louise Rowntree ¹⁾ ,
	Katherine Kedzierska ^{1,4)} 1)Department of Microbiology and Immunology, University of Melbourne at the Peter Doherty Institute for Infection and Immunity, Melbourne,
	Victoria, Australia, 21 Department of Immunology, St. Jude Children's Research Hospital, Memphis, Tennessee, USA, 31 Department of Obstetrics
	and Gynaecology, University of Melbourne, Heidelberg, Victoria, Australia, ⁴ Global Institution for Collaborative Research and Education (Gl-CoRE), Hokkaido University, Sapporo, Japan
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WS20-03-P	Role of homeostatic MHC class I recognition in regulating anti-tumor effector function of lung NK cells
	○ Ka He, Yui Yamamae, So-Ichiro Sasaki, Yoshihiro Hayakawa Institute of Natural Medicine, Toyama Univ.
WS20-04-P	Imatinib activates NK cells through up-regulation of CD112/CD155 expression on chronic myeloid
	leukemia cells
	○ Arisa Kato ^{1,2)} , Huong Thi Ngo ²⁾ , Takero Shindo ²⁾ , Kazuharu Kamachi ³⁾ , Takeshi Inukai ⁴⁾ , Shinya Kimura ³⁾ , Akifumi Takaori -Kondo ²⁾
	¹⁾ Laboratory of Single-Molecule Cell Biology, Kyoto University Graduate school of Biostudies, Kyoto, Japan, ²⁾ Department of Hematology and Oncology, Kyoto University Graduate School of Medicine, Kyoto, Japan, ³⁾ Division of Hematology, Respiratory Medicine and Oncology,
	Department of Internal Medicine, Faculty of Medicine, Saga University, Saga, Japan, ⁴⁾ Department of Pediatrics, School of Medicine, University of Yamanashi, Chuo, Japan

WS20-05-O/P	The metabolic adaptation is necessary for iNKT cells to differentiate into the follicular subset, which is regulated by Gr-1 ⁺ cells
	○ Koji Hayashizaki¹¹, Yasuhiro Kamii¹¹, Toshio Kanno²¹, Masato Kubo³¹, Toshiaki Ohteki⁴¹, Kazuyoshi Kawakami⁵¹, Yusuke Endo²¹, Yuki Kinjo¹¹
	¹⁾ Department of Bacteriology, The Jikei University School of Medicine, ²⁾ Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ³⁾ Division of Molecular Pathology, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science, ⁴⁾ Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University, ⁵⁾ Department of Medical Microbiology, Mycology and Immunology, Tohoku University Graduate School of Medicine
WS20-06-O/P	Zeb2 regulates differentiation of memory invariant NKT cells
	○ Tomonori Iyoda¹¹, Kanako Shimizu¹²².³¹, Takaho Endo⁴¹, Hiroshi Nakazato¹¹, Satoru Yamasaki¹¹, Shin-ichiro Fujii¹².².³¹ ¹¹Laboratory for Immunotherapy, RIKEN Center for Integrative Medical Sciences, ²¹aAVC Drug Translational Unit, RIKEN Center for Integrative Medical Sciences, ³¹Program for Drug Discovery and Medical Technology Platforms, RIKEN, ⁴¹Laboratory for Integrative Genomics, RIKEN Center for Integrative Medical Sciences
WS20-07-O/P	Type 1 innate lymphoid cells protect the liver from ischemia-reperfusion injury in mice
	 Kenshiro Matsuda^{1,2,3)}, Akira Shibuya^{1,2,3)} Department of Immunology, Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance, University of Tsukuba, Department of Immunology, Institute of Medicine, University of Tsukuba, R&D Center for Innovative Drug Discovery, University of Tsukuba
WS20-08-P	Group2 innate lymphoid cells ameliorate renal fibrosis and dysfunction associated with adenine-induced
	CKD Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, ²⁾ Division of Nephrology, Department of Medicine, Showa University School of Medicine
WS20-09-O/P	CKD Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, ² Division of Nephrology, Department of Medicine,
WS20-09-O/P	CKD Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, Division of Nephrology, Department of Medicine, Showa University School of Medicine
WS20-09-O/P WS20-10-P	CKD Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, Division of Nephrology, Department of Medicine, Showa University School of Medicine ILC2s exacerbate endometriosis via amphiregulin Kentaro Kubota ^{1,2)} , Tsuyoshi Kiniwa ¹⁾ , Kazuyo Moro ^{1,2,3)} Laboratory for Innate Immune Systems, RIKEN IMS, Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research
	CKD Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, Division of Nephrology, Department of Medicine, Showa University School of Medicine ILC2s exacerbate endometriosis via amphiregulin Kentaro Kubota ^{1,2)} , Tsuyoshi Kiniwa ¹⁾ , Kazuyo Moro ^{1,2,3)} Laboratory for Innate Immune Systems, RIKEN IMS, Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC)
	CKD Ryuichi Nagashima ¹⁾ , Hiroki Ishikawa ¹⁾ , Yoshihiro Kuno ^{1,2)} , Chikara Kohda ¹⁾ , Masayuki Iyoda ^{1,2)} Department of Microbiology and Immunology, Showa University School of Medicine, Division of Nephrology, Department of Medicine, Showa University School of Medicine ILC2s exacerbate endometriosis via amphiregulin Kentaro Kubota ^{1,2)} , Tsuyoshi Kiniwa ¹⁾ , Kazuyo Moro ^{1,2,3)} Laboratory for Innate Immune Systems, RIKEN IMS, Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC) NFIL3 is a key transcription factor for the function of lungs-derived ILC-2 cells Ahmed Samir Abu Tayeh ¹⁾ , Kosuke Miyauti ¹⁾ , Narumi Suzuki ¹⁾ , Mathis Ratel ¹⁾ , Masato Kubo ^{1,2)} Ahmed Samir Abu Tayeh ¹⁾ , Rosuke Miyauti ¹⁾ , Narumi Suzuki ¹⁾ , Mathis Ratel ¹⁾ , Masato Kubo ^{1,2)} Laboratory for Cytokine Regulation, Research Center for Integrative Medical Sciences (IMS), RIKEN Yokohama Institute, Yokohama, Kanagawa,
WS20-10-P	CKD Ryuichi Nagashima¹¹, Hiroki Ishikawa¹¹, Yoshihiro Kuno¹.²), Chikara Kohda¹¹, Masayuki Iyoda¹.²) Department of Microbiology and Immunology, Showa University School of Medicine, ²¹Division of Nephrology, Department of Medicine, Showa University School of Medicine ILC2s exacerbate endometriosis via amphiregulin Kentaro Kubota¹.²), Tsuyoshi Kiniwa¹¹, Kazuyo Moro¹.².³) Laboratory for Innate Immune Systems, RIKEN IMS, ²¹Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ³¹Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC) NFIL3 is a key transcription factor for the function of lungs-derived ILC-2 cells Ahmed Samir Abu Tayeh¹¹, Kosuke Miyauti ¹¹, Narumi Suzuki¹¹, Mathis Ratel¹¹, Masato Kubo¹.²⟩ Nalooratory for Cytokine Regulation, Research Center for Integrative Medical Sciences (IMS), RIKEN Yokohama Institute, Yokohama, Kanagawa, Japan, ²¹Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Chiba, Japan

WS20-12-O/P

Age-dependent expansion of group 3 innate lymphoid cells contributes to neutrophilic acute lung injury

○ Masato Asaoka^{1,2)}, Tetsuro Kobayashi¹⁾, Tommy Walter Terooatea³⁾, Jen Chien Chang³⁾, Aki Minoda³⁾, Koichi Fukunaga²⁾, Hiroki Kabata²⁾, Kazuyo Moro^{1,4,5)}

¹⁾Laboratory for Innate Immune systems, Center for Integrative Medical Sciences, RIKEN, ²⁾Division of Pulmonary Medicine, Department of Medicine, Keio University School of Medicine, ³⁾Laboratory for Cellular Epigenomics, Center for Integrative Medical Sciences, RIKEN, ⁴⁾Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ⁵⁾Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC)

WS20-13-O/P

Cnot3 differentially regulates development and function of innate lymphoid cells

○ Megumi Tatematsu¹¹, Akane Fuchimukai¹¹, Shunsuke Takasuga¹¹, Toshiki Yamada¹¹, Kenji Ishiwata²², Ichiro Taniuchi³³, Shinichiro Sawa⁴¹, Keiji Kuba⁵¹, Takashi Ebihara¹¹

¹⁾Department of Medical Biology, Akita University Graduate School of Medicine, ²⁾Department of Tropical Medicine, The Jikei University School of Medicine, ³⁾Laboratory for Transcriptional Regulation, RIKEN Center for Integrative Medical Sciences, ⁴⁾Division of Mucosal Immunology, Research Center for Systems Immunology, Kyushu University, ⁵⁾Department of Pharmacology, Kyushu University Graduate School of Medical Sciences

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WS21 B cell (1)-from birth to death WS21-01-O/P A multimorphic mutation in IRF4 causes human autosomal dominant combined immunodeficiency Zhijia Yu¹, Oriol Fornes², Alicia Jia², Hve Sun Kuehn³, Qing Min⁴, Ulrich Pannicke⁵, Nikolai Schleussner⁶ Romane Thouenon⁷⁾ ¹⁾The Australian National University, ²⁾University of British Columbia, ³⁾NIH, ⁴⁾Fudan University, ⁵⁾University of Ulm, ⁶⁾MDC/ECRC, ⁷⁾Universite Paris Cite WS21-02-O/P The origin of natural IgM-producing cells assessed by the RAG2-based cell fate tracking system ○ Keiko Fujisaki¹¹, Shogo Okazaki²¹, Ryo Goitsuka¹¹ ¹⁾Division of Cell Fate Regulation, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾Department of of Microbiology, Nihon University School of Dentistry WS21-03-P Recognition landscape of inborn B cells derived antibodies to microbiota in early life Qisheng Gu^{1,2)}, Marion Draheim¹⁾, Zihan He¹⁾, Cyril Planchais³⁾, Fan Mu¹⁾, Shijie Gong¹⁾, Hugo Mouquet³⁾, Richard Lo-Man^{1,2)} ¹⁾Unit of Immunity and Pediatric Infectious Diseases. Shanghai Institute of Immunity and Infection. Chinese Academy of Sciences. Shanghai. China, ²⁾Department of Immunology, BioSPC, Université Paris Cité, Paris, France, ³⁾Laboratory of Humoral Immunology, Institut Pasteur, INSERM, Paris, France WS21-04-O/P Ago2 and a miRNA reduce DNA topoisomerase 1 (Top1) for enhancing DNA cleavage in antibody diversification by activation-induced cytidine deaminase (AID) Maki Kobayashi¹⁾, Hiroyuki Wakaguri²⁾, Masakazu Shimizu²⁾, Koichiro Higasa²⁾, Fumihiko Matsuda²⁾, Tasuku Honjo¹⁾ ¹⁾Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Kyoto University Graduate School of Medicine, ²⁾Center for Genomic Medicine, Kyoto University Graduate School of Medicine WS21-05-P Influences of pre-B cell receptor deficiency on repertoires of naive immunoglobulin heavy and light chains and of antigen-responding heavy chains in peripheral blood B cells ¹⁾Department of Immunology, Kochi Medical School, Kochi University, ²⁾Department of Immunology, National Institute of Infectious Diseases WS21-06-O/P Nucleolar protein NOP16 regulates AID induction and dictates the directionality of B-cell class switch recombination O Yohana Silas Mtali, Ken Takashima, Hiroyuki Oshiumi Department of Immunology, Graduate School of Medical Sciences, Kumamoto University CXCR4 promotes B cell viability by the cooperation of nuclear factor (erythroid-derived 2)-like 2 and WS21-07-P hypoxia-inducible factor- 1α under hypoxic conditions O Eun Yi Moon Sejong University WS21-08-P Explication of immune profile focusing on BAFF in B lymphomas Nami Tagami, Yasuyuki Goto Laboratory of Molecular Immunology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan Immunoglobulin A deficiency causes immunological and neurological disorders WS21-09-O/P ○ Takahiro Adachi¹⁾, Kiminori Nakamura²⁾, Mayuko Hashimoto³⁾, Yutaka Kusumoto³⁾, Michio Tomura³⁾ ¹⁾Dept. Precision Health, MRI, TMDU, ²⁾Depart. Cell Biological Science, ALS, Hokkaido Univ. Graduate School of Life Science, ³⁾Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani Univ. WS21-10-P Interleukin 21 commits IgG1* cells not to undergo class switch to IgE but to differentiate into plasmablasts Masaaki Hashiguchi, Yoshiko Iwai

Dept. Cell Biology, Inst. Advanced Medical Sciences, Nippon Medical School

WS21-11-O/P	Cytokine-induced IgE production from B1 cells exacerbates allergic inflammation Yasutaka Motomura ^{1,2,4)} , Yohei Maeda ³⁾ , Masaki Hayama ³⁾ , Kazuyo Moro ^{1,2,4)}
	¹⁾ Laboratory for Innate Immune Systems, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²⁾ Laboratory for Innate Immune Systems, Osaka University Immunology Frontier Research Center (IFReC), ³⁾ Department of Otorhinolaryngology-Head and Neck surgery, Graduate School of Medicine, Osaka University, Osaka, Japan, ⁴⁾ Laboratory for Innate Immune Systems, RIKEN IMS
WS21-12-P	Nerve growth factor is involved in the regulation of IgE class switch recombination in human B cells
	○ Kano Tanabe, Yukinori KozumaKumamoto health science university
WS21-13-O/P	Chronic BCR signaling shapes the generation and maintenance of age-associated B cells from anergic B cells
	Ceisuke Imabayashi ¹⁾ , Hiroaki Niiro ²⁾ , Yoshihiro Baba ¹⁾ Division of Immunology and Genome Biology, Medical Institute of Bioregulation, Kyushu University, ²⁾ Department of Medical Education, Faculty of Medical Sciences, Kyushu University Graduate School of Medical Sciences
WS21-14-P	Reversal of brain dysfunction through control of senescent cells
	O Ayame Nagafuchi ¹⁾ , Ako Matsui ¹⁾ , Mana lizuka ²⁾ , Akihiko Yoshimura ²⁾ , Minako Ito ¹⁾ Division of Allergy and Immunology, Medical Institute of Bioregulation, Kyushu University, ²⁾ Department of Microbiology and Immunology, Keio University School of Medicine
WS21-15-P	Actin cytoskeleton remodeling is promoted in age-associated B cells
	O Ryohei Kondo ¹⁾ , Mitsuhiro Fujiwara ^{1,2)} , Akihiko Nishikimi ¹⁾ Piiosafety Administration Division, Research Institute, National Center for Geriatrics and Gerontology, PiDepartment of Physical Therapy, School of Health Sciences, Toyohashi SOZO University
January 19	
WS22 Tumor	immunity-3; Analysis of tumor immunity
WS22-01-O/P	Identification of candidate target genes for maintaining TCF1 ^{high} CD8 ⁺ T cells under high IL-2 conditions
	○ Satsuki Okafuji ¹ , Soyoko Morimoto ² , Fumihiro Fujiki ³ , Akinori Nagata ¹ , Jun Nakata ¹ , Hiroko Nakajima ⁴ , Sumiyuki Nishida ^{5,6} , Yoshihiro Oka ² , Yusuke Oji ¹ , Haruo Sugiyama ⁴)
	¹⁾ Department of Clinical Laboratory and Biomedical Sciences, Osaka University Graduate School of Medicine, ²⁾ Department of Cancer Stem Cell Biology, Osaka University Graduate School of Medicine, ³⁾ Department of Cancer Immunotherapy, Osaka University Graduate School of Medicine, ⁵⁾ Strategic Global Partnership & X(Cross)-Innovation Initiative Graduate School of Medicine, Osaka University and Osaka University Hospital, ⁶⁾ Department of Respiratory Medicine and Clinical Immunology Graduate School of Medicine, Osaka University
WS22-02-O/P	Transcription factor Bach2 controls anti-tumor immunity via regulation of CD8 T cell innate immune function
	○ Yuko Matsuoka¹¹, Junpei Suzuki²¹, Makoto Kuwahara²¹, Masakatsu Yamashita¹.²¹ ¹¹Translational Research Center, Ehime University Hospital, Ehime University, ²¹Department of Immunology, Graduate School of Medicine, Ehime University
WS22-03-O/P	Characteristics of tumor antigen-reactive CD8 ⁺ T cell population in tumor-infiltrating lymphocytes from
	gastric cancer
	Nobuo Tsukamoto ¹⁾ , Takafumi Okayama ^{1,2)} , Toshihiro Suzuki ¹⁾ , Takahiro Kinoshita ²⁾ , Tetsuya Nakatsura ¹⁾ Division of Cancer Immunotherapy, Exploratory Oncology Research & Clinical Trial Center, National Cancer Center, ²⁾ Gastric Surgery Division, National Cancer Center Hospital East
WS22-04-O/P	Fatty acid oxidation in CD8 ⁺ T cells prevents terminally exhaustion and increases anti-tumor immunity
	○ Koji Kitaoka ¹⁾ , Yasuharu Haku ¹⁾ , Tomonori Yaguchi ^{1,2)} , Tasuku Honjo ¹⁾ , Kenji Chamoto ^{1,2)}

