Looking beyond the horizon of integrated cytokine research

PROGRAM

Cytokines 2017

in Kanazawa, Japan

The 5th Annual Meeting of the International Cytokine and Interferon Society (ICIS 2017)

Our passion ignites progress

At Eisai, *human health care* is our goal. We give our first thoughts to patients and their families as well as helping to increase the benefits health care provides. Our therapies are designed to make a difference and have an impact on patients' lives. We are Eisai, where medicine is more than just our business — it's our passion.

Eisai

hhc
human health care

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General Information

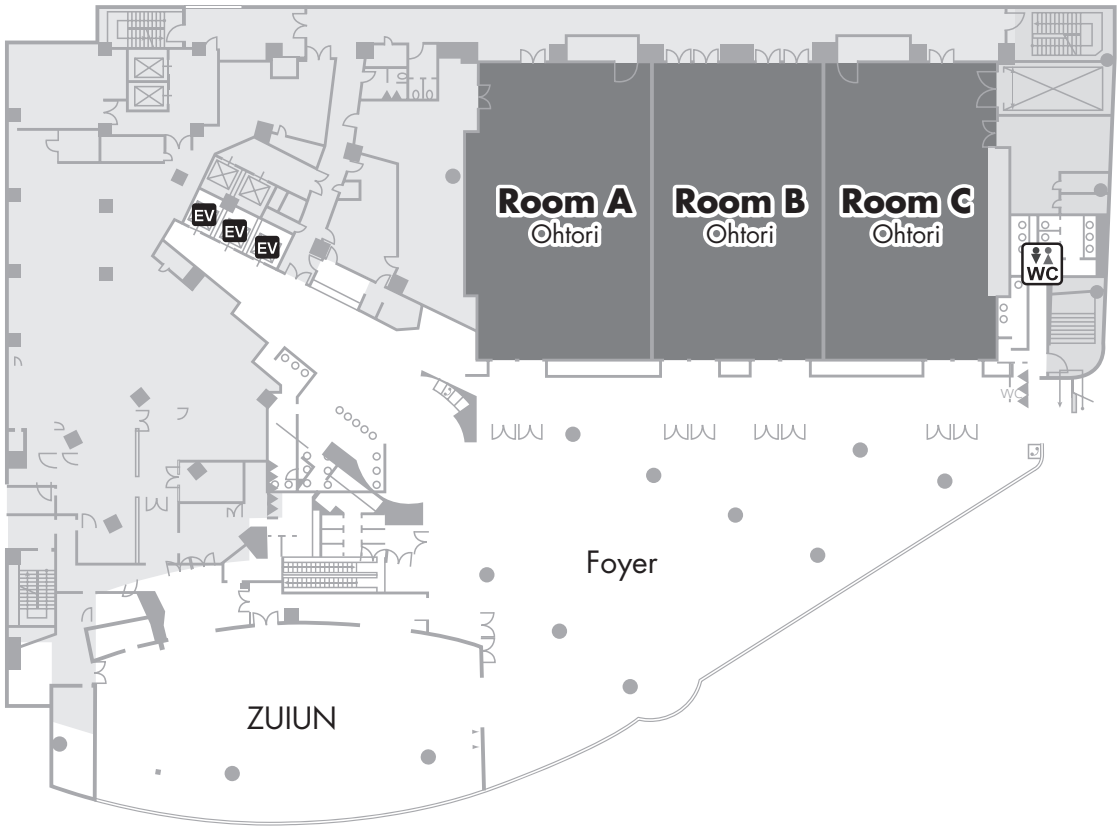
Theme	Looking Beyond the Horizon of Integrated Cytokine, Interferon and Chemokine Research
Host Organization	International Cytokine and Interferon Society
Co-host Organizations	Japanese Society of Interferon & Cytokine Research Japanese Society for Molecular Cellular Biology of Macrophages
Date	October 29th – November 2nd, 2017
Venue	Ishikawa Ongakudo 20-1 Showa-machi, Kanazawa, Ishikawa 920-0856, Japan ANA Crowne Plaza Kanazawa 16-3 Showa-machi, Kanazawa, Ishikawa 920-8518, Japan

Venue – Floor Map + Wi-Fi Access Code

ANA CROWNE PLAZA KANAZAWA

Wi-Fi Network: CrownePlaza_BQT／Access Code: anacp12h

3F

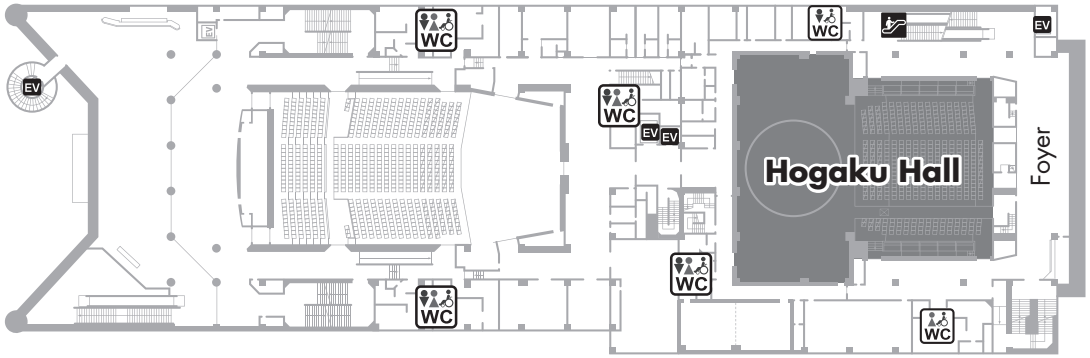


Ishikawa Ongakudo

Wi-Fi Network: Cytokines2017／Access Code: kanazawa

* Wi-Fi is available only in Poster/Exhibition/Tea and Coffee area.