WS22-05-O/P	Addressing Tumor Heterogeneity by Sensitizing Resistant Cancer Cells to T cell-secreted Cytokines				
	○ Yoshinaga Ito ^{1,2,3)} , Deng Pan ^{2,3)} , Wubing Zhang ⁴⁾ , Xixi Zhang ^{2,3)} , Tiffany Juan ²⁾ , Jason Pyrdol ²⁾ , Oleksandr Kyrysyuk ²⁾ , John Doench ⁵⁾ , X. Shirley Liu ⁴⁾ , Kai W. Wucherpfennig ^{2,3)}				
	¹⁾ Kyoto University, Institute for Life and Medical Sciences, ²⁾ Department of Cancer Immunology and Virology, Dana-Farber Cancer Institute, ³⁾ Department of Immunology, Harvard Medical School, ⁴⁾ Department of Data Sciences, Dana-Farber Cancer Institute, ⁵⁾ Genetic Perturbation Platform, Broad Institute of MIT and Harvard				
WS22-06-O/P	MAIT cells have a negative impact on glioblastoma				
	 Masaki Terabe¹, Taijun Hana¹, Seke Keretsu¹, Nargis Malik¹, Hye Kim¹, Alexander Lee², Matthew Watowich¹, Masashi Watanabe¹, Robert Prins², Mark Gilbert¹ National Cancer Institute, NIH, ²UCLA 				
WS22-07-O/P	Analysis of intertumoral and intratumoral heterogeneity based on molecular subtypes in clear cell renal				
	cell carcinoma reveals immune suppressive phenotype of the angiogenesis-related immune signatures				
	C Katsuhiro Ito ^{1,2)} , Tomonori Yaguchi ¹⁾ , Kenji Chamoto ¹⁾ , Takayuki Sumiyoshi ²⁾ , Yuki Kita ²⁾ , Takashi Kobayashi ²⁾ , Tasuku Honjo ¹⁾				
	¹⁾ Kyoto University Graduate School of Medicine Department of Immunology and Genomic Medicine, ²⁾ Kyoto University Graduate School of Medicine Department of Urology				
WS22-08-P	Targeted demethylation and activation of NLRC5 augment cancer immunogenicity through MHC class I				
	○ Xin Sun ¹⁾ , Toshiyuki Watanabe ¹⁾ , Yoshitaka Oda ²⁾ , Weidong Shen ³⁾ , Ryota Ouda ¹⁾ , Paul de Figueiredo ^{4,5)} , Hidemitsu Kitamura ^{3,6)} , Shinya Tanaka ^{2,7)} , Koichi S. Kobayashi ^{1,4,8)}				
	¹⁾ Department of Immunology, Graduate School of Medicine, Hokkaido University; Sapporo 060-8638, Japan, ²⁾ Department of Cancer Pathology, Graduate School of Medicine, Hokkaido University; Hokkaido, Sapporo 060-8638, Japan, ³⁾ Division of Functional Immunology, Section of Disease Control, Institute for Genetic Medicine, Hokkaido University; Sapporo 060-8638, Japan, ⁴⁾ Department of Microbial Pathogenesis and Immunology, Texas A&M Health Science Center; Bryan 77807, TX, USA, ⁵⁾ Department of Veterinary Pathobiology, Texas A&M University; College Station 77845, TX, USA, ⁶⁾ Department of Biomedical Engineering, Faculty of Science and Engineering, Toyo University; Kawagoe, Japan, ⁷⁾ Institute for Chemical Reaction Design and Discovery (WPI-ICReDD), Hokkaido University; Sapporo 001-0021, Japan, ⁸⁾ Hokkaido University, Institute for Vaccine Research and Development (HU-IVReD); Sapporo 060-8638, Japan				
WS22-09-P	The role of HDACs in the negative regulation of MHC class I gene expression				
	O Alaa Ahmad ¹⁾ , An Ning ¹⁾ , Ryota Ouda ¹⁾ , Xin Sun ¹⁾ , Tsutomu Tanaka ¹⁾ , Koichi S Kobayashi ^{1,2,3)} Department of Immunology, Hokkaido University Graduate School of Medicine, Department of Microbial Pathogenesis and Immunology, Hokkaido University Institute for Vaccine Research and Development				
WS22-10-P	A novel proteogenomic approach for HLA class I and II neoantigen identification				
	○ 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				
WS22-11-P	Regulatory T cells suppress cross-presentation by vascular endothelial cells				
	O Toshihiro Komatsu ¹⁾ , Takeyuki Shimizu ¹⁾ , Yoshiaki Kubota ²⁾ , Keiko Udaka ¹⁾ Department of Immunology, School of Medicine, Kochi University., ²⁾ Department of Anatomy, School of Medicine, Keio University.				
WS22-12-P	Regulation of tumor immune responses by dead cell-derived molecules				
	○ Hideyuki Yanai RCAST, The University of Tokyo				
WS22-13-P	A critical molecule in licensing immunosuppresion in the tumor microenvironment				
	Oliao Gou, Hiroyuki Takaba, Hiroshi Takayanagi Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo				
WS22-14-P	The multiple myeloma microenvironment triggers inflammasome activation in tolerogenic dendritic cells				
	to promote disease progression				
	 Mariko Ishibashi¹⁾, Mika Sunakawa^{1,2)}, Rimpei Morita¹⁾ Department of Microbiology and Immunology, Nippon Medical School, ²⁾Department of Hematology, Nippon Medical School 				
WS22-15-P	SPRED2 promotes autophagy via mTORC1 signaling pathway in hepatocellular carcinoma				
	○ Tianyi Wang, Tong Gao, Toshiaki Ohara, Masayoshi Fujisawa, Teizo Yoshimura, Akihiro Matsukawa Okayama University, Graduate school of medicine, Dentistry and pharmaceutical sciences, Department of Pathology and Experimental Medicine				

WS22-16-P	"Persister" B16 melanoma cells that survive cytotoxic agents stimulate host immune responses but evade immunologic elimination				
	 Yukie Ando, Sara Hatazawa, Momo Mataki, Akihiro Nakamura, Yutaka Horiuchi, Takashi Murakami Department of Microbiology, Faculty of Medicine, Saitama medical university 				
WS22-17-P	Memory-Phenotype CD4 ⁺ T Lymphocytes Can Contribute to Tumor Control without Inducing Graft-versus- Host Disease				
	 Ziying Yang, Jing Li, Hideaki Watanabe, Keita Koinuma, Akihisa Kawajiri, Kosuke Sato, Shunichi Tayama, Yuko Okuyama, Naoto Ishii, Takeshi Kawabe Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine 				
WS22-18-P	A novel genetic method for labeling and depletion of tumor specific macrophages				
	Ayumi Kuratani ¹⁾ , Masaaki Okamoto ¹ , Masahiro Yamamoto ^{1,2,3)} ¹⁾ Department of Immunoparasitology, RIMD, Osaka University, ²⁾ Laboratory of Immunoparasitology, IFReC, Osaka University, ³⁾ CIDER, Osaka University				
WS22-19-P	Initial myeloid cell status is associated with clinical outcomes of renal cell carcinoma				
	○ Yuji Takeda ¹⁾ , Saima Sabrina ¹⁾ , Tomoyuki Kato ²⁾ , Shinichi Saitoh ¹⁾ , Akemi Araki ¹⁾ , Mikako Nagashima ¹⁾ , Hidetoshi Nara ³⁾ , Hironobu Asao ¹⁾				
	¹⁾ Department of Immunology, Yamagata University Faculty of Medicine, ²⁾ Department of Urology, Yamagata University Faculty of Medicine, ³⁾ Department of Biological Sciences, Faculty of Science and Engineering, Ishinomaki Senshu University				
WS22-20-P	Gut microbiota supports host anti-tumor immunity in the kidney via CX₃CL1				
	Hirotaka Kawanabe-Matsuda ^{1,2,3)} , Marie Nakamura ³⁾ , Koji Hase ²⁾ , Yun-Gi Kim ¹⁾ ¹⁾ Research Center for Drug Discovery, Faculty of Pharmacy, Keio University, Tokyo, Japan, ²⁾ Division of Biochemistry, Faculty of Pharmacy, Keio University, Tokyo, Japan, ³⁾ Wellness Science Labs, Meiji Holdings Co., Ltd., Tokyo, Japan				
WS22-21-P	Stromal defense against cancer bone invasion by the periosteum				
	Masayuki Tsukasaki ¹⁾ , Kazutaka Nakamura ^{2,3)} , Hiroshi Takayanagi ²⁾ ¹⁾ Department of Osteoimmunology Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ²⁾ Department of Immunology Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, ³⁾ Department of Oral and Maxillofacial Surgery, Department of Sensory and Motor System Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan				
WS22-22-P	Analysis of circulating ITGB1 ⁺ monocytes in pancreatic cancer				
	 Sadahiro Iwabuchi¹, Hideki Motobayashi², Yuji Kitahata², Ken-ichi Okada², Masaki Ueno², Shinya Hayami², Tadashi Imafuku¹, Atsushi Miyamoto², Manabu Kawai², Shinichi Hashimoto¹ ¹Department of Molecular Pathophysiology, Wakayama Medical University, ²Second Department of Surgery, Wakayama Medical University 				
WS22-23-P	The molecular mechanism of "Cancer cell cannibalism" and its significance in cancer progression				
	 Takaaki Tsunematsu, Ruka Nagao, Shigefumi Matsuzawa, Kunihiro Otsuka, Aya Ushio, Naozumi Ishimaru Department of Oral Molecular Pathology, Tokushima University Graduate School of Biomedical Sciences 				
WS22-24-P	Tumor-associated macrophages as a key player in type 2 endometrial cancer progression				
WS22-25-P	Elucidating The Roles Of Immune Cells Arising From Clonal Hematopoiesis In Colon Cancer Metastasis				
	¹⁾ Department of Hematology, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Ibaraki, Japan, ²⁾ Department of Hematology, Faculty of Medicine, University of Tsukuba, Ibaraki, Japan, ³⁾ Department of Hematology, University of Tsukuba Hospital, Ibaraki, Japan, ⁴⁾ Division of Genetics, Cancer Research Institute, Kanazawa University, Kanazawa, Japan				
WS22-26-P	Tumor-Associated Macrophages Enhance Tumor Growth via Cholesterol Metabolism in Liver Cancer Cells and Monocytes Coculture Spheroids				
	O Pornlapat Keawvilai, Patipark Kueanjinda, Jeerameth Klomsing, Tanapat Palaga				

Chulalongkorn University

WS22-27-P

Lymph node stromal cell-derived CXCL12 modulates tumor immune responses

○ 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 and Developmental Immunology, Graduate School of Frontier Biosciences, Osaka University

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WS23 Organ specific autoimmunity

WS23-01-O/P

CLEC16A-driven mitophagy limits astrocyte proinflammatory activities

Atsushi Kadowaki^{1,2)}, Michael Wheeler^{1,3)}, Zhaolong Li¹⁾, Alain Ndayisaba¹⁾, Stephanie Zandee⁵⁾, Himanish Basu⁴⁾, Chun-Chei Chao¹⁾, Scott Soleinmanpour⁶⁾, Isaac Chiu⁴⁾, Alexandre Prat⁵⁾, Vikram Khurana^{1,7)}, Francisco Quintana^{1,3)}

¹⁾Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital, Harvard Medical School, ²⁾Department of Neurology, Osaka University, ³⁾Broad Institute of MIT and Harvard, Cambridge, ⁴⁾Department of Immunology, Harvard Medical School, ⁵⁾Neuroimmunology Research Lab, CRCHUM and Department of Neuroscience, Faculty of Medicine, Universite de Montreal, ⁶⁾Division of Metabolism, Endocrinology and Diabetes and Department of Internal Medicine, University of Michigan Medical School, ⁷⁾Harvard Stem Cell Institute

WS23-02-P

T cell-specific deletion of TRAIL receptor reveals its critical role for regulating pathologic T cell activation and disease induction in experimental autoimmune encephalomyelitis

○ I-Tsu Chyuan^{1,2)}, Ping-Ning Hsu^{3,4)}

¹⁾School of Medicine, College of Life Science and Medicine, National Tsing Hua University, ²⁾Department of Internal Medicine, Cathay General Hospital, ³⁾Department of Internal Medicine, College of Medicine, National Taiwan University, ⁴⁾Department of Internal Medicine, National Taiwan University Hospital

WS23-03-O/P

Ketogenic diet regulates central nervous inflammation via changes in small intestinal gut microbiota

C 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

WS23-04-P

Effects of component derived from *Mycobacterium bovis* bacillus Calmette-Guerin (BCG) on induction and suppression of experimental autoimmune encephalomyelitis (EAE) in mouse

○ Hideyasu Killian Kiyohara JAPAN BCG LABORATORY

WS23-05-O/P

Mitochondrial cysteinyl-tRNA synthetase (CARS2) -dependent sulfur metabolism exacerbates a mouse model of multiple sclerosis through antiqen presentation

○ Hibiki Suzuki¹⁾, Kyoga Hiraide¹⁾, Yuya Kitamura¹⁾, Shunichi Tayama¹⁾, Kosuke Sato¹⁾, Keita Koinuma¹⁾, Yuko Okuyama¹⁾, Takeshi Kawabe¹⁾, Takaaki Akaike²⁾, Naoto Ishii¹⁾

¹⁾Department of Microbiology and Immunology, Tohoku University Graduate School of Medicine, ²⁾Department of Environmental Health Sciences and Molecular Toxicology, Tohoku University Graduate School of Medicine

WS23-06-P

Role of thrombin cleavage of nephronectin in the development of experimental autoimmune encephalitis

O Shigeyuki Kon, Machiko Honda

Department of Molecular Immunology, Faculty of Pharmaceutical Sciences, Fukuyama University

WS23-07-O/P

Self-reactive Th cells express Neuropilin-1 (NRP1) following activation in autoimmune disease

○ Ben JE Raveney^{1,2)}, Atsuko Kimura¹⁾, Youwei Lin³⁾, Tomoko Okamoto³⁾, Atsuko Katsumoto³⁾, Reiko Saika³⁾, Shohei Hori⁴⁾, Wakiro Sato^{1,3)}, Shinji Oki¹⁾, Takashi Yamamura^{1,3)}

¹⁾National Institute of Neuroscience; National Center of Neurology and Psychiatry, Kodaira, Tokyo, Japan, ²⁾RIKEN IMS, Yokohama, Kanagawa, Japan, ³⁾National Center Hospital, National Center of Neurology and Psychiatry, Kodaira, Tokyo, Japan, ⁴⁾Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan

WS23-08-O/P

GM-CSF promotes long-term survival of myeloid cells of peripheral origin in the central nervous system for pain-induced relapse of neuroinflammation

○ Shintaro Hojyo^{1,3,7}, Shiina Matsuyama¹⁾, Reiji Yamamoto^{1,2)}, Kaoru Murakami^{1,3)}, Junko Nio-Kobayashi⁴⁾, Tadafumi Kawamoto⁵⁾, Takeshi Yamasaki^{6,1)}, Rie Hasebe^{1,6)}, Daisuke Kamimura¹⁾, Shigeru Hashimoto¹⁾, Yuki Tanaka^{1,3)}, Masaaki Murakami^{1,3,6,7)}

¹⁾Division of Molecular Psychoneuroimmunology, Institute for Genetic Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ²⁾Department of Orthopaedic Surgery, Faculty of Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ³⁾Group of Quantum Immunology, Institute for Quantum Life Science, National Institute for Quantum and Radiological Science and Technology, Inage, Japan, ⁴⁾Laboratory of Histology and Cytology, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, ⁵⁾Department of Dentistry, Tsurumi University, Yokohama, Japan, ⁵⁾Division of Molecular Neuroimmunology, National Institute for Physiological Sciences, National Institute for Natural Sciences, Okazaki, Japan, ⁷⁾Institute for Vaccine Research and Development, Hokkaido University, Sapporo, Japan

WS23-09-O/P

Protective Effects of Inulin on Stress-Recurrent Inflammatory Bowel Disease

C Kanami Orihara, Yao Du, Kanta Kusama, Xinyue Chen, Susumu Kajiwara Tokyo Institute of Technology, School of Life Science and Engineering

WS23-10-P

Role of niche-specific Foxp3⁺ cell and lymph extracellular vesicles in the pathogenesis of Ulcerative Colitis

○ Hisashi Ueta¹⁾, Toshiya Tanaka²⁾, Hidefumi Kojima¹⁾, Keiichi Tominaga¹⁾, Yusuke Kitazawa¹⁾, Yasushi Sawanobori¹⁾, Mina Shirabe¹⁾, Atsushi Irisawa¹⁾, Nobuko Tokuda¹⁾

1)Dokkyo Medical University, 2)The University of Tokyo

WS23-11-P

A novel inflammatory bowel disease model, c-MIR Tg mice, demonstrates a naturally occurring ulcerative colitis-like disease exacerbated by lymphopenia-induced proliferation of CD4⁺ T cells

O Hideki Ogura, Satoshi Ishido

Department of Microbiology, School of Medicine, Hyogo Medical University

WS23-12-O/P

Treg-mediated inhibition of protein translation in effector T cells is critical in maintaining peripheral tolerance in humans and mice

Carry Kazushige Obata-Ninomiya¹⁾, Lomon So^{1,2)}, Jing Song¹⁾, Jane H Buckner¹⁾, Ram Savan¹⁾, Steven F Ziegler¹⁾

The Benaroya Research Institute at Virginia Mason, ²⁾University of Washington

WS23-13-P

Clinical evaluation of Graves' disease using TSH receptor autoantibody (TRAb)-isotype and TRAb-IgM/TRAb-IgG (the MG ratio)

O Keiko Nagata, Takeshi Imamura

Division of Pharmacology, Faculty of Medicine, Tottori University

WS23-14-P

Elimination mechanism of B16 melanoma cells in autoimmune prone mice

Yuriko Tanaka¹⁾, Marii Ise¹⁾, Taku Naito¹⁾, Taku Kuwabara¹⁾, Shuhei Mashimo^{1,2)}, Akiko Inoue^{1,3)}, Motonari Kondo¹⁾
Department of Molecular Immunology Toho University School of Medicine,
Department of Otolaryngology, Toho University School of Medicine
Department of Otolaryngology, Toho University School of Medicine

WS23-15-P

The effect of histone JmjC-containing domain (JmjD) demethylase in Graves' ophthalmopathy orbital fibroblasts activation

O Natcha Yakkaphan¹⁾, Tanapat Palaga²⁾, Preamjit Saonanon³⁾, Vannakorn Pruksakorn³⁾, P. Martin van Hagen^{4,5,6)}, Willem A. Dik⁵⁾. Sita Virakul²⁾

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

WS23-16-P	LSD1 regulates hyaluronan production in Graves' ophthalmopathy orbital fibroblasts
	Natcha Yakkaphan ¹⁾ , Tanapat Palaga ²⁾ , Preamjit Saonanon ³⁾ , Vannakorn Pruksakorn ³⁾ , P. Martin van Hagen ^{4,5,6)} , Willem A. Dik ⁵⁾ , O Sita Virakul ²⁾
	¹⁾ Medical Microbiology, Interdisciplinary Program, Graduate School, Chulalongkorn University, Bangkok, Thailand, ²⁾ Department of Microbiology, Faculty of Science, Chulalongkorn University, ³⁾ Department of Ophthalmology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁴⁾ Center of Excellence in Immunology and Immune mediated Disease, Department of Microbiology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ⁵⁾ Laboratory Medical Immunology, department of Immunology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands, ⁶⁾ Department of Internal Medicine, Division of Clinical Immunology, and Immunology, Erasmus MC, University Medical Center, Rotterdam, The Netherlands
WS23-17-P	Generation of autoreactive bone marrow plasma cells
	 Wataru Okada, Yuka Takuma, Sano Nagano, Harumi Sasaki, Miya Yoshino, Koji Tokoyoda Division of Immunology, Graduate School of Medicine, Tottori University
W523-18-O/P	Oral bacteria trigger the production of IgA autoantibodies in IgA nephropathy model mice Mizuki Higashiyama ¹⁾ , Kei Haniuda ^{2,1)} , Yoshihito Nihei ^{3,1)} , Daisuke Kitamura ¹⁾ Tokyo University of Science, Research Institute for Biomedical Sciences(RIBS), Department of Immunology, University of Toronto, Toronto, Canada, Department of Nephrology, Juntendo University Faculty of Medicine, Tokyo, Japan
WS23-19-P	Deciphering the characteristics of T regulatory cell subsets in pemphigus Farzan Solimani Charité - Universitätsmedizin Berlin
WS23-20-P	Computer model of foam cell formation in atherosclerosis
	Satoshi Yamada ¹⁾ , Akihiko Yoshimura ²⁾ , Masaaki Murakami ^{3,4)} ¹⁾ Department of Information Science and Engineering, Okayama University of Science, ²⁾ School of Medicine, Keio University, ³⁾ Institute for Genetic Medicine, Hokkaido University, ⁴⁾ Institute for quantum life science, National institutes for quantum and radiological science and technology
WS23-21-P	Single cell-RNA sequencing analysis of retinal cells in streptozotocin-induced diabetic mice developing experimental autoimmune uveoretinitis
	¹⁾ Department of Ophthalmology, National Defense Medical Collage, ²⁾ Department of Developmental Anatomy, National Defense Medical Collage
January 19	
WS24 T cell	development and function
WS24-01-O/P	Cytidine deaminase-based assembly of anticipatory antigen receptors in lamprey alternative adaptive immune system
	Ryo Morimoto Max Planck Institute of Immunobiology and Epigenetics
WS24-02-P	Notch-dependent functional conversion of RUNX transcription factors regulates the initiation of T-lineage program Ordinity of the second of t
	 Yuichi Kama, Katsuto Hozumi, Hiroyuki Hosokawa Department of Immunology, Tokai University School of Medicine
WS24-03-O/P	Single-cell Multiome analysis unravels the lineage choice of T-cell versus innate lymphoid cells mediated by E2A-ld2-Notch1 axis Masaki Miyazaki ¹⁾ , Kazuko Miyazaki ¹⁾ , Kenta Horie ^{2,3)} , Taishin Akiyama ²⁾ , katsuto Hozumi ⁴⁾ , Hiroshi Kawamoto ¹⁾
	¹¹ Kyoto University, ² RIKEN center for integrative medical sciences, ³ Chiba University, ⁴ Tokai University School of Medicine
WS24-04-P	Etv6 is a Tcf7- and Hes1-independent Notch target gene in the initiation of the T-lineage program

O Ken-ichi Hirano, Katsuto Hozumi, Hiroyuki Hosokawa Department of Immunology, Tokai University School of Medicine

WS24-05-P	Notch-E2A-Id2 axis orchestrates a developmental shift of T cell versus innate lymphoid cell lineage during the thymic ontogeny
	Rinako Hayashi ^{1,2)} , Masaki Miyazaki ²⁾ , Kazuko Miyazaki ²⁾ , Kenta Horie ^{3,4)} , Taishin Akiyama ⁴⁾ , Katsuko Hozumi ⁵⁾ , Hiroshi Kawamoto ²⁾
	¹ Kyoto University, school of Medicine, ² Kyoto University, Institute for Life and Medical Sciences, ³ Chiba University, ⁴ RIKEN center for integrative medicine, ⁵ Tokai University School of Medicine
WS24-06-P	The Role of BRD4 in Thymic Differentiation and Function
	O Dinah S. Singer, Jie Mu, Mami Matsuda-Lennikov, Yousuke Takahama National Cancer Institute, NIH, USA
WS24-07-P	Roles of SATB1 in Regulation of Thymocyte Migration after Positive Selection
	○ Taku Naito¹¹, Marii Ise¹¹, Yuriko Tanaka¹¹, Taku Kuwabara¹¹, Terumi Kohwi-Shigematsu²¹, Motonari Kondo¹¹ ¹¹Dept of Mol Immunol, Toho University School of Medicine, ²¹Department of Orofacial Science, University of California
WS24-08-P	Investigation of the relationship between T cell differentiation and maturation and autophagy in the thymus
	○ Shigefumi Matsuzawa ^{1,2)} , Aya Ushio ¹⁾ , Ruka Nagao ¹⁾ , Kunihiro Otsuka ¹⁾ , Hiroaki Tawara ¹⁾ , Takaaki Tsunematsu ¹⁾ , Naozumi Ishimaru ¹⁾
	¹ Division of Oral Molecular Pathology, Faculty of Medicine and Pharmacy, Tokushima University, ² Section of Oral and Maxillofacial Surgery, Division of Maxillofacial Diagnostic and Surgical Sciences, Faculty of Dental Science, Kyushu University
WS24-09-P	The roll of IL-7 in formation of the medullary microenvironment in the thymus
	Marii Ise, Taku Kuwabara, Yuriko Tanaka, Taku Naito, Motonari Kondo Department of Molecular Immunology, Faculty of Medicine, Toho University
WS24-10-P	c-SMAC formation in double positive T cells as a checkpoint in thymic selection
	O Hitoshi Nishijima, Ei Wakamatsu, Hiroaki Machiyama, Arata Takeuchi, Tetsushi Nishikawa, Yosuke Yoshida, Tadashi Yokosuka Tokyo medical university
WS24-11-O/P	Understanding of Lck functions during thymocyte differentiation
	Junji Harada ^{1,2)} , Ichiro Taniuchi ¹⁾ 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
WS24-12-P	In vivo temporal depletion of Satb1 and PD-1 by OsTIR1 and CRBN degron systems in mice
_	 Motoi Yamashita, Aneela Nomura, Ichiro Taniuchi Laboratory for Transcriptional Regulation, Center for Integrative Medical Sciences, RIKEN
WS24-13-O/P	T cell receptor repertoires of regulatory and conventional T cells converge during differentiation into effector or memory states
	Reiko Tsukazaki, Ryuichi Murakami, Shohei Hori Laboratory of Immunology and Microbiology, Graduate School of Pharmaceutical Sciences, The University of Tokyo
WS24-14-P	Roles of Satb1 in the maintenance of the functional fitness of regulatory and cytotoxic T lymphocytes
	─ Wooseok Seo¹¹, Chengcheng Zou²¹, Kanako Shimizu²¹, Ruka Setoguchi³¹, Kiyokazu Kakugawa²¹, Krutula Nair²¹, Shohei Hori³¹, Shin-ichiro Fujii²¹, Hiroyoshi Nishikawa¹¹, Ichiro Taniuchi²¹ ¹¹Nagoya University, ²¹RIKEN, ³¹The University of Tokyo
WS24-15-P	Cohesin-mediated chromatin regulation in the regulatory T cells is required for the immune homeostasis
	Kentaro Fujiwara ^{1,2)} , Masaki Miyazaki ²⁾ , Kazuko Miyazaki ²⁾ , Katsuhiko Shirahige ³⁾ , Hiroshi Kawamoto ²⁾ "Ykyoto University, School of medicine, "Kyoto University, Institute for Life and Medical Sciences, "The University of Tokyo, Institute for Quantitative Biosciences
WS24-16-P	The roles of transcription elongation factor Cdk9 in T cells
	○ Shin-ichi Tsukumo, Koji Yasutomo

Dept. Immu. and Parasitol., Tokushima Univ.

WS24-17-P	Point mutations in the Roryt ligand-binding domain disrupts the generation of IL-17A producing cells in
W32 4- 17-F	inflammatory autoimmune diseases
	○ Keisuke Miyako¹¹, Toshio Kanno¹¹, Takahiro Nakajima¹²², Yusuke Endo¹¹
	¹⁾ Department of Frontier Research and Development, Laboratory of Medical Omics Research, Kazusa DNA Research Institute, ²⁾ Faculty of Nursing, Tokyo University of Information Sciences
WS24-18-P	The role of Polycomb group gene Eed in invariant NKT cell development and liver protection
	Yun Guo, Yohei Kawano, Masamoto Kanno, Tomoharu Yasuda Department of Immunology, Graduate School of Biomedical & Health Sciences, Hiroshima University
WS24-19-O/P	(Pro)renin receptor controls immune responses by promoting the survival of naive T and iNKT cells
	Satoru Munakata ^{1,2)} , Akihiro Shimba ^{1,3)} , Koichi Ikuta ¹⁾ 1)Laboratory of Immune Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾ Graduate School of Biostudies, Kyoto University, ³⁾ Department of Human Health Sciences, Graduate School of Medicine, Kyoto University
WS24-20-O/P	Vitamin C treatment enhances the immune responses of CD8 ⁺ T cellsby upregulation of Batf3
	 Kenta Kondo, Koji Terada, Yasutoshi Agata Department of Biochemistry and Molecular Biology, Shiga University of Medical Science
WS24-21-P	The transcription factor BATF fine-tunes the naïve-to-effector differentiation of CD8 ⁺ T cells
	○ Sotaro Fujisawa ¹⁾ , Yamato Tanabe ¹⁾ , Toshikatsu Tamai ¹⁾ , Arisa Hojo ¹⁾ , Junko Kurachi ¹⁾ , Miki Koura ¹⁾ , Yusuke Miyanari ²⁾ , Satoshi Ueha ³⁾ , Makoto Kurachi ¹⁾
	¹⁾ Department of Molecular genetics, Graduate School of Medical Sciences, Kanazawa University, ²⁾ WPI Nano Life Science Institute, Kanazawa University, ³⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science
WS24-22-P	N-myristoylated lipopeptide-specific T cell development independently of TAP transporters
	O Hiromu Suzuki ^{1,2)} , Daisuke Morita ^{1,2)} Dilaboratory of Cell Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾ Laboratory of Cell Regulation and Molecular Network, Graduate School of Biostudies, Kyoto University
WS24-23-P	A novel mycobacterial lipid-specific T cell subset commonly present in humans
	○ Yuki Sakai ^{1,2)} , Nagatoshi Fujiwara ³⁾ , Takashi Yoshiyama ⁴⁾ , Yoshihiko Hoshino ⁵⁾ , Sho Yamasaki ^{1,2)} ¹¹Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, ²¹Laboratory of Molecular Immunology, Immunology, Frontier Research Center (iFReC), Osaka University, Osaka, Japan, ³¹Department of Food and Nutrition, Faculty of Contemporary Human Life Science, Tezukayama University, Nara, Japan, ⁴¹Fukujuji Hospital, Japan Anti-Tuberculosis Association, Tokyo, Japan, ⁵¹Department of Mycobacteriology, Leprosy Research Center, National Institute of Infectious Diseases, Tokyo, Japan
WS24-24-O/P	Unique structural basis of the recognition of bulky mycobacterial glycolipid by a novel CD1-restricted TCR
	Minori Asa ^{1,2)} , Yuki Sakai ^{1,2)} , Wakana Kusuhara ^{1,2)} , Sho Yamasaki ^{1,2)} Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, ² Laboratory of Molecular Immunology, Immunology Frontier Research Center (iFReC), Osaka University
WS24-25-P	Development of damage less detachment technique of target cells from magnetically-labeled cells in magnetic cell separation
	Ryutaro Imamura, Misaki Suzuki, Norihiro Yoshizaki, Tomoyuki Ohtake NOF Corporation
WS24-26-P	Method for detection of antigen-specific T cell using imaging flow cytometry
	Toyoko Katayama ¹⁾ , Yoshiki Shirakata ¹⁾ , Naoko Ikuta ²⁾ , Masaki Tajima ^{2,3)} , Tasuku Honjo ⁴⁾ , Akio Ohta ²⁾ , Hitoshi Uga ¹⁾ Toentral Research Laboratories, Sysmex Corporation, Kobe, Japan, Department of Immunology, Foundation for Biomedical Research and Innovation at Kobe, Kobe, Japan, Dintegrated High-Order Regulatory Systems Division, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, Kyoto, Japan, Department of Immunology and Genomic Medicine, Center for Cancer Immunotherapy and Immunobiology, Graduate School of Medicine, Kyoto University, Kyoto, Japan

WS24-27-P

Perturbations in SARS-CoV-2-specific T cells and their receptors following infection and vaccination in Long COVID patients

○ Louise Rowntree¹⁾, Oanh Nguyen¹⁾, Wuji Zhang¹⁾, Jan Petersen²⁾, Lukasz Kedzierski¹⁾, Carolien van de Sandt¹⁾, Irani Thevarajan³⁾, Jamie Rossjohn²⁾, Katherine Kedzierska¹⁾

¹⁾Department of Microbiology and Immunology, University of Melbourne, at the Peter Doherty Institute for Infection and Immunity, Melbourne, Victoria, Australia, ²⁾Department of Biochemistry and Molecular Biology, Biomedicine Discovery Institute, Monash University, Clayton, Victoria, Australia, ³⁾Department of Infectious Diseases and Victorian Infectious Diseases Services, Peter Doherty Institute, University of Melbourne and Roval Melbourne Hospital. Melbourne. Victoria. Australia

WS24-28-P

Potent antigen-specific T-cell responses by saRNA vaccine expressing membrane-anchored RBD against SARS-CoV-2

○ Takuto Nogimori¹⁾, Mai Komori²⁾, Yuji Masuta¹⁾, Hirotaka Ode³⁾, Tomokazu Tamura⁴⁾, Rigel Suzuki⁴⁾, Kenta Matsuda²⁾, Takasuke Fukuhara⁴⁾, Yasumasa Iwatani³⁾, Wataru Akahata²⁾, Takuya Yamamoto^{1,5,6)}

¹⁾Laboratory of Precision Immunology, Center for Intractable Diseases and ImmunoGenomics, National Institutes of Biomedical Innovation, Health, and Nutrition, ²⁾VLP Therapeutics, Inc, ³⁾Clinical Research Center, National Hospital Organization Nagoya Medical Center, ⁴⁾Department of Microbiology and Immunology, Faculty of Medicine, Hokkaido University, ⁵⁾Laboratory of Aging and Immune Regulation, Graduate School of Pharmaceutical Sciences. ⁶⁾Department of Virology and Immunology, Graduate School of Medicine

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WS25 Mucosal-skin immunity2

WS25-01-O/P

TRPV1⁺ sensory neuron enhances dendritic cell migration to lymph nodes by a CGRP-RAMP1 axis in contact hypersensitivity

○ Masafumi Yamanaka¹⁾, Otagiri Tomoki¹⁾, Daisuke Kamako¹⁾, Kohta Kurohane¹⁾, Michio Tomura²⁾, Gyohei Egawa³⁾, Kenji Kabashima³⁾, Eiji Umemoto¹⁾

¹⁾Laboratory of Microbiology and Immunology, School of Pharmaceutical Sciences, University of Shizuoka, ²⁾Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, ³⁾Department of Dermatology, Kyoto University Graduate School of Medicine

WS25-02-O/P

Role of cutaneous free fatty acids in the pathogenesis of acne vulgaris

○ Takashi Sugihira^{1,2,3)}, Seitaro Nakagawa^{1,3)}, Manabu Fujimoto³⁾, Yumi Matsuika-Nakamura^{1,3,4)}

¹⁾Department of Cutaneous Immunology and Microbiology, Graduate School of Medicine, Osaka University, ²⁾Basic Research Development Division, Rohto Pharmaceutical Co., Ltd., ³⁾Department of Dermatology, Graduate School of Medicine, Osaka University, ⁴⁾Cutaneous Allergy and Host Defense, Immunology Frontier Research Center, Osaka University

WS25-03-O/P

Analyses of CD8⁺ gd T cells observed in mouse psoriasis model with imiguimod application

O Himawari Matsunaga, Koichi Sudo, Kazuhiko Takahara

Laboratory of Immunobiology, Graduate school of Biostudies, Kyoto University

WS25-04-O/P

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

○ Sonoko Takahashi¹⁾, Sotaro Ochiai^{1,2)}, Jianshi Jin³⁾, Noriko Takahashi¹⁾, Susumu Toshima^{1,4)}, Harumichi Ishigame^{1,5)}, Kenji Kabashima⁶⁾, Masato Kubo^{1,7)}, Manabu Nakayama⁸⁾, Katsuyuki Shiroguchi⁹⁾, Takaharu Okada^{1,10)}

¹⁾RIKEN IMS, ²⁾Malaghan Institute of Medical Research, ³⁾Chinese Academy of Sciences, ⁴⁾Keio University, ⁵⁾Kansai Medical University, ⁶⁾Kyoto University, ⁷⁾Tokyo University of Science, ⁵⁾Kazusa DNA Research Institute, ⁹⁾RIKEN BDR, ¹⁰⁾Yokohama City University

WS25-05-O/P

Deubiquitinase OTUD3 prevents progression of ulcerative colitis by modulating microbiota-mediated STING activation in intestinal fibroblasts

O Bo Li¹⁾, Taiki Sakaguchi¹⁾, Hisako Kayama^{1,2,3)}, Kiyoshi Takeda^{1,2,4)}

¹⁾Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²⁾WPI Immunology Frontier Research Center, Osaka University, ³⁾Institute for Advanced Co-Creation Studies, Osaka University, ⁴⁾Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives, Osaka University

WS25-06-O/P

Microbiota-dependent activation of CD4⁺ T cells induces CTLA-4 blockade-associated colitis via Fcγ receptors

Bernard Lo, Gabriel Núñez
 University of Michigan

WS25-07-O/P	Bacterial induction of B cell senescence promotes age-related changes in the gut microbiota					
	○ Shimpei Kawamoto ¹⁾ , Ken Uemura ¹⁾ , Nozomi Hori ¹⁾ , Kazutaka Katoh ¹⁾ , Takahiro Adachi ²⁾ , Naoko Ohtani ³⁾ , Standley M. Daron ^{1,4,5)} , Wataru Suda ⁶⁾ , Shinji Fukuda ^{7,8,9,10)} , Eiji Hara ^{1,4,5)}					
	¹⁾ Research Institute for Microbial Diseases, Osaka University, ²⁾ Medical Research Institute, Tokyo Medical and Dental University, ³⁾ Graduate School of Medicine, Osaka Metropolitan University, ⁴⁾ Immunology Frontier Research Center, Osaka University, ⁵⁾ Center for Infectious Disease Education and Research, Osaka University, ⁶⁾ RIKEN Center for Integrative Medical Sciences, ⁷⁾ Institute for Advanced Biosciences, Keio University, ⁶⁾ Kanagawa Institute of Industrial Science and Technology, ⁹⁾ Transborder Medical Research Center, University of Tsukuba, ¹⁰⁾ Juntendo University Graduate School of Medicine					
WS25-08-O/P	Commensal microorganisms cooperatively promote polyreactive S-IgA production by inducing follicular					
	helper T cells in Peyer's patch Kisara Hattori, Daisuke Takahashi, Koji Hase					
	Graduate School of Pharmaceutical Science, Keio University					
WS25-09-O/P	Disentangling the Connection between Oral and Gut During the Intestinal Tumorigenesis					
	Sho Kitamoto					
	WPI Immunology Frontier Research Center Osaka University					
WS25-10-P	Roles of tumor necrosis factor-like ligand 1A in γδT cell activation and psoriasis pathogenesis (Nensuke Takada ¹⁾ , Shanqyi Wanq ²⁾ , Mina Kozai ¹⁾ , Md. Zahir Uddin Rubel ²⁾ , Masaya Hiraishi ²⁾ , Osamu Ichii ²⁾ ,					
	Mutsumi Inaba ²⁾ , Kazuhiro Matsuo ¹⁾					
	¹⁾ Institute for Vaccine Research & Development, Hokkaido University, ²⁾ Faculty of Veterinary Medicine, Hokkaido University					
WS25-11-P	Dermatitis of the GATA3 mutant mice					
	 Shoichiro Miyatake Department of Immunology Graduate School of Environmental Health Sciences, Azabu University 					
WS25-12-P	Activation of enteric neurons by intestinal inflammation					
	○ Masahiro Okamoto ¹⁾ , Lisa Fujimura ²⁾ , Takashi Fumita ⁴⁾ , Yoshio Katsumata ^{3,4)} , Akemi Sakamoto ^{2,3)} ,					
	Masahiko Hatano ^{2,3)} ¹⁾ School of Medicine, Chiba University, ²⁾ Biomedical Research Center, Chiba University, ³⁾ Department of Biomedical Science, Graduate School of Medicine, Chiba University, ⁴⁾ Department of Pediatric Surgery, Graduate School of Medicine, Chiba University					
WS25-13-P	3D-visualization of sublingual immune cell clusters with sensory neurons					
	Mayuko Hashimoto ¹⁾ , Tetsushi Hoshida ²⁾ , Yutaka Kusumoto ¹⁾ , Atsushi Miyawaki ²⁾ , Michio Tomura ¹⁾ Ilaboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, Daboratory for Cell Function Dynamics, RIKEN Center for Brain Science					
WS25-14-P	Withdrawn					
WS25-15-P	Involvement of innate lymphoid cells in the starvation-induced ketogenesis					
VVJ2J-1J-1	Takuma Misawa, Shigeo Koyasu					
	RIKEN, Center for Integrative Medical Sciences, Laboratory for Immune Cell Systems					
WS25-16-P	Water restriction disputes the gastrointestinal homeostasis					
	Ckensuke Sato ^{1,2,3} , Joe Inoue ⁴ , Yun-Gi Kim ²) ¹⁾ Institute for Advanced Biosciences, Keio University, ² Research Center for Drug Discovery, Faculty of Pharmacy and Graduate School of Pharmaceutical Sciences, Keio University, ³ Graduate School of Media and Governance, Keio University, ⁴ Department of Biochemistry, Faculty of Pharmacy and Graduate School of Pharmaceutical Sciences, Keio University					
WS25-17-P	Adherent-invasive E. coli induced specific IgA limits pathobiont localization to the epithelial niche in the					
	gut					
	Rika Tanaka ¹ , Jin Imai ² , Hitoshi Tsugawa ³ , Nobuhiko Kamada ⁴ , Katsuto Hozumi ¹ Dept. Immunol., Div. Infect. Host Def., Tokai Univ. Sch. Med., Department of Clinical Health Science, Tokai University School of Medicine, Isehara, Japan, Transkingdom Signaling Research Unit, Division of Host Defense Mechanism, Tokai University School of Medicine, Isehara, Japan, Dept. Internal Med., Div. Gastroenterol., University of Michigan					
WS25-18-P	Milk-derived immune factors affect intestinal immune development in infants					
	○ 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

WS25-19-P	Nasal immunization with <i>Streptococcus mutans</i> membrane vesicles and nano-size hydroxyapatite induced mucosal IgA Ab responses
	O Tomomi Hashizume-Takizawa ¹⁾ , Chihiro Mochizuki ²⁾ , Yuki Sakai ²⁾ , Koichi Nakamura ²⁾ , Hidenobu Senpuku ¹⁾ Dept. Microbiol. Immunol., Nihon Univ. Sch. Dent. at Matsudo, ² BIOAPATITE, INC.
WS25-20-P	Elucidation of chemical structures and physicochemical properties related to mucosal adjuvanticity of sugar-based surfactants –second report–
	 Naoto Yoshino, Takashi Odagiri, Yasushi Muraki Division of Infectious Diseases and Immunology, Department of Microbiology, School of Medicine, Iwate Medical University
WS25-21-P	APL downregulation in T cells in an animal model of chronic colitis
	○ Mone Fushimi ^{1,2)} , Tadahiko Inoue ²⁾ , Daiki Yamada ²⁾ , Yudai Kojima ²⁾ , Akinori Hosoya ²⁾ , Taro Watabe ²⁾ , Mamoru Watanabe ²⁾ , Ryuichi Okamoto ²⁾ , Takashi Nagaishi ²⁾
	¹⁾ Tokyo Univ. Science, Dept. Applied Chemistry, ²⁾ Tokyo Medical and Dental Univ., Dept.Gastroenterology
WS25-22-P	The UDP-glucose-P2Y14 receptor pathway exaggerates eosinophil-mediated colitis Li Liu ¹ , Hisako Kayama ^{1,2,3} , Kiyoshi Takeda ^{1,2,4}
	¹⁾ Laboratory of Immune Regulation, Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, ²⁾ WPI Immunology Frontier Research Center, Osaka University, ³⁾ Institute for Advanced Co-Creation Studies, Osaka University, ⁴⁾ Integrated Frontier Research for Medical Science Division, Institute for Open and Transdisciplinary Research Initiatives, Osaka University
WS25-23-P	An inflammatory bowel disease-associated SNP increases local thyroglobulin expression to develop inflammation in Miniature Dachshunds
	Yong Bin Teoh ¹⁾ , Jing-Jing Jiang ¹⁾ , \bigcirc Takeshi Yamasaki ²⁾ , Noriyuki Nagata ¹⁾ , Toshiki Sugawara ¹⁾ , Rie Hasebe ²⁾ , Hiroshi Ohta ⁴⁾ , Noboru Sasaki ¹⁾ , Nozomu Yokoyama ¹⁾ , Kensuke Nakamura ¹⁾ , Mitsuyoshi Takiguchi ¹⁾ , Masaaki Murakami ^{1,2,3)} ¹⁾ Hokkaido University, ²⁾ National Institute for Physiological Sciences, ³⁾ National Institute for Quantum and Radiological Science and Technology, ⁴⁾ Rakuno Gakuen University
January 19	
WS26 Human	immunology and immunogenetics
WS26-01-O/P	CD62L expression marks SARS-CoV-2 memory B-cell subset with preference for neutralizing epitopes
	○ Taishi Onodera ¹⁾ , Yu Adachi ¹⁾ , Ryutaro Kotaki ¹⁾ , Takeshi Inoue ²⁾ , Ryo Shinnakasu ²⁾ , Saya Moriyama ¹⁾ , Takayuki Matsumura ¹⁾ , Masanori Isogawa ¹⁾ , Masaharu Shinkai ⁵⁾ , Tomohiro Kurosaki ^{2,3)} , Kazuo Yamashita ⁴⁾ , Yoshimasa Takahashi ¹⁾
	¹⁾ Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾ Center for Infectious Diseases Education and Research, Osaka University; Osaka, Japan, ³⁾ Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, Osaka University; Osaka, Japan., ⁴⁾ KOTAI Biotechnologies, Inc., ⁵⁾ Tokyo Shinagawa Hospital; Tokyo, Japan
WS26-02-O/P	CD8 ⁺ T-cell memory induced by SARS-CoV-2 mRNA vaccination is maintained by clonal replenishment Satoshi Ueha ¹ , Hiroyasu Aoki ¹ , Masahiro Kitabatake ² , Shigeyuki Shichino ¹ , Atsushi Hara ² , Noriko Ouji-Sageshima ² , Toshihiro Ito ² , Kouji Matsushima ¹
	¹⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science, ²⁾ Department of Immunology, Nara Medical University

Analysis of T cell diversity and clonality by single-cell sequencing and epitope mapping in phase 1/2 priming and booster study of COVID-19 vaccine S-268019-b

○ Naomi M Seki¹¹, Xiuyuan Lu²¹, Masaya Fujitani¹¹, Yujiro Kidani¹¹, Satoru Ishida¹¹, Risa Yokokawa³, Takuhiro Sonoyama⁴, Mari Ariyasu³³, Shinya Omoto¹¹, Sho Yamasaki²¹

WS26-03-P

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WS26-04-P

Single-cell transcriptome and repertoire analysis of antigen specific B cells in phase 1/2 priming and booster study of COVID-19 vaccine S-268019-b

○ Masaya Fujitani¹⁾, Ryo Shinnakasu²⁾, Yujiro Kidani¹⁾, Naomi M Seki¹⁾, Satoru Ishida¹⁾, Takuhiro Sonoyama³⁾, Mari Ariyasu⁴⁾, Shinya Omoto¹⁾, Tomohiro Kurosaki²⁾

¹⁾Laboratory for Bio-Drug Discovery, Biopharmaceutical Research Division, Shionogi & Co., Ltd., Osaka, Japan, ²⁾Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, ³⁾Medical Science Department, Drug Development and Regulatory Science Division, Shionogi & Co., Ltd., Osaka, Japan, ⁴⁾Project Management Department, Drug Development and Regulatory Science Division, Shionogi & Co., Ltd., Osaka, Japan

WS26-05-P

Analysis of antigen-specific T and B cell responses in elderly subjects in booster immunization of COVID-19 vaccine S-268019-b

○ Yujiro Kidani¹¹, Masaya Fujitani¹¹, Naomi M Seki¹¹, Kumiko Goto¹¹, Natsumi Susai¹¹, Ken Yoshihara¹¹, Risa Yokokawa²¹, Takuhiro Sonoyama³¹, Mari Ariyasu²¹, Satoru Ishida¹¹, Shinya Omoto¹)

¹⁾Laboratory for Bio-Drug Discovery, Biopharmaceutical Research Division, Shionogi & Co., Ltd., Osaka, Japan, ²⁾Project Management Department, Drug Development and Regulatory Science Division, Shionogi & Co., Ltd., Osaka, Japan, ³⁾Medical Science Department, Drug Development and Regulatory Science Division, Shionogi & Co., Ltd., Osaka, Japan

WS26-06-P

IFN-α Production Tests: What Can They Tell Us?

Louis Pasteur Center for Medical Research

WS26-07-P

The effect of quercetin glycoside oral administration on mRNA vaccination in the potentially high-risk group of SARS-CoV-2 infection

Ayae Nishiyama¹⁾, Shokichi Takahama¹⁾, Aiko Tanaka²⁾, Hiroyo Kagami-Katsuyama²⁾, Kouji Satoh²⁾, Keiichi Abe^{3,1)}, Jun Nishihira²⁾, Takuya Yamamoto¹⁾

¹⁾National Institutes of Biomedical Innovation, Health and Nutrition, ²⁾Hokkaido Information Univ., ³⁾The Research Foundation for Microbial Diseases of Osaka Univ.

WS26-08-P

Oral vaccination using Recombinant *Bacillus subtilis* Spores Expressing SARS-CoV-2 Spike Protein with Chinese Herbal Medicines

O Ben Chung-Lap Chan¹⁾, Peiting Li¹⁾, Miranda Sin-Man Tsang^{1,2)}, Johnny Chun-Chau Sung³⁾, Keith Wai-Yeung Kwong³⁾, Sharon Sze-Man Hon⁴⁾, Clara Bik-San Lau¹⁾, Ping-Chung Leung¹⁾, Chun-Kwok Wong^{1,4,5)}

¹⁾Institute of Chinese Medicine and State Key Laboratory of Research on Bioactivities and Clinical Applications of Medicinal Plants, The Chinese

University of Hong Kong, Hong Kong, China, ²⁾China-Australia International Research Centre for Chinese Medicine, School of Health and Biomedical Sciences, STEM College, RMIT University, Bundoora, Victoria, Australia, ³⁾Research Department, DreamTec Cytokines Limited, Hong Kong, China, ⁴⁾Department of Chemical Pathology, The Chinese University of Hong Kong, Prince of Wales Hospital, Hong Kong, ⁵⁾Li Dak Sum Yip Yio Chin R & D Centre for Chinese Medicine, The Chinese University of Hong Kong, Hong Kong, China

WS26-09-O/P

Lethal Cytokine Storm and Microthrombosis Post-mRNA Booster Vaccination

○ Yuki Masuo^{1,2)}, Hiroyuki Yoshitomi¹⁾, Takao Hashiguchi^{2,4)}, Sachiko Minamiguchi⁵⁾, Takamoto Hirota⁶⁾, Kinta Hatakeyama⁷⁾, Yoshihiko Ikeda⁷⁾, Keiko Ohta-Ogo⁷⁾, Masanori Matsumoto⁸⁾, Tomoya Hayashi⁹⁾, Ken J. Ishii⁹⁾, Hideki Ueno^{1,2,3)}

¹⁾Department of Immunology, Graduate School of Medicine, Kyoto University, ²⁾Kyoto University Immunomonitoring Center, Kyoto University, ³⁾ASHBi Institute for the Advanced Study of Human Biology, Kyoto University, ⁴⁾Laboratory of Medical Virology, Institute for Life and Medical Sciences, Kyoto University, ⁵⁾Department of Diagnostic Pathology, Kyoto University Hospital, ⁵⁾Department of Cardiology, Osaka Saiseikai Noe Hospital, ⁷⁾Department of Pathology, National Cerebral and Cardiovascular Center Hospital, ⁸⁾Department of Hematolog, Nara Medical University, ⁹⁾Division of Vaccine Science, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo

WS26-10-O/P

Profound increase of a-synuclein-specific Th17 responses in Parkinson's disease is associated with adjuvant effects of a-synuclein aggregates to dendritic cells

○ Emi Nishii¹⁾, Soichiro Yoshikawa¹⁾, Asako Chiba¹⁾, Ayami Okuzumi²⁾, Shin-ichi Ueno²⁾, Yasunobu Hoshino²⁾, Taku Hatano²⁾, Nobutaka Hattori²⁾, Sachiko Miyake¹⁾

¹⁾Department of Immunology Juntendo University Faculty of Medicine, ²⁾Department of Neurology Juntendo University Faculty of Medicine

WS26-11-O/P

Quantification of the escape from X chromosome inactivation with the million cell-scale human blood single-cell RNA-seq datasets reveals heterogeneity of escape across immune cells

○ Yoshihiko Tomofuji^{1,3)}, Ryuya Edahiro^{1,3)}, Yuya Shirai¹⁾, Kyuto Sonehara^{1,2,3)}, Qingbo Wang^{1,2,3)}, Atsushi Kumanogoh¹⁾, Yukinori Okada^{1,2,3)}

¹⁾Osaka University Graduate School of Medicine, ²⁾Graduate School of Medicine, The University of Tokyo, ³⁾RIKEN Center for Integrative Medical Science

WS26-12-O/P	A gene expression regulatory variant in <i>CD58</i> confers susceptibility to human autoimmune diseases
	○ Yuki Hitomi¹¹, Yoshihiro Aiba²¹, Minoru Nakamura².³¹ ¹¹Department of Human Genetics, Research Institute, National Center for Global Health and Medicine, ²¹Clinical Research Center, National Hospital Organization (NHO) Nagasaki Medical Center, ³¹Department of Hepatology, Nagasaki University Graduate School of Biomedical Sciences
WS26-13-O/P	A simultaneous examination of transcriptome, mucin protein expression, and histology in Japanese
	childhood ulcerative colitis patients
	○ Kosuke Kashiwagi ^{1,2)} , Tomoaki Ando ¹⁾ , Masanori Toda ^{1,2)} , Ayako Kaitani ¹⁾ , Kumi Izawa ¹⁾ , Keisuke Jimbo ²⁾ , Takahiro Kudo ²⁾ , Toshiaki Shimizu ^{1,2)} , Jiro Kitaura ¹⁾
	¹⁾ Atopy (Allergy) Research Center, Juntendo University Graduate School of Medicine, ²⁾ Department of Pediatrics, Juntendo University Graduate School of Medicine
WS26-14-P	Identification and characterization of the novel fusion gene LILRB3-LILRB5 by long-read sequencing technology
	○ Kouyuki Hirayasu ^{1,2,3)} , Seik-Soon Khor ⁴⁾ , Yosuke Kawai ⁴⁾ , Gen Hasegawa ²⁾ , Katsushi Tokunaga ⁴⁾ , Rikinari Hanayama ^{1,2,5)} , Masao Nagasaki ⁶⁾
	¹⁾ Advanced Preventive Medical Sciences Research Center, Kanazawa University, ²⁾ Department of Immunology, Graduate School of Medical Sciences, Kanazawa University, ³⁾ Department of Evolutionary Immunology, Graduate School of Advanced Preventive Medical Sciences, Kanazawa University, ⁴⁾ Genome Medical Science Project, National Center for Global Health and Medicine, ⁵⁾ WPI Nano Life Science Institute (NanoLSI), Kanazawa University, ⁵⁾ Division of Biomedical Information Analysis, Medical Research Center for High Depth Omics, Medical Institute of Bioregulation, Kyushu University
WS26-15-P	Expression of programmed cell death 1 is inversely correlated with the pathological cellular density of infiltrating CD8+ T cells in alopecia areata
	Akiyoshi Senda, Toshiaki Kogame, Takashi Nomura, Satoru Yonekura, Satoshi Nakamizo, Kenji Kabashima Department of Dermatology, Kyoto University Graduate School of Medicine
WS26-16-P	Angiopoietin-like 4 is a critical mediator for fibroblast activation in pulmonary fibrosis
	Masahiro Kitabatake ¹⁾ , Noriko Ouji-Sageshima ¹⁾ , Atsushi Hara ¹⁾ , Ryutaro Furukawa ¹⁾ , Akihisa Oda ²⁾ , Shigeyuki Shichino ³⁾ , Satoshi Ueha ³⁾ , Kouji Matsushima ³⁾ , Toshihiro Ito ¹⁾ Department of Immunology, Nara Medical University, ²⁾ Department of Pediatrics, Nara Medical University, ³⁾ Division of Molecular Regulation of Inflammatory and Immune Diseases, Research Institute for Biomedical Sciences, Tokyo University of Science
WS26-17-P	Protein S overexpression exacerbates high-fat diet-induced fatty liver
	Taro Yasuma ^{1,2)} , Atsuro Takeshita ^{1,2)} , Yuko Okano ^{1,2)} , Chisa Inoue ^{1,2)} , Corina Gabazza ¹⁾ , Valeria Fridman ¹⁾ , Suphachai Tharavecharak ¹⁾ , Masaaki Toda ¹⁾ , Kota Nishihama ²⁾ , Yutaka Yano ¹⁾ , Esteban Gabazza ¹⁾ ¹⁾ Department of Immunology, Mie University Graduate School of Medicine, ²⁾ Department of Diabetes and Endocrinology, Mie University Graduate School of Medicine
WS26-18-P	The mild heat stimulation through the specific points of the skin surface changes human immunity and systemic constancy
	Takuma Nakajima, Astuko Ozaki Shimada, Keiso Ishimaru, Kenji Ryotokuji Ryotokuji University
WS26-19-P	A novel macrophage population exacerbates intestinal fibrosis via a SAA-Th17-dependent mechanism Junya Tsunoda ^{1,2)} , Yoshiaki Takada ¹⁾ , Ichiro Mizushima ¹⁾ , Kentaro Iwata ¹⁾ , Yuta Kaieda ¹⁾ , Yuya Hagihara ¹⁾ , Shinya Sugimoto ¹⁾ , Rino Ishihara ¹⁾ , Yohei Mikami ¹⁾ , Takanori Kanai ¹⁾ Division of Gastroenterology and Hepatology Department of Internal Medicine, Keio University School of Medicine, ²⁾ Department of Surgery,
January 19	Keio University School of Medicine
WS27 Hemato	opolesis and immune environment
WS27-01-O/P	Evolutionary anlage of T cells and thymus in invertebrate ancestors
	Yosuke Nagahata ¹ , Ryota Kaitani ¹ , Izumi Oda ² , Yutaka Satou ² , Hiroshi Kawamoto ¹ Daboratory of Immunology, Institute for Life and Medical Sciences, Kyoto University, Department of Zoology, Graduate School of Science, Kyoto University

WS27-02-P	Distinct bidirectional regulation of integrins by Rap1, talin1 and kindlin-3 in T cells under shear flow Yuji Kamioka ¹⁾ , Yoshihiro Ueda ¹⁾ , Naoyuki Kondo ¹⁾ , Tatsuo Kinashi ²⁾ Department of Molecular Genetics, Institute of Biomedical Science, Kansai Medical University, ²⁾ Kansai Medical University
WS27-03-P	Development of two mouse strains conditionally expressing bright luciferases with distinct emission spectra as new tools for in vivo imaging Toshiaki Nakashiba ¹⁾ , Katsunori Ogoh ²⁾ , Satoshi Iwano ³⁾ , Takashi Sugiyama ⁴⁾ , Saori Mizuno-lijima ¹⁾ , Kenichi Nakashima ¹⁾ , Seiya Mizuno ⁵⁾ , Fumihiro Sugiyama ⁵⁾ , Atsushi Yoshiki ¹⁾ , Atsushi Miyawaki ³⁾ , Kuniya Abe ¹⁾ PRIKEN BRC, ²⁾ Olympus Corporation, ³⁾ RIKEN CBS, ⁴ Evident Corporation, ⁵⁾ University of Tsukuba
WS27-04-P	Physical and functional interaction among <i>Irf8</i> enhancers during dendritic cell differentiation Takaya Yamasaki, Akira Nishiyama, Tomohiko Tamura Department of Immunology, Yokohama City University Graduate School of Medicine
WS27-05-O/P	Single cell genomics revealed critical molecules affecting cell fate of human stem/progenitor cells Makoto Iwasaki ^{1,2)} , Luginbuhehl Joachim ¹⁾ , Yoriko Saito ¹⁾ , Ari Itoh-Nakadai ¹⁾ , Leonard Shultz ³⁾ , Akifumi Takaori-Kondo ²⁾ , Jay Shin ¹⁾ , Fumihiko Ishikawa ¹⁾ RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, ²⁾ Department of Hematology and Oncology, Kyoto University, Kyoto, Japan, ³⁾ The Jackson Laboratory
WS27-06-P	Revised model of interferon regulatory factor 8 (IRF8)-dose dependent myeloid cell differentiation Ohiroshi Okuda ¹⁾ , Juri Ichikawa ¹⁾ , Takaya Yamasaki ¹⁾ , Hiroaki Kume ¹⁾ , Kenichi Asano ²⁾ , Tomohiko Tamura ¹⁾ Department of Immunology, Yokohama City University Graduate School of Medicine, ²⁾ Lab. of Immune Regulation, Tokyo University of Pharmacy and Life Sciences
WS27-07-O/P	Manipulation of HSPC lineage priming via antisense-oligonucleotide-mediated expression of Nfkbiz Shinnosuke Yamada ¹⁾ , Takuya Uehata ¹⁾ , Kazunori Toratani ¹⁾ , Daisuke Ori ²⁾ , Osamu Takeuchi ¹⁾ Department of Medical Chemistry, Graduate School of Medicine, Kyoto University, ²⁾ Laboratory of Molecular Immunobiology, Graduate School of Biological Sciences, Nara Institute of Science and Technology
WS27-08-O/P	Interaction of Bcl11b with Cxxc1 is required for the establishment of the chromatin structure in thymocytes Kazuki Okuyama, Ichiro Taniuchi Lab for Transcriptional Regulation, RIKEN IMS
WS27-09-O/P	Polycomb group proteins PCGF2 and PCGF4 work together during erythrocyte and megakaryocyte differentiation Mayumi Hirakawa, Yutaro Ohashi, Mizuki Sakihara, Tomokatsu Ikawa Tokyo University of Science
WS27-10-P	Dissecting the heterogenous keloid microenvironment with spatial technologies Yingrou Tan ^{1,2)} , Immanuel Weng Han Kwok ²⁾ , Jinmiao Chen ²⁾ , Lai Guan Ng ³⁾ , Hong Liang Tey ¹⁾ National Skin Centre, ²⁾ Singapore Immunology Network, A*STAR, Singapore, ³⁾ Shanghai Immune Therapy Institute, Shanghai Jiao Tong University School of Medicine, Renji Hospital, Shanghai, China
WS27-11-P	Accumulation and presentation of lymph-borne antigens in the lymph node medulla for rapid T-cell response Tomoya Katakai, Madoka Ozawa Dept. Immunology, Niigata University Graduate School of Medical and Dental Sciences
WS27-12-O/P	Semaphorin 6D maintains amygdalar neural integrity to coordinate emotional, metabolic and inflammatory outputs Mayuko Izumi, Yoshimitsu Nakanishi, Atsushi Kumanogoh Department of Respiratory Medicine and Clinical Immunology, Graduate School of medicine, Osaka University

DNAM-1 immunoreceptor protects mice from concanavalin A-induced acute liver injury by reducing WS27-13-O/P neutrophil infiltration O Soichi Matsuo^{1,2)}, Tsukasa Nabekura^{3,4)}, Kenshiro Matsuda^{3,4)}, Kazuko Shibuya^{1,4)}, Akira Shibuya^{1,3,4)} ¹⁾Department of Immunology, Faculty of Medicine, University of Tsukuba, Japan. ²⁾Doctoral Program in Medical Sciences, Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan, 3/Life Science Center for Survival Dynamics, Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan, 4R&D Center for Innovative Drug Discovery, University of Tsukuba, Japan Bone marrow microenvironment for NK cell differentiation and localization WS27-14-O/P ○ Shinya Abe¹⁾, Akihiro Shimba¹⁾, Shizue Tani-ichi¹⁾, Takashi Nagasawa^{2,3,4)}, Koichi Ikuta¹⁾ ¹⁾Laboratory of Immune Regulation, Institute for Life and Medical Sciences, Kyoto University, ²⁾Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Frontier Biosciences, Osaka University, 3) Laboratory of Stem Cell Biology and Developmental Immunology, Graduate School of Medicine, Osaka University, 4)Laboratory of Stem Cell Biology and Developmental Immunology, WPI Immunology Frontier Research Center, Osaka University January 19 **WS28** B cell (2)- fight against infectious diseases WS28-01-P The expression level of TRAF5 negatively impacts the TLR signaling Mitsuki Azuma¹⁾, Hiroaki Saito¹⁾, Tomomi Wakaizumi¹⁾, Kovo Iwatani¹⁾, Yusuke Ozawa¹⁾, Masashi Morita¹⁾ Mari Kuniishi-Hikosaka11, Naoto Ishii21, Takanori So11 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 WS28-02-P Type I interferon determines the fate of TLR9-stimulatedfollicular B cells to plasma cell differentiation O Ryota Higuchi¹⁾, Kaori Tanaka²⁾, Yasuyuki Ohkawa²⁾, Yoshihiro Baba¹⁾ ¹⁾Division of Immunology and Genome Biology. Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, ²⁾Division of Transcriptomics, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan Essential function of EMC1(ER membrane complex subunit1) in Ca²⁺ influx and biogenesis of chemokine WS28-03-P receptors in B cell ○ Kazuhiko Kawata¹⁾, Chie Kikutake²⁾, Mikita Suyama²⁾, Yoshihiro Baba¹⁾ ¹⁾Medical Institute of Bioregulation, Division of Immunology and Genome Biology, Kyushu University, Japan, ²⁾Medical Institute of Bioregulation, Bioinformatics, Kyushu University, Japan B cell receptor signaling-mediated activation in lymphoid tissues is regulated by the long isoform of WS28-04-P CEACAM1 ○ Tadahiko Inoue¹⁾, Mone Fushimi^{1,2)}, Naoya Tsugawa¹⁾, Daiki Yamada¹⁾, Taro Watabe¹⁾, Mamoru Watanabe¹⁾ Ryuichi Okamoto¹⁾. Takahiro Adachi³⁾. Richard S. Blumberg⁴⁾. Takashi Nagaishi¹⁾ ¹⁾Department of Gastroenterology, Tokyo Medical and Dental University, ²⁾Department of Applied Chemistry, Tokyo University of Science, ³⁾Division of Precision Health, Medical Research Institute, Tokyo Medical and Dental University, ⁴⁾Gastroenterology Division, Brigham and Women's Hospital, Harvard Medical School

WS28-05-P LFA-1 is a novel sialic acid-mediated cis-ligand of CD22 that regulates B cell activation and adhesion

○ Hashadi Nadeesha Walakulu Gamage^{1,2,3)}, Amin Alborzian Deh Sheikh²⁾, Nobutoshi Ito¹⁾, Masatake Asano³⁾, 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

Identification and characterization of complexin 2-expressing innate-like B cells

○ 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

WS28-07-O/P The contribution of IL-9 receptors on peritoneal B cells in T cell-independent immune responses

O Mari Tenno, Takumi Umezu, Kei Kato, Daisuke Kitamura

WS28-06-P

Toyko University of Science, Research Institute of Biological Sciences (RIBS)

WS28-08-P	CD20 promotes BCR/TLR9 dependent cell proliferation by enhancing TLR9/IgM association 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
WS28-09-P	Arf1 regulates germinal center B cell differentiation in draining lymph nodes
	Yui Kotani ^{1,2)} , Mami Sumiyoshi ²⁾ , Madoka Ozawa ³⁾ , Tomoya Katakai ³⁾ , Satoshi Matsuda ²⁾ 1)Dept. Vasc. Phys., NCVC., ²⁾ Dept. Cell signaling, Ins. of Biomed. Sci., Kansai Medical Univ., ³⁾ Dept. Immunol., Niigata Univ. Grad. Sch. of Med. and Dent. Sci.
WS28-10-O/P	Deciphering antibody-antigen specificity by clustering complementarity determining regions
	O Dianita Susilo Saputri ¹⁾ , Hendra Saputra Ismanto ¹⁾ , Dendi Krisna Nugraha ¹⁾ , Zichang Xu ²⁾ , Yasuhiko Horiguchi ^{1,3)} , Shuhei Sakakibara ^{2,4)} , Daron Michaelangelo Standley ^{1,2,3)} ¹⁾ RIMD, Osaka Univ., ²⁾ IFReC, Osaka Univ., ³⁾ CiDER, Osaka Univ., ⁴⁾ Jikei Univ. of Health Care Sciences
WS28-11-O/P	Multimodal analysis of COVID-19, Bacterial Sepsis and mRNA vaccination cohorts reveals SARS-CoV2
W328-11-U/F	specific subpopulations of activated memory B-cells
	David G. Priest ¹⁾ , Janyerkye Tulyeu ²⁾ , Jonas Sondergaard ²⁾ , Yuki Togami ³⁾ , Yumi Mitsuyama ⁴⁾ , Shuhei Sakakibara ⁵⁾ , Takeshi Ebihara ³⁾ , Hisatake Matsumoto ³⁾ , Hiroshi Ogura ³⁾ , James B. Wing ^{1,2)} ¹⁾ Laboratory of Human Single Cell Immunology, iFReC, Osaka University, ²⁾ Human Single Cell Immunology Team, CiDER, Osaka University, ³⁾ Department of Traumatology and Acute Critical Medicine, Osaka University Graduate School of Medicine, ⁴⁾ Division of Trauma and Surgical Critical Care, Osaka General Medical Center, ⁵⁾ Laboratory of Immune Regulation, iFReC, Osaka University
WS28-12-O/P	Sequential exposure to different SARS-CoV-2 antigens induces broadly neutralizing antibodies in mice and humans
	Hitoshi Azuma ¹⁾ , Yohei Kawano ¹⁾ , Akifumi Higashiura ²⁾ , Yasuo Kitajima ¹⁾ , Shun Ohki ¹⁾ , Tomoharu Yasuda ¹⁾ Department of Immunology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, 734-8551, Japan, ²⁾ Department of Virology, Graduate School of Biomedical and Health Sciences, Hiroshima University, Hiroshima, 734-8551, Japan
WS28-13-O/P	Longitudinal profiling of humoral immune memory elicited by inactivated rabies virus vaccine
	Mizuki Fujisawa ^{1,2)} , Taishi Onodera ²⁾ , Michihito Sasaki ^{3,6)} , Yukari Itakura ⁶⁾ , Daisuke Kuroda ²⁾ , Kohei Yumoto ²⁾ , Chidchamai Kewcharoenwong ⁴⁾ , Arnone Nithichanon ⁴⁾ , Ganjana Lertmemongkolchai ⁴⁾ , Tadaki Suzuki ⁵⁾ , Hirofumi Sawa ^{6,7)} , Yoshimasa Takahashi ²⁾ ¹⁾ Department of Life Science and Medical Bioscience, Graduate School of Advanced Science and Engineering, Waseda University (TWIns), Japan, ²⁾ Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, Japan, ³⁾ Division of Molecular Pathobiology, International Institute for Zoonosis Control (IIZC), Hokkaido University, Japan, ⁴⁾ Department of Medical Technology, Faculty of Associated Medical Sciences, Chiang Mai University, Thailand, ⁵⁾ Department of Pathology, National Institute of Infectious Diseases, Japan, ⁶⁾ Institute for Vaccine Research and Development, Hokkaido University, Japan, ⁷⁾ One Health Research Center, Hokkaido University, Japan
WS28-14-O/P	Repeated exposure to SARS-CoV-2 Omicron antigens alleviates immunological imprinting and develops
	Omicron-specific B cells with phenotypically distinctive features
	O Ryutaro Kotaki ¹⁾ , Saya Moriyama ¹⁾ , Yu Adachi ¹⁾ , Eita Sasaki ¹⁾ , Kota Ishino ¹⁾ , Miwa Morikawa ²⁾ , Hiroaki Takei ²⁾ , Hidenori Takahashi ²⁾ , Masanori Isogawa ¹⁾ , Takayuki Matsumura ¹⁾ , Masaharu Shinkai ²⁾ , Yoshimasa Takahashi ¹⁾ ¹⁾ Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases, ²⁾ Tokyo Shinagawa Hospital
WS28-15-O/P	In silico evolution of SARS-CoV-2 antibodies in humans increases the resilience against emerging
	Omicron subvariants
	O Daisuke Kuroda, Saya Moriyama, Kohei Yumoto, Yu Adachi, Taishi Onodera, Yoshimasa Takahashi Research Center for Drug and Vaccine Development, National Institute of Infectious Diseases
WS28-16-O/P	The epigenetic modifier BMI-1 drives both protective and pathogenic B cell responses to malaria
	 Ke Wang¹, Francis Claessens¹, Kim Good-Jacobson², Ian Cockburn¹ Immunology and Infectious Disease Division, John Curtin School of Medical Research, the Australian National University, Canberra, ACT, Australia, ²Department of Biochemistry and Molecular Biology, Monash University, Clayton, Victoria, Australia

Awards Ceremony and Lectures

Awards Ceremony and Lectures

1月17日 (水) Wednesday, 17th January

各賞授賞式·受賞講演 Awards Ceremony and Lectures

第 26 回日本免疫学会賞授賞式 / 26th JSI Award Ceremony

第26回日本免疫学会賞受賞者

26th JSI Award Winner

「免疫チェックポイント分子による免疫制御機構の解明」

"Elucidation of the immuno-regulatory mechanisms by immune checkpoint molecules"

岡崎 拓 氏(東京大学定量生命科学研究所 分子免疫学研究分野)

Dr. Taku Okazaki, The University of Tokyo

第10回日本免疫学会ヒト免疫研究賞授賞式/

10th JSI Human Immunology Research Award Ceremony

第10回日本免疫学会ヒト免疫研究賞受賞者

10th JSI Human Immunology Research Award Winner

「自己免疫疾患の免疫細胞サブセットの解析による疾患関連経路の解明」

"Parsing disease-related pathways through immune cell subset analysis in autoimmune diseases"

藤尾 圭志 氏 (東京大学大学院医学系研究科 内科学専攻 アレルギー・リウマチ学)

Dr. Keishi Fujio, The University of Tokyo

第 10 回日本免疫学会女性免疫研究者賞授賞式 /

10th JSI Women Immunologist Award Ceremony

第 10 回日本免疫学会女性免疫研究者賞受賞者

10th JSI Women Immunologist Award Winner

「細胞老化随伴分泌現象関連因子による抗腫瘍免疫抑制機構の解明」

"The role and mechanism of senescence-associated secretory phenotype (SASP) in regulating anti-tumor immunity"

大谷 直子 氏 (大阪公立大学大学院医学研究科 分子生体医学講座 病態生理学)

Dr. Naoko Ohtani, Osaka Metropolitan 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 18 回日本免疫学会研究奨励賞授賞式 / 18th JSI Young Investigator Award Ceremony

第 18 回日本免疫学会研究奨励賞受賞者(五十音順)

18th JSI Young Investigator Award Winners

「IgA を介した宿主と腸内細菌叢の相互作用に関する研究」

"Elucidation of the crosstalk between host and gut microbiota through IgA"

河本 新平 氏 (大阪大学微生物病研究所 遺伝子生物学分野)

Dr. Shimpei Kawamoto, Osaka University

「B細胞由来のGABAはIL-10陽性マクロファージを誘導することにより抗腫瘍免疫を抑制する」

"B cell-derived GABA elicits IL-10+ macrophages to limit anti-tumour immunity"

章 白浩 氏 (理化学研究所 粘膜免疫研究チーム)

Dr. Baihao Zhang, RIKEN

「感染や自己免疫における組織破壊機構の解明」

"Elucidation of the molecular mechanisms underlying tissue destruction associated with infectious and autoimmune diseases"

塚崎 雅之 氏 (東京大学大学院医学系研究科 骨免疫学寄附講座)

Dr. Masayuki Tsukasaki, The University of Tokyo

「感染症に対する生体防御の制御機構」

"Understanding the immunological defense against infectious diseases"

森山 彩野 氏 (国立感染症研究所 治療薬・ワクチン開発研究センター第四室)

Dr. Saya Moriyama, National Institute of Infectious Diseases

「RNA ウイルスの病原性発現機構と宿主抗ウイルス応答の解析」

"Immune Evasion Strategies of HIV-1 and SARS-CoV-2"

山岨 大智 氏 (東京大学医科学研究所 システムウイルス学分野)

Dr. Daichi Yamasoba, The University of Tokyo

※研究奨励賞受賞者の研究課題については、1月18日(木)17時00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 17:00 on 18th January.

International Immunology Outstanding Merit Award Ceremony

International Immunology Outstanding Merit Award for 2022 Winner

"Blocking EP4 downregulates tumor metabolism and synergizes with anti-PD-1 therapy to activate natural killer cells in lung adenocarcinoma model"

Dr. Miho Tokumasu, Okayama University

若手免疫学研究推進事業 / Outstanding Young Immunology Researcher Award Winners Introduction

2023 年若手免疫学研究推進事業受賞者(五十音順)

Outstanding Young Immunology Researcher Award 2023 Winners

「小腸パイエル板の濾胞性ヘルパーT 細胞分化誘導を促進する腸内細菌と食事成分の同定」

"Identification of gut bacteria and dietary components that induce the differentiation of follicular helper T cells in the Peyer's patches"

髙橋 大輔 氏 (慶應義塾大学薬学部 生化学講座)

Dr. Daisuke Takahashi, Keio University

「Kras 変異肺がんにおける MHC class | 発現低下と浸潤免疫細胞の役割」

"The role of MHC-I expression and infiltrating cells in the immune responses against Kras-mediated lung cancer"

田中 努 氏 (北海道大学大学院医学研究院 免疫学教室)

Dr. Tsutomu Tanaka, Hokkaido University

「パイエル板 SED 領域の網羅的免疫細胞解析」

"Comprehensive analysis of immune cells in sub-epithelial dome region"

中村 有孝 氏 (和歌山県立医科大学・薬学部 病態生理学研究室)

Dr. Yutaka Nakamura, Wakayama Medical University

若手女性研究者研究支援事業 / Outstanding Young Women Researcher Award Winners Introduction

2023 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 2023 Winners

「Notch シグナルによる腸管上皮間リンパ球の多様なサブセットの制御に関する研究」

"Research on the regulation of diverse subsets of intestinal intraepithelial lymphocytes by Notch signaling pathway"

石舟 智恵子 氏(徳島大学大学院医歯薬学研究部生体防御医学分野)

Dr. Chieko Ishifune. Tokushima University

「炎症性サイトカインを介した喘息重症化のメカニズムと血管炎発症制御機構の解明」

"Deciphering Inflammatory Cytokine-mediated Airway Remodeling and Vasculitis in Severe Asthma"

三木 春香 氏 (筑波大学医学医療系 膠原病リウマチアレルギー内科学)

Dr. Haruka Miki, University of Tsukuba

「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

2021 年度採択者(五十音順)

2021 Winners

「免疫受容体 CD300a の心筋梗塞における機能解析」

"The inhibitory immunoreceptor CD300a exacerbates heart injury and adverse remodeling after myocardial infarction and reperfusion in mice"

西山 奈菜子 氏(筑波大学)

Ms. Nanako Nishiyama, University of Tsukuba

「IgA 腎症の原因となる抗メサンギウム I gA 抗体の産生機構の解明」

"A mechanism for anti-mesangium IgA production in an IgA nephropathy mouse model"

東山 瑞希 氏(東京理科大学)

Ms. Mizuki Higashiyama, Tokyo University of Science

「エフェクター型制御性T細胞の選択的増加による組織修復促進機構の解明」

"Exploring the potential of selective expansion of effector regulatory T cells to promote tissue repair"

松浦 宏大 氏 (東京大学)

Mr. Kohta Matsuura, The University of Tokyo

「食事因子によるパイエル板における濾胞性ヘルパーT細胞誘導機構の解明」

"Commensal microorganisms cooperatively promote polyreactive S-IgA production by inducing follicular helper T cells in Peyer's patch"

室井 きさら 氏 (慶應義塾大学)

Ms. Kisara Muroi, Keio University

[SARS-CoV-2 抗原特異的 public TCR の同定と認識機構の解明]

"Structural analysis of SARS-CoV-2-specific public TCR"

森 正太郎 氏 (大阪大学)

Mr. Shotaro Mori, Osaka University

「CRISPR スクリーニングを用いたマクロファージの代謝調節機構の包括的解明」

"The landscape of metabolic reprogramming in macrophages analyzed by genome-wide CRISPR screening"

保倉 祥太 氏(京都大学)

Mr. Shota Yasukura, Kyoto University

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 IgA の多型性がもたらす母子移行型の免疫ダイナミクス」

"Dynamics of immune system transferred from mother to child by breastfeeding"

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」

"Memory-phenotype CD4+ T lymphocytes rapidly accumulate in ischemic organs and exacerbate 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

「Irf8 エンハンサー群の動的制御機構とその生物学的意義の解明」

"Physical and functional interaction among Irf8 enhancers during dendritic cell differentiation"

山崎 貴弥 氏(横浜市立大学)

Mr. Takaya Yamasaki, Yokohama City University

「樹状細胞のシングルセル解析を駆使したメモリー CD8 +T 細胞 サブセットの選択的 誘導機構の解明」

"Selective induction of memory CD8+ T cell subsets depends on co-stimulatory signals from dendritic cells"

亀井 萌百 氏(近畿大学)

Ms. Momo Kamei, Kindai 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綱羅的解析」

"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

- ※「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、1月18日(木)17時00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 17:00 on 18th January.

Technical Seminar

Technical Seminar

11:45 ~ 12:45, Wednesday, January 17

T01 Technical Seminar 01 Room A: Convention Hall A

Chairperson: Hiroshi Kiyono (Future Medicine Education and Research Organization, Chiba University / Chiba University Hospital)

T01 Unleashing Potential in Single Cell Analysis with the BD FACSymphony[™] A5 SE Cell Analyzer in Hematopoietic Research

Masanori Miyanishi Kobe University

Nippon Becton Dickinson Company, Ltd.

11:45 ~ 12:45, Wednesday, January 17

T02 Technical Seminar 02 Room D: 201

Chairperson: Masaki Asano (Funakoshi Co., Ltd.)

T02 Al-based platform LIGHTHOUSE revolutionizes drug discovery

Keiichi Nakayama TMDU Advanced Research Institute, Tokyo Medical and Dental University / Q Innovation Co., Ltd.

Funakoshi Co., Ltd.

11:45 ~ 12:45, Wednesday, January 17

T03 Technical Seminar 03 Room E: 301

Chairperson: Satoshi Yamazaki (Division of Cell Regulation, Center of Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo)

T03 Role of Activated Bone Marrow Stem/Stromal Cells in Hematopoiesis

Yo Mabuchi Fujita Health University / Juntendo University

TOMY DIGITAL BIOLOGY CO., LTD.

11:45 ~ 12:45, Wednesday, January 17

T04 Technical Seminar 04 Room F: 304

Chairperson: Takashi Sekiguchi (Life Technologies Japan Ltd., Thermo Fisher Scientific)

T04 Antiretroviral host factor sequesters viral RNA and protein in biological condensate

Shige H. Yoshimura Laboratory of Plasma Membrane and Nuclear Signaling, Graduate School of Biostudies, Kyoto University

Thermo Fisher Scientific

11:45 ~ 12:45, Thursday, January 18

T05 Technical Seminar 05 Room B: Convention Hall B

Chairperson: Fumihiko Ishikawa (RIKEN Center for Integrative Medical Science)

T05 Application of single cell sequencing analysis in statistical genetics

Yukinori Okada Department of Genome Informatics, Graduate School of Medicine, the University of Tokyo / Department of Statistical Genetics, Osaka University Graduate School of Medicine / Laboratory for Systems Genetics, RIKEN Center for Integrative Medical Sciences

SCRUM Inc.

11:45 ~ 12:45, Thursday, January 18

T06 Technical Seminar 06 Room C: International Conference Room

Chairperson: Tomoya Katakai (Department of Immunology, Niigata University, Graduated School of Medical and Dental Sciences)

T06 Elucidating regulatory mechanisms of T cell activation by inhibitory co-receptors

Taku Okazaki Institute for Quantitative Biosciences, The University of Tokyo

Beckman Coulter K.K

11:45 ~ 12:45, Thursday, January 18

T07 Technical Seminar 07 Room D: 201

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

T07 A novel image flow cytometry for analyzing cell phenotypes during cell-cell interactions

Hiroyoshi Nishikawa Division of Cancer Immunology, Research Institute, National Cancer Center / Department of Immunology, Nagoya University Graduate School of Medicine

Nippon Becton Dickinson Company, Ltd.

11:45 ~ 12:45, Friday, January 19

T08 Technical Seminar 08 Room D: 201

Chairperson: Jin Akagi (Cytek Japan Corporation Technical Application Support)

T08 Developing a 40-marker Cytek Aurora panel to study changes in exhausted T cells in the tumor microenvironment

Samantha Ho Merck Sharp & Dohme (MSD), Singapore

Cytek Japan Corporation

11:45 ~ 12:45, Friday, January 19

T09 Technical Seminar 09 Room F: 304

Chairperson: Tomoko Mimura (COSMO BIO CO., LTD.)

T09 Immunotherapy analysis with FluoroSpot: Higher sensitivity, higher precision

Jens Gertow Mabtech AB

COSMO BIO CO., LTD.

11:45 ~ 12:45, Friday, January 19

T10 Technical Seminar 10 Room H: 303

Chairperson: Sho Yamasaki (Molecular Immunology, Research Institute for Microbial Diseases / Immunology Frontier Research Center, Osaka University)

T10 Targeting B cell migration in autoimmunity

Kazuhiro Suzuki Immunology Frontier Research Center, Osaka University, Japan / Research Institute for Microbial Diseases, Osaka University, Japan / Center for Infectious Disease Education and Research, Osaka University, Japan

Standard BioTools K.K.

Clinical Seminar

Clinical Seminar

11:45 ~ 12:45, Wednesday, January 17

C01 Clinical Seminar 01 Room B: Convention Hall B

Chairperson: Hajime Karasuyama (Inflammation, Infection and Immunity Laboratory, Tokyo Medical and Dental University Advanced Research Institute)

C01 The interleukin-4 receptor system: origin, functions and distribution

Lukas E. M. Heeb University Hospital Zurich

Sanofi K.K.

11:45 ~ 12:45, Wednesday, January 17

C02 Clinical Seminar 02 Room C: International Conference Room

Chairperson: Kenji Kabashima (Department of Dermatology, Graduate School of Medicine and Faculty of Medicine Kyoto University)

C02 The Role of Peripheral Nerves in Atopic Dermatitis and the Effect of Upadacitinib

Atsushi Otsuka Kindai University Hospital

AbbVie GK

11:45 ~ 12:45, Wednesday, January 17

C03 Clinical Seminar 03 Room G: 302

Chairperson: Ken Takeuchi (Gastroenterological Medicine, Tsujinaka Hospital)

C03 Basic treatment strategies for ulcerative colitis and current status of extraintestinal manifestations

Jun Kato Chiba University Hospital

Mitsubishi Tanabe Pharma Corporation / Janssen Pharmaceutical K.K.

11:45 ~ 12:45, Wednesday, January 17

C04 Clinical Seminar 04 Room H: 303

Chairperson: Kaori Sakuishi (Department of Neurology, Teikyo University Chiba Medical Center)

C04 Involvement of IL-6 in the pathogenesis of neuroimmunological diseases and the importance of therapeutic strategies for IL-6 inhibition

Akiyuki Uzawa Department of Neurology, Graduate School of Medicine, Chiba University

CHUGAI PHARMACEUTICAL CO., LTD.

11:45 ~ 12:45, Thursday, January 18

C05 Clinical Seminar 05 Room A: Convention Hall A

Chairperson: Atsushi Kumanogoh (Department of Respiratory Medicine and Clinical Immunology, Graduate School of Medicine, Osaka University)

C05 Decoding type I Interferon signals in Systemic Lupus Erythematosus

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

AstraZeneca K.K.

11:45 ~ 12:45, Thursday, January 18

C06 Clinical Seminar 06 Room E: 301

Chairperson: Sho Yamasaki (Molecular Immunology, Research Institute for Microbial Diseases / Immunology Frontier Research Center, Osaka University)

C06 Current Status and Challenges of Respiratory Infections Including COVID-19 -From the perspective of specialist -

Makoto Ishii Department of Respiratory Medicine, Nagoya University Graduate School of Medicine

Moderna Japan Co., Ltd

11:45 ~ 12:45, Thursday, January 18

C07 Clinical Seminar 07 Room F: 304

Chairperson: Nobuhiko Kamada (Laboratory of Microbiology and Immunology, WPI Immunology Frontier Research Center, Osaka University / Division of Gastroenterology and Hepatology, University of Michigan Medical School)

C07 Regulation of intestinal homeostasis: host-microbiota interaction

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

Otsuka Pharmaceutical Co., Ltd.

11:45 ~ 12:45, Thursday, January 18

C08 Clinical Seminar 08 Room G: 302

Chairperson: Masaki Hiraguri (Rheumatology and Allergology Medicine, Japanese Red Cross Narita Hospital)

C08 New era for management of eosinophilic granulomatosis with polyangiitis: mepolizumab, a humanized monoclonal antibody for human IL-5, in real-world clinical practice

Tomohiro Tamachi Department of Allergy and Rheumatology, Chiba Rosai Hospital

GlaxoSmithKline K.K.

11:45 ~ 12:45, Thursday, January 18

C09 Clinical Seminar 09 Room H: 303

Chairperson: Takuji Suzuki (Department of Respirology, Graduate School of Medicine, Chiba University)

C09 Effects of cancer intrinsic signals and microenvironmental factors on immune checkpoint inhibitor response

Shogo Kumagai Division of Cancer Immunology, Research Institute / Exploratory Oncology Research & Clinical Trial Center (EPOC), National Cancer Center

MSD K.K.

11:45 ~ 12:45, Friday, January 19

C10 Clinical Seminar 10 Room A: Convention Hall A

Chairperson: Akihiko Kawana (Division of Infectious Diseases and Pulmonary Medicine, National Defense Medical College)

C10 Ensitrelvir, an anti-SARS-CoV-2 drug developed in Japan

Takayuki Miyara Department of Infection Control and Prevention, Kobe University Hospital

Shionogi & Co.,Ltd.

11:45 ~ 12:45, Friday, January 19

C11 Clinical Seminar 11 Room C: International Conference Room

Chairperson: Kunihiro Yamaoka (Kitasato University School of Medicine)

C11-01 Individualized understanding of the immunological landscape of rheumatoid arthritis

Hirofumi Shoda Department of Allergy and Rheumatology, Graduated School of Medicine, the University of Tokyo

C11-02 Significance of T-cell targeted therapy in the treatment of rheumatoid arthritis and the potential of JAK inhibitors

Tomohiro Koga Department of Immunology and Rheumatology, Division of Advanced Preventive Medical Sciences, Nagasaki University Graduate School

Pfizer Japan Inc.

11:45 ~ 12:45, Friday, January 19

C12 Clinical Seminar 12 Room E: 301

Chairperson: Kei Ikeda (Department of Rheumatology, Dokkyo Medical University)

C12 The 3BP2 degradation pathway in the immune system

Yoshinori Matsumoto Department of Nephrology, Rheumatology, Endocrinology and Metabolism, Okayama University, Japan / Princess Margaret Cancer Center, University of Toronto, Canada

Asahikasei Pharma

C13 Clinical Seminar 13 Room G: 302

Chairperson: Koutaro Yokote (Director General of Chiba University Hospital)

C13-01 Age-related microinflammation, cancer, and immunity

Makoto Nakanishi The institute of Medical Science, The University of Tokyo

C13-02 Registry for Neuroimmunologic Diseases: Focus on Chronic Inflammatory Demyelinating Polyneuropathy

Sonoko Misawa Department of Neurology, Chiba Graduate School of Medicine

Daiichi Sankyo Company, Limited

Afternoon Seminar

Afternoon Seminar

13:00 ~ 14:00, Wednesday, January 17

A01 Afternoon Seminar 01 Room B: Convention Hall B

Outstanding Young Women Researcher Award

Chairpersons: Tomohiro Kurosaki (WPI Immunology Frontier Research Center, Osaka University)
Toshinori Nakayama (Chiba University)

A01-01 Investigation of the role of B-cell-intrinsic TBK1 for germinal center formation

Michelle Sue Jann Lee Division of Malaria Immunology, The Institute of Medical Science, The University of Tokyo / International Vaccine Design Center, The Institute of Medical Science, The University of Tokyo

A01-02 Early T cell progenitor-derived antigen-presenting cells contribute to establishing self-tolerance

Haruka Wada Division of Immunobiology, Institute for Genetic Medicine, Hokkaido University

TOMY DIGITAL BIOLOGY CO., LTD.

13:00 ~ 14:00, Thursday, January 18

A02 Afternoon Seminar 02 Room B: Convention Hall B

Outstanding Young Immunology Researcher Award

Chairpersons: Tomohiro Kurosaki (WPI Immunology Frontier Research Center, Osaka University)
Toshinori Nakayama (Chiba University)

A02-01 Identification of fibroblasts that initiate inducible bronchus-associated lymphoid tissue (iBALT) formation during influenza virus infection

Shinichi Koizumi Kyushu University

A02-02 The analysis of effects of commensal bacteria and immune system on brain development

A02-03 Analysis of clonal diversity of murine T follicular helper cells during influenza virus infection

Daiki Mori Regulation of Host Defense Team, Center for Infectious Disease Education and Research, Osaka University

Nippon Becton Dickinson Company Ltd.

Evening Seminar

Evening Seminar

18:40 ~ 19:40, Wednesday, January 17

E01 Evening Seminar 01 Room D: 201

Chairperson: Takuji Suzuki (Department of Respirology, Graduate School of Medicine, Chiba University)

E01 Lung stem cell biology and disease

Mitsuru Morimoto Laboratory for Lung Development and Regeneration, RIKEN Center for Biosystems Dynamics Research

TOMY DIGITAL BIOLOGY CO., LTD.

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(2024 年度 <2023 年 10 月1日~2024 年 9 月 30 日 >)となりました。新年度の会費は、学会事務局より送付いたしました「年会費用振替用紙」にてお振込みいただくか、会員専用ページ($https://www.men-eki.org/meneki_web/jsp/welcome.html) より簡便なクレジットカードによる会費決済をおこなえますので、より多くの会員の皆様にご利用をお願い申し上げます。クレジットカード決済の際に、年会費と併せて寄附金を納付いただける場合に限り、クレジット手数料は無料(全額学会負担)となります。$

新規入会の方は、学会ホームページ「入会申込」のボタンより、オンラインで手続きをお願いいたします。

4. 2024 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)

理事:岡田峰陽、椛島健治、河本 宏、熊ノ郷 淳、渋谷 彰、高柳 広、竹田 潔、三宅幸子、山崎 晶

(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)

監事:岩倉洋一郎、小安重夫

(2024年12月31日迄)

5. 日本免疫学会へのご寄附のお願い

ご存じのとおり、本学会は、2005年度のNPO法人化を機に、社会貢献活動にも積極的に取り組み、「免疫ふしぎ未来」をはじめとして、一般社会に対して、より広く免疫学の魅力と重要性をアピールする活動も広げ、免疫研究への一層の理解と、啓蒙に努めております。

その一方で、会員数減等による実質的な資産の減少が著しく、これまで、各種事業の見直し等、学会として対応策を講じてまいりましたが、年々、健全な学会運営をとりまく環境は厳しくなっております。

皆様のご協力のお蔭で、本学会は2016年11月7日をもちまして、本認定特定非営利活動法人として認定されましたが、本認定期間においても、より多くの方々(毎年100名以上)からの寄附があることが認定継続の要件となっております。 つきましては、今後、社会へのより一層の貢献のために、各種事業による免疫学の普及啓発事業等の活動をさらに発展させ、本学会の財政健全化のためにも、より多くの皆様からの寄附を募集いたします。

寄附のお申し込みの詳細につきましては、本学会ホームページ、ご寄附のお願い(https://www.jsi-men-eki.org/kifu/)をご覧ください。クレジットカードでのお支払いも可能です。また、会員専用ページ(https://www.men-eki.org/meneki_web/jsp/welcome.html)より、年会費と併せて寄附金を納付いただければ、クレジット決済手数料は無料(全額学会負担)となりますので、本学会活動にご理解とご賛同をいただき、ご支援・ご協力をいただければ幸いです。なお、本学会の主たる目的である業務に関係する寄附金は、個人・法人ともに税法上の優遇措置が与えられます。ご不明な点等ありましたら、下記の学会事務局までお問い合わせください。

6. 特定非営利活動法人 日本免疫学会 事務局

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(文責: 事務局長 浅井保至)

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Dik, Willem A. Ding, Yi Doan, Van Thi Hong Doench, John Dohi, Teruyuki Dolezal, Olan Domeier, Phillip P Dong, Yixing Dori, Daisuke	WS23-15-P WS23-16-P WS15-12-P WS18-08-P WS22-05-O/P WS03-04-P S13-04 S06-05 S12-04 WS18-15-P	Fridman, Valeria D'A Fuchimukai, Akane Fujihashi, Kohtaro Fujii, Kaho Fujii, Satoshi	WS06-17-P WS26-17-P WS20-13-O/P WS16-09-P WS18-10-P WS08-10-P WS08-23-P WS08-23-P WS15-03-O/P	Fukunaga, Atsushi Fukunaga, Koichi Fukushima, Yuji Fulford, Thomas S Fumita, Takashi Funatsu, Shotaro	WS05-10-P WS10-07-P WS14-07-P WS19-19-P WS08-06-O/P WS20-12-O/P S15-04 S13-04 WS25-12-P WS07-02-O/P	Goto, Masamichi Goto, Yasuyuki Goto, Yoshiyuki Goto, Yuki Gotoh, Yukiko Gou, Qiao Goujard, Cécile Graham, Daniel B	WS17-15-O/I WS16-05-O/ WS21-08-P OT03 WS05-06-O/ S12-03 WS01-01-P WS01-02-O/I WS22-13-P WS09-19-P WS19-14-O/
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Ebihara, Nobuyuki	WS23-15-P WS23-16-P WS15-12-P WS18-08-P WS22-05-O/P WS03-04-P S13-04 S06-05 S12-04 WS18-15-P S15-02 WS21-03-P WS23-09-O/P WS22-25-P S15-02	Fridman, Valeria D'A Fuchimukai, Akane Fujihashi, Kohtaro Fujii, Kaho Fujii, Satoshi Fujii, Shin-ichiro Fujii, Takayuki Fujikawa, Yoshikazu Fujiki, Fumihiro Fujimoto, Manabu	WS06-17-P WS26-17-P WS20-13-O/P WS16-09-P WS18-10-P WS08-23-P WS08-23-P WS15-03-O/P WS20-06-O/P WS24-14-P WS12-09-P WS12-14-O/P WS08-08-P WS22-01-O/P WS16-17-P WS19-03-O/P WS25-02-O/P	Fukunaga, Atsushi Fukunaga, Koichi Fukushima, Yuji Fulford, Thomas S Fumita, Takashi Funatsu, Shotaro Furuhata, Masae Furukawa, Atsushi Furukawa, Koichi Furukawa, Ryutaro	WS05-10-P WS10-07-P WS14-07-P WS19-19-P WS08-06-O/P WS20-12-O/P S15-04 S13-04 WS25-12-P WS07-02-O/P WS07-06-O/P WS08-11-P WS08-12-P WS10-03-P WS05-07-P WS03-12-O/P WS08-19-P SUS09-13-P WS06-16-P WS07-11-P	Goto, Masamichi Goto, Yasuyuki Goto, Yoshiyuki Goto, Yuki Gotoh, Yukiko Gou, Qiao Goujard, Cécile Graham, Daniel B Gu, Qisheng Guo, Yun Gupta, Kaustav Das	WS17-15-0/l WS16-05-0/ WS21-08-P OT03 WS05-06-0/ S12-03 WS01-01-P WS01-02-0/l WS22-13-P WS09-19-P WS19-14-0/ WS21-03-P WS15-22-P WS16-04-0/
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Kishimoto, Hidehiro Kiso, Maki Kita, Hirohito Kita, Yuki Kitabatake, Masahi Kitada, Ayako Kitada, Ayako Kitagawa, Moeka	WS16-19-P WS16-22-P WS01-25-P WS09-01-O/P WS14-10-P WS22-07-O/P iro WS08-19-P WS08-24-P WS09-13-P WS19-13-P WS26-02-O/P WS26-16-P WS12-20-O/P WS06-04-P	Kobayashi, Reo Kobayashi, Takao Kobayashi, Takashi Kobayashi, Tetsuro Kobayashi, Yohei Kobayashi, Yohei Kobori, Hajime Koga, Michiko	WS22-08-P WS22-09-P WS21-04-O/P WS20-11-P WS19-09-P WS14-10-P WS06-21-P WS01-10-P WS18-14-O/P WS19-05-O/P WS20-12-O/P WS28-08-P WS18-14-D/P	Kongmakee, Piyapo Kono, Hajime Koseki, Haruhiko	WS12-20-O/P WS17-24-P WS12-11-P WS12-15-O/P WS18-04-O/P rn WS16-21-P WS04-18-P S11-05 S12-04 WS08-01-O/P WS08-22-P WS12-18-P WS09-21-P WS04-06-O/P	Kuniishi-Hikosaka, N Kunimura, Kazufumi Kuninaka, Yumi Kunisawa, Jun Kuno, Yoshihiro	MS10-23-P WS28-01-P WS14-07-P WS19-19-P WS06-01-P WS06-02-P WS06-05-P WS06-06-O/P WS11-13-P WS19-17-O/P WS20-08-P WS24-21-P WS17-19-P
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Kishimoto, Hidehiro Kiso, Maki Kita, Hirohito Kita, Yuki Kitabatake, Masahi Kitada, Ayako Kitagawa, Moeka Kitahata, Kosuke Kitahata, Yuji	WS16-19-P WS16-22-P WS01-25-P WS09-01-O/P WS14-10-P WS22-07-O/P iro WS08-19-P WS08-24-P WS09-13-P WS19-13-P WS26-02-O/P WS26-16-P WS12-20-O/P WS06-04-P WS08-13-P WS22-22-P	Kobayashi, Reo Kobayashi, Takao Kobayashi, Takashi Kobayashi, Tetsuro Kobayashi, Yohei Kobayashi, Yohei Kobori, Hajime Koga, Michiko Koga, Rinna Koga, Tomohiro	WS22-08-P WS22-09-P WS21-04-O/P WS20-11-P WS19-09-P WS14-10-P WS06-21-P WS01-10-P WS18-14-O/P WS19-05-O/P WS20-12-O/P WS20-12-O/P WS28-08-P WS18-14-13-P WS09-18-P WS03-13-P	Kongmakee, Piyapo Kono, Hajime Koseki, Haruhiko Koseki, Ryota Kotaki, Ryutaro	WS12-20-O/P WS17-24-P WS12-11-P WS12-15-O/P WS18-04-O/P rn WS16-21-P WS04-18-P S11-05 S12-04 WS08-01-O/P WS08-22-P WS12-18-P WS09-21-P WS04-06-O/P WS09-06-O/P	Kunimura, Kazufumi Kunimura, Kazufumi Kuninaka, Yumi Kuno, Yoshihiro Kurachi, Junko Kurachi, Makoto Kurasawa, Kazuhiro Kuratani, Ayumi	lari WS10-23-P WS28-01-P WS19-19-P WS06-01-P WS06-02-P WS06-05-P WS06-06-O/P WS11-13-P WS19-17-O/P WS20-08-P WS24-21-P WS02-14-P
Kishimoto, Hidehiro Kiso, Maki Kita, Hirohito Kita, Yuki Kitabatake, Masahi Kitada, Ayako Kitagawa, Moeka Kitahata, Kosuke Kitahata, Yuji Kitai, Yuichi	WS16-19-P WS16-22-P WS01-25-P WS09-01-O/P WS14-10-P WS22-07-O/P iro WS08-19-P WS08-24-P WS09-13-P WS19-13-P WS26-02-O/P WS26-16-P WS12-20-O/P WS06-04-P WS08-13-P WS22-22-P WS04-14-P WS11-12-P	Kobayashi, Reo Kobayashi, Takao Kobayashi, Takashi Kobayashi, Tatsuro Kobayashi, Tetsuro Kobayashi, Yohei Kobori, Hajime Koga, Michiko Koga, Rinna Koga, Tomohiro Kogame, Toshiaki	WS22-08-P WS22-09-P WS21-04-O/P WS20-11-P WS19-09-P WS14-10-P WS06-21-P WS01-10-P WS18-14-O/P WS19-05-O/P WS20-12-O/P WS20-12-O/P WS26-15-P WS26-15-P WS20-08-P	Kongmakee, Piyapo Kono, Hajime Koseki, Haruhiko Koseki, Ryota Kotaki, Ryutaro	WS12-20-O/P WS17-24-P WS12-11-P WS12-15-O/P WS18-04-O/P rn WS16-21-P WS04-18-P S11-05 S12-04 WS08-01-O/P WS08-22-P WS12-18-P WS09-21-P WS04-06-O/P WS09-06-O/P WS26-01-O/P WS28-14-O/P	Kunimura, Kazufumi Kunimura, Kazufumi Kuninaka, Yumi Kuno, Yoshihiro Kurachi, Junko Kurachi, Makoto Kurasawa, Kazuhiro Kuratani, Ayumi Kure, Yukie	lari WS10-23-P WS28-01-P WS19-19-P WS06-01-P WS06-02-P WS06-05-P WS06-06-O/P WS11-13-P WS19-17-O/P WS20-08-P WS24-21-P WS24-21-P WS02-14-P WS22-18-P
Kishimoto, Hidehiro Kiso, Maki Kita, Hirohito Kita, Yuki Kitabatake, Masahi Kitada, Ayako Kitagawa, Moeka Kitahata, Kosuke Kitahata, Yuji Kitai, Yuichi Kitajima, Kenji	WS16-19-P WS16-22-P WS01-25-P WS09-01-O/P WS14-10-P WS22-07-O/P iro WS08-19-P WS08-24-P WS09-13-P WS19-13-P WS26-02-O/P WS26-16-P WS12-20-O/P WS06-04-P WS08-13-P WS22-22-P WS04-14-P WS11-12-P	Kobayashi, Reo Kobayashi, Takao Kobayashi, Takashi Kobayashi, Tatsuro Kobayashi, Tetsuro Kobayashi, Yohei Kobori, Hajime Koga, Michiko Koga, Rinna Koga, Tomohiro Kogame, Toshiaki Kohda, Chikara	WS22-08-P WS22-09-P WS21-04-O/P WS20-11-P WS19-09-P WS14-10-P WS06-21-P WS01-10-P WS18-14-O/P WS19-05-O/P WS20-12-O/P WS20-12-O/P WS26-15-P WS26-15-P WS20-08-P	Kongmakee, Piyapo Kono, Hajime Koseki, Haruhiko Koseki, Ryota Kotaki, Ryutaro Kotani, Takenori	WS12-20-O/P WS17-24-P WS12-11-P WS12-15-O/P WS18-04-O/P rn WS16-21-P WS04-18-P S11-05 S12-04 WS08-01-O/P WS08-22-P WS12-18-P WS09-21-P WS04-06-O/P WS09-06-O/P WS26-01-O/P WS28-14-O/P WS10-13-O/P	Kuniishi-Hikosaka, M Kunimura, Kazufumi Kuninaka, Yumi Kunisawa, Jun Kuno, Yoshihiro Kurachi, Junko Kurachi, Makoto Kurasawa, Kazuhiro Kurasawa, Kazuhiro Kuratani, Ayumi Kure, Yukie	Mari WS10-23-P WS28-01-P WS19-19-P WS06-01-P WS06-02-P WS06-05-P WS06-06-O/P WS11-13-P WS19-17-O/P WS20-08-P WS24-21-P WS24-21-P WS02-14-P WS02-14-P WS09-22-O/P
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			∘ ⊙WS16-12-P	Mathis, Diane	○ S06-06	Matsune, Shoji	WS14-11-O/P
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Nosaka, Mizuho	WS06-01-P	Ohki, Shun	WS08-16-P	Okayama, Takafumi	WS22-03-O/P		WS23-09-O/P
	WS06-02-P		WS11-16-P	Okazaki, II-mi	WS13-07-P	Oritani, Kenji	WS10-04-P
	WS06-05-P		WS28-12-O/P		WS13-10-P		WS14-01-O/P
	o WS06-06-O/P		○ WS13-05-O/P	Okazaki, Shogo	WS21-02-O/P		⇒WS01-23-P
Nouari, Houcine	WS09-02-P	, 0	○S12-05	,	○WS13-15-P	Osanai, Mahoro	WS10-19-P
Nouchi, Yusuke	WS06-09-P	Ohnishi, Kazuo	WS21-05-P	Okazaki, Taku	○T06		S12-01
Nozaki, Chihiro	○ WS03-09-P	Ohno, Hiroshi	WS01-24-P		WS13-07-P	Oshima, Masanobu	WS22-25-P
	WS18-13-P		WS23-03-O/P	O	WS13-10-P	Oshiumi, Hiroyuki	WS01-03-P
Nugraha, Dendi Kr		Ohno, Marumi	WS09-14-O/P	Okazaki, Tomohiko	WS01-01-P		WS01-04-P
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Núñez, Gabriell	WS16-06-O/P	Ohnuki, Kazunobu	WS08-07-O/P	Oki, Shinji	WS02-07-P		WS05-11-O/P
	WS16-10-P	Ohta, Akio	WS10-22-P		WS17-14-P		WS09-05-P
	WS25-06-O/P	Obta Himabi	WS24-26-P	Olassia Illianda	WS23-07-O/P	O Wateles	WS21-06-O/P
		Ohta, Hiroshi	WS25-23-P	Okuda, Hiroshi	WS22-24-P	Osuga, Yutaka	WS01-08-O/P
	^	Ohta, Shigeki	WS15-10-P		○WS27-06-P	Ota, Mineto	WS02-01-O/P
	0	Ohtake, Tomoyuki Ohtaki, Kenichi	WS24-25-P WS09-04-P	Okumura, CJ Okumura, Genki	WS05-18-O/P WS08-21-P		WS02-06-O/P WS17-15-O/P
		Ontaki, Kenichi	W309-04-F	Okumura, Genki	W300-2 I-F		W317-13-0/F
Oho Coivo	WC00 10 B	Obtani Naska	MICOE OZ O/D	Okumura Ka	WC02 14 D	Otobo Tokobiro	WC1E 20 D
Oba, Seiya	WS09-10-P	Ohtani, Naoko	WS25-07-O/P	Okumura, Ko	WS03-14-P	Otabe, Takahiro	WS15-29-P
Oba, Seiya Obata-Ninomiya, K	azushige	Ohta-Ogo, Keiko	WS26-09-O/P	Okumura, Ko	WS05-02-O/P	Otsuka, Atsushi	C02
Obata-Ninomiya, K	azushige ○WS23-12-O/P		WS26-09-O/P WS04-07-O/P	Okumura, Ko	WS05-02-O/P WS05-03-P	Otsuka, Atsushi	○C02 ○WS02-17-P
Obata-Ninomiya, K	azushige ○WS23-12-O/P WS10-09-O/P	Ohta-Ogo, Keiko	WS26-09-O/P WS04-07-O/P WS18-04-O/P	Okumura, Ko	WS05-02-O/P WS05-03-P WS05-09-P	Otsuka, Atsushi	0 C02 0 WS02-17-P WS02-18-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro	(azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P	Okumura, Ko	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P	Otsuka, Atsushi	C02 WS02-17-P WS02-18-P WS02-19-P
Obata-Ninomiya, K	azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P	Okumura, Ko	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P	Otsuka, Atsushi	C02 WS02-17-P WS02-18-P WS02-19-P WS02-20-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa	azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P	Okumura, Ko	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P	Otsuka, Atsushi	C02 WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa	azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P WS05-09-P	Okumura, Ko	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P	Otsuka, Atsushi	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa Oda, Izumi	(azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji Oishi, Yumiko	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P		WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P WS19-08-P	Otsuka, Atsushi Otsuka, Kunihiro	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P WS24-08-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa Oda, Izumi Oda, Yoshitaka	(azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P WS05-09-P S05-01 WS08-08-P	Okuyama, Fumiya	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P WS19-08-P WS10-04-P	Otsuka, Atsushi Otsuka, Kunihiro	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P WS24-08-P A02-02
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa Oda, Izumi Oda, Yoshitaka Odagiri, Takashi	(azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji Oishi, Yumiko Oji, Yusuke	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P WS05-09-P S05-01 WS08-08-P WS22-01-O/P	Okuyama, Fumiya Okuyama, Kazuki	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P WS19-08-P WS10-04-P S14-05	Otsuka, Atsushi Otsuka, Kunihiro Otsuka, Ryo Ouchi, Nozomi	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P WS24-08-P A02-02 WS04-23-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa Oda, Izumi Oda, Yoshitaka Odagiri, Takashi Ode, Hirotaka	(azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji Oishi, Yumiko Oji, Yusuke	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P WS05-09-P S05-01 WS08-08-P WS22-01-O/P WS17-06-P	Okuyama, Fumiya Okuyama, Kazuki	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P WS19-08-P WS10-04-P S14-05 WS27-08-O/P	Otsuka, Atsushi Otsuka, Kunihiro Otsuka, Ryo Ouchi, Nozomi Ouchi, Ryo	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P WS24-08-P A02-02 WS04-23-P WS15-09-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa Oda, Izumi Oda, Yoshitaka Odagiri, Takashi Ode, Hirotaka Oduori, Okechi S	(azushige	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji Oishi, Yumiko Oji, Yusuke	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P WS05-09-P S05-01 WS08-08-P WS22-01-O/P	Okuyama, Fumiya Okuyama, Kazuki	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P WS19-08-P WS10-04-P S14-05	Otsuka, Atsushi Otsuka, Kunihiro Otsuka, Ryo Ouchi, Nozomi	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P WS24-08-P A02-02 WS04-23-P
Obata-Ninomiya, K Obeng, Gideon Ochiai, Sotaro Oda, Akihisa Oda, Chigusa Oda, Izumi Oda, Yoshitaka Odagiri, Takashi Ode, Hirotaka	(azushige WS23-12-O/P WS10-09-O/P WS25-04-O/P WS07-11-P WS26-16-P WS04-22-P WS27-01-O/P WS22-08-P WS25-20-P WS24-28-P WS10-13-O/P	Ohta-Ogo, Keiko Ohteki, Toshiaki Ohtori, Seiji Ohyama, Ayako Oishi, Kenji Oishi, Yumiko Oji, Yusuke	WS26-09-O/P WS04-07-O/P WS18-04-O/P WS20-05-O/P WS12-06-P WS12-10-P WS05-09-P S05-01 WS08-08-P WS22-01-O/P WS17-06-P WS08-08-P	Okuyama, Fumiya Okuyama, Kazuki	WS05-02-O/P WS05-03-P WS05-09-P WS05-18-O/P WS06-27-O/P WS07-09-P WS13-14-P WS19-08-P WS10-04-P S14-05 WS27-08-O/P WS17-02-P	Otsuka, Atsushi Otsuka, Kunihiro Otsuka, Ryo Ouchi, Nozomi Ouchi, Ryo	WS02-17-P WS02-18-P WS02-19-P WS02-20-P WS03-13-P WS22-23-P WS24-08-P A02-02 WS04-23-P WS15-09-P WS04-19-P
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i aik, Luii dediig	WS10-09-O/P	Rottapel, Robert	C12	Sakamoto, Tatsuhiro		Sawa, Hirofumi	WS28-13-O/P
Darker Michael				Sakamoto, Yuma			
Parker, Michael	S13-04	Rowland-Jones, Sar		Sakamoto, Yuma	WS04-09-P	Sawa, Shinichiro	S14-02
Pattarakankul, Thitip			WS09-21-P		WS19-02-P		WS11-09-P
	WS03-15-P	Rowntree, Louise C	S01-03	Sakata-Yanagimoto,			WS11-10-O/P
Patton, Timothy	○WS10-27-O/P		WS09-24-P		WS22-25-P		WS11-11-O/P
Paul, Nicodème	WS09-19-P		WS20-02-O/P	Sakihara, Mizuki	WS27-09-O/P		WS19-07-O/P
Petersen, Jan	WS24-27-P		WS24-27-P	Sakuraba, Shun	WS07-14-P		WS20-11-P
Phoksawat, Wisitsal	<	Roytrakul, Sittiruk	WS01-22-P	Sakurai, Kota	WS25-18-P		WS20-13-O/P
	WS10-15-P	Rubel, Md. Zahir Ud	din	Sano, Kaori	o WS09-07-P	Sawaguchi, Mina	WS19-23-P
Phumrattanaprapin,	Wuttipong		WS25-10-P	Sano, Ritsuki	WS06-04-P	Sawanobori, Yasush	ıi
	WS01-19-O/P	Rui, Yuxiang	WS17-06-P	Sano, Syuhei	WS05-04-O/P		○WS18-03-O/P
Pilapitiya, Devaki	WS16-12-P	Runtuwene, Lucky	WS09-18-P	Saonanon, Preamjit	WS23-15-P		WS23-10-P
Planchais, Cvril	WS21-03-P	Rusch, Robert	WS13-15-P		WS23-16-P	Schleussner, Nikola	i WS21-01-O/P
Planchais, Cyril Pongma, Chitsuda	WS21-03-P	Rusch, Robert Rvotokuii, Kenii	WS13-15-P WS26-18-P	Sapieha, Przemyslav	WS23-16-P	Schleussner, Nikolai Schmidt, Sylvie	
Pongma, Chitsuda	○WS16-21-P	Rusch, Robert Ryotokuji, Kenji	WS13-15-P WS26-18-P	Sapieha, Przemyslav	N	Schmidt, Sylvie	WS09-19-P
	∘WS16-21-P aput				N S07-03	Schmidt, Sylvie Schroeder, Jan	WS09-19-P WS20-02-O/P
Pongma, Chitsuda Poonpanichakul, Tir	∘ WS16-21-P aput WS01-09-O/P	Ryotokuji, Kenji	WS26-18-P	Saputri, Dianita Susi	<i>N</i> S07-03 ilo	Schmidt, Sylvie Schroeder, Jan Schutt, Charles	WS09-19-P WS20-02-O/P S04-02
Pongma, Chitsuda	∘ WS16-21-P aput WS01-09-O/P rdsak		WS26-18-P	Saputri, Dianita Susi	<i>w</i> S07-03 ilo ⊙WS28-10-O/P	Schmidt, Sylvie Schroeder, Jan	WS09-19-P WS20-02-O/P S04-02 A02-02
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P	Ryotokuji, Kenji	WS26-18-P	Saputri, Dianita Susi	w S07-03 ilo ○ WS28-10-O/P ○ WS09-11-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P	Ryotokuji, Kenji S. Ismanto, Hendra	WS26-18-P WS10-01-P	Saputri, Dianita Susi Sasaki, Atsushi	W S07-03 ilo ○ WS28-10-O/P ○ WS09-11-P WS17-10-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P	Ryotokuji, Kenji	WS10-01-P WS06-09-P	Saputri, Dianita Susi Sasaki, Atsushi	w S07-03 ilo ○ WS28-10-O/P ○ WS09-11-P WS17-10-P ○ WS04-17-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima	WS10-01-P WS06-09-P WS22-19-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita	W S07-03 ilo ○ WS28-10-O/P ○ WS09-11-P WS17-10-P ○ WS04-17-P WS28-14-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi	WS10-01-P WS06-09-P WS22-19-P WS06-21-P	Saputri, Dianita Susi Sasaki, Atsushi	N S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G.	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P o WS28-11-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki	WS10-01-P WS06-09-P WS22-19-P WS06-21-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita	W S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi	WS10-01-P WS06-09-P WS22-19-P WS06-21-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita	N S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G.	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P o WS28-11-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan	WS10-01-P WS06-09-P WS22-19-P WS06-21-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki	W S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P o WS28-11-O/P WS22-06-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki	N S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P o WS28-11-O/P WS22-06-O/P WS17-14-P WS16-12-P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki	W S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-08-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas	o WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P o WS28-11-O/P WS22-06-O/P WS17-14-P WS16-12-P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki	N S07-03 iilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-08-O/P WS23-17-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P ○ WS28-11-O/P WS22-06-O/P WS17-14-P WS16-12-P orn	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun	WS10-01-P WS06-09-P WS06-21-P WS19-12-P WS12-18-P WS12-14-O/P Varattaya	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi	N S07-03 iilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-08-O/P WS23-17-P WS03-12-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P WS02-12-P WS23-03-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas Pruksakorn, Vannak	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P ○ WS28-11-O/P WS17-14-P WS16-12-P orn WS23-15-P WS23-16-P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun Saengchaisukhonkit Saichua, Prasert	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P WS12-14-O/P Varattaya WS17-03-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi Sasaki, Michihito	S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-08-O/P WS23-17-P WS03-12-O/P WS03-12-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P WS02-12-P WS23-03-O/P WS09-14-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas Pruksakorn, Vannak	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P ○ WS28-11-O/P WS17-14-P WS16-12-P orn WS23-15-P WS23-16-P WS16-21-P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun Saengchaisukhonkit Saichua, Prasert	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P WS12-14-O/P Varattaya WS17-03-P WS01-18-P WS01-20-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi Sasaki, Michihito Sasaki, Noboru Sasaki, So-Ichiro	S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-04-P WS03-08-O/P WS23-17-P WS03-12-O/P WS28-13-O/P WS25-23-P WS20-03-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P WS02-12-P WS02-12-P WS03-03-O/P WS09-14-O/P WS09-24-P WS04-08-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas Pruksakorn, Vannak	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P ○ WS28-11-O/P WS17-14-P WS16-12-P orn WS23-15-P WS23-16-P WS16-21-P la	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun Saengchaisukhonkit Saichua, Prasert Saijo, Shinobu	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P WS12-14-O/P Varattaya WS17-03-P WS01-18-P WS01-18-P WS01-20-P WS16-14-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi Sasaki, Michihito Sasaki, Moboru Sasaki, So-Ichiro Sasaki, Takanori	S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-04-P WS03-08-O/P WS23-17-P WS03-12-O/P WS28-13-O/P WS28-13-O/P WS26-23-P WS20-03-P WS14-09-O/P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki Selkoe, Dennis J. Senda, Akiyoshi	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P WS02-12-P WS02-12-P WS03-03-O/P WS09-14-O/P WS09-24-P WS04-08-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas Pruksakorn, Vannak Puthong, Songchan Putri, Sahnaz Vivino	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P ○ WS28-11-O/P WS17-14-P WS16-12-P orn WS23-15-P WS23-16-P WS16-21-P la WS02-02-P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun Saengchaisukhonkit Saichua, Prasert Saijo, Shinobu Saika, Azusa	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P WS12-14-O/P Varattaya WS17-03-P WS01-18-P WS01-18-P WS01-20-P WS16-14-P WS11-13-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi Sasaki, Izumi Sasaki, Michihito Sasaki, Noboru Sasaki, So-Ichiro Sasaki, Takanori Sasaki, Yuto	S07-03 ilo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS28-14-O/P WS03-02-O/P WS03-03-P WS03-04-P WS03-08-O/P WS23-17-P WS03-12-O/P WS28-13-O/P WS28-13-O/P WS28-13-O/P WS26-23-P WS14-09-O/P WS10-04-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki Selkoe, Dennis J. Senda, Akiyoshi	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-05-P WS06-27-O/P WS06-28-P WS02-03-P WS02-12-P WS02-12-P WS09-14-O/P WS09-24-P WS09-24-P WS04-08-O/P WS12-08-O/P
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Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas Pruksakorn, Vannak Puthong, Songchan Putri, Sahnaz Vivino Pyrdol, Jason Que, Weitao Quintana, Francisco	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P WS28-11-O/P WS22-06-O/P WS17-14-P WS16-12-P Orn WS23-15-P WS23-16-P WS16-21-P Ital WS02-02-P WS22-05-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun Saengchaisukhonkit Saichua, Prasert Saijo, Shinobu Saika, Azusa Saika, Reiko Saiki, Karen Saito, Akatsuki Saito, Fumiji Saito, Hiroaki Saito, Kuniaki Saito, Riho Saito, Risa Saito, Takashi	WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P WS12-14-O/P Varattaya WS17-03-P WS01-20-P WS16-14-P WS11-13-P WS01-20-P WS16-20-P T04 WS11-02-O/P WS28-01-P WS01-01-P WS04-02-O/P WS09-04-P WS10-06-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi Sasaki, Izumi Sasaki, Michihito Sasaki, Noboru Sasaki, So-Ichiro Sasaki, Takanori Sasaki, Tuya Sato, Ayaka Sato, Fumiaki Sato, Katsuaki	SO7-03 illo WS28-10-O/P WS09-11-P WS17-10-P WS04-17-P WS03-02-O/P WS03-03-P WS03-04-P WS03-12-O/P WS28-13-O/P WS28-13-O/P WS25-23-P WS10-04-P WS10-04-P WS10-24-P WS10-25-P WS10-25-P WS10-12-P WS15-05-O/P WS15-19-P WS15-20-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki Selkoe, Dennis J. Senda, Akiyoshi Sendo, Sho Sengiku, Tomoya Senpuku, Hidenobu Seo, Wooseok Setoguchi, Ruka Sewell, Andrew K	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-04-P WS26-05-P WS06-27-O/P WS02-03-P WS02-12-P WS02-12-P WS09-14-O/P WS09-24-P WS09-24-P WS12-14-O/P WS07-05-O/P WS19-09-P WS24-14-P WS07-05-O/P WS24-14-P WS09-09-O/P WS24-14-P WS09-09-O/P WS09-09-O/P WS09-09-O/P WS09-09-O/P
Pongma, Chitsuda Poonpanichakul, Tir Prammananan, The Prat, Alexandre Priest, David G. Prins, Robert Prinz, Marco Proft, Thomas Pruksakorn, Vannak Puthong, Songchan Putri, Sahnaz Vivino Pyrdol, Jason Que, Weitao Quintana, Francisco	○ WS16-21-P aput WS01-09-O/P rdsak WS16-21-P WS23-01-O/P WS01-08-O/P WS07-03-O/P WS17-26-O/P ○ WS28-11-O/P WS17-14-P WS16-12-P Orn WS23-15-P WS23-16-P WS16-21-P Iala WS02-02-P WS22-05-O/P	Ryotokuji, Kenji S. Ismanto, Hendra Sabrina, Saima Sachi, Nozomi Sadanaga, Takayuki Saechue, Benjawan Saegusa, Jun Saengchaisukhonkit Saichua, Prasert Saijo, Shinobu Saika, Azusa Saika, Reiko Saiki, Karen Saito, Akatsuki Saito, Fumiji Saito, Hiroaki Saito, Fumiji Saito, Hiroaki Saito, Kuniaki Saito, Riho Saito, Risa Saito, Takashi Saito, Yasuyuki	WS26-18-P WS10-01-P WS06-09-P WS22-19-P WS06-21-P WS19-12-P WS12-14-O/P Varattaya WS17-03-P WS01-20-P WS16-14-P WS11-13-P WS23-07-O/P WS16-13-P WS16-13-P WS01-13-P WS01-13-P WS04-02-O/P WS09-04-P WS10-06-P WS10-13-O/P WS08-25-P	Saputri, Dianita Susi Sasaki, Atsushi Sasaki, Eita Sasaki, Fumiyuki Sasaki, Harumi Sasaki, Izumi Sasaki, Izumi Sasaki, Michihito Sasaki, Noboru Sasaki, So-Ichiro Sasaki, Takanori Sasaki, Tuya Sato, Ayaka Sato, Fumiaki Sato, Katsuaki	SO7-03 SIO SO7-03 SIO WS28-10-O/P WS09-11-P WS17-10-P WS17-10-P WS03-01-P WS03-02-O/P WS03-03-P WS03-04-P WS03-04-P WS03-12-O/P WS23-17-P WS03-12-O/P WS28-13-O/P WS28-13-O/P WS25-23-P WS10-04-P WS10-04-P WS10-04-P WS10-23-P WS10-24-P WS10-24-P WS10-24-P WS10-24-P WS10-25-P WS10-13-P WS06-10-P WS07-12-P WS15-19-P WS15-19-P WS15-20-P WS15-20-P WS25-16-P WWS04-22-P	Schmidt, Sylvie Schroeder, Jan Schutt, Charles Seino, Ken-ichiro Seki, Naomi M Seki, Takao Sekine, Ami Sekine, Hideharu Sekine, Jigen Sekiya, Toshiki Selkoe, Dennis J. Senda, Akiyoshi Sendo, Sho Sengiku, Tomoya Senpuku, Hidenobu Seo, Wooseok Setoguchi, Ruka Sewell, Andrew K Seya, Tsukasa Shahine, Adam	WS09-19-P WS20-02-O/P S04-02 A02-02 WS07-15-P WS15-17-P WS26-03-P WS26-05-P WS06-28-P WS02-03-P WS02-12-P WS09-14-O/P WS09-24-P WS09-24-P WS12-08-O/P WS12-08-O/P WS19-09-P WS19-10-P WS09-14-O/P WS09-14-O/P WS19-09-P WS19-10-P WS24-14-P WS09-09-O/P WS09-14-O/P WS15-05-O/P WS15-05-O/P S13-05
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Sher, Alan		Shimizu, Shoichi	WS01-23-P	Soga, Kohei Soga, Yasuhiro	WS06-21-P		WS04-20-P
Sherif, Aalaa Alrahm	WS10-01-P	Shimizu, Takeyuki	○WS21-05-P WS22-11-P	Soleinmanpour, Sco			WS18-05-O/P
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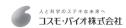




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メディカルインフォメーションセンター 2022年12月作成



私 た ち の イノベ ーションを、 待っている人 がいる。

ギリアドは、信じています。

不可能は、不可能ではない。

まだ見ぬ可能性の源であると。

そんな思いで私たちはHIV、肝炎、

炎症性疾患、そしてがんなどの疾病に

革新的なアプローチで挑み、患者さんのより良い生活を

実現するための治療薬を開発してきました。

新型コロナウイルス感染症の流行にもいち早く対応し、

世界で最初に承認された抗ウイルス薬を開発。

不可能へと挑む勇気、そして患者さんを想う強い気持ちをもって、

一丸となり新たな可能性を生み出してきました。

多くの患者さん、それを支える人たちを守るという強い決意のもと、

日本法人を立ち上げて、10年を越えました。

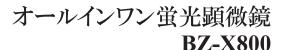
まだまだ、私たちの創業を待つ人がいる。

これからも、この日本で、一緒に。

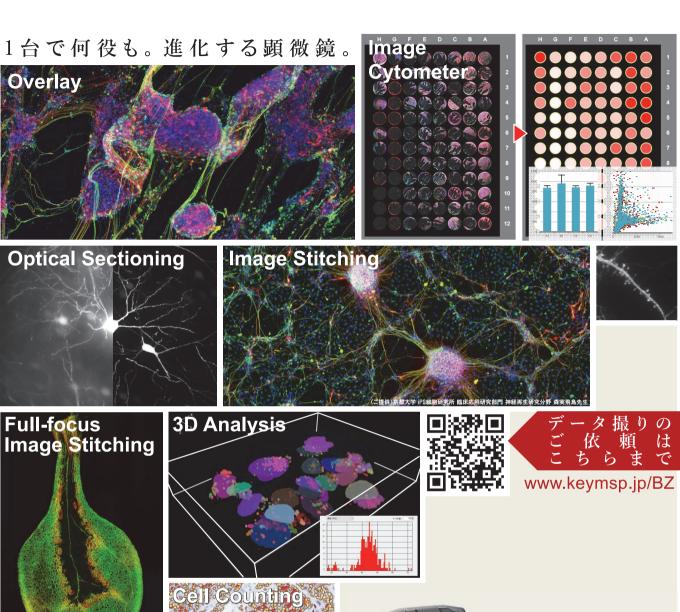
イノベーションを起こし続けることを誓います。

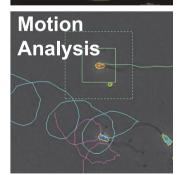
私たちは、ギリアド・サイエンシズ。

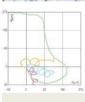
不可能は不可能ではないと、証明するために。















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2023年9月作成 260×180mm



新しい発想で医療に貢献します

ノバルティスのミッションは、より充実した、 すこやかな毎日のために、新しい発想で医療に貢献することです。 イノベーションを推進することで、

治療法が確立されていない疾患にも積極的に取り組み、

新薬をより多くの患者さんにお届けします。