2F



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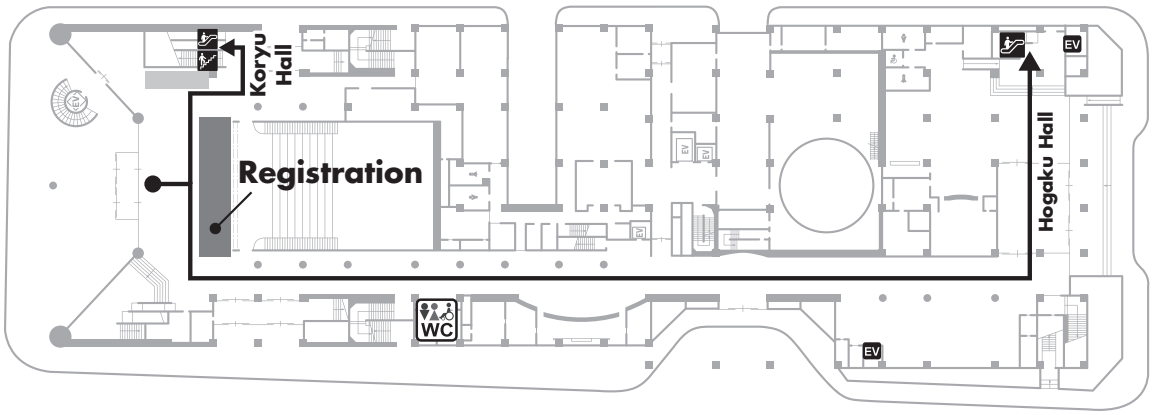

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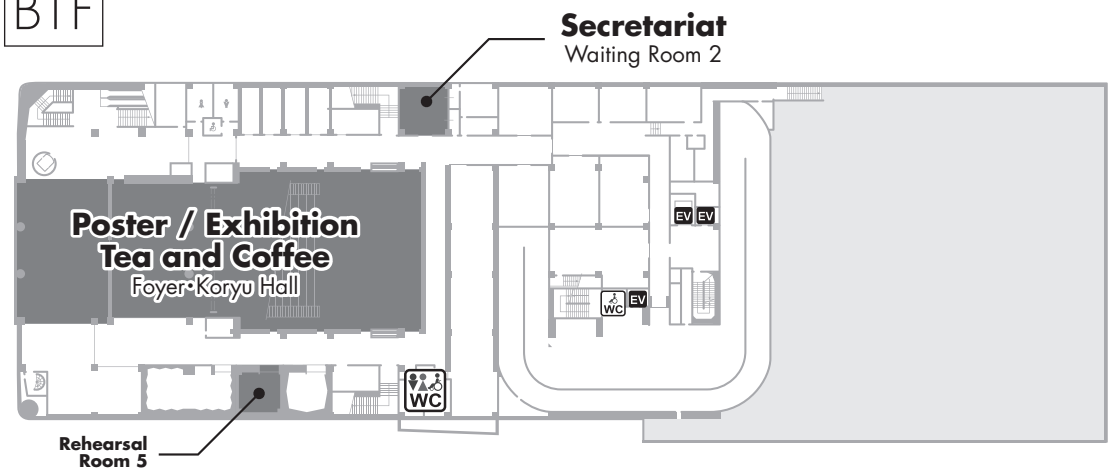

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The Japan College of Rheumatology
The Japan Society for Clinical Immunology
The Japanese Association of Cancer Immunology
The Japanese Biochemical Society
The Japanese Cancer Association
The Japanese Pharmacological SocietyThe Japanese Society of Inflammation and Regeneration
The Molecular Biology Society of Japan

* Listed in alphabetical order

ICIS2017 Congress Secretariat

c/o iCON LLC：1-1-1 Ebisu-minami, Shibuya-ku, Tokyo 150-0022, Japan Tel: +81 3 6871 9421 E-mail:info@icis2017japan.com

Greetings from the Organizing Committee

Dear Colleagues;

It is our great honor and pleasure to host the 5th Annual Meeting of the International Cytokine and Interferon Society, ICIS 2017 in Kanazawa, Japan. In 2013, the ICS (International Cytokine Society) and ISICR (International Society for Interferon and Cytokine Research) merged to form ICIS. ICIS-related international meetings that have been held in Japan previously include the Cytokine Workshop in Kobe in 1993, organized by Professor Tadamitsu Kishimoto, and the Cytokine and Interferon Workshop in Tokyo, also in 1993, organized by Professor Fumimaro Takaku. ICIS2017 is being co-organized with the Japanese Society of Interferon and Cytokine Research (JSICR) and the Japanese Society of Molecular Cell Biology of Macrophages (MMCB).

The field of cytokine and interferon research has seen tremendous scientific progress over the last two decades. Recent developments include the characterization of various mechanisms of cell death and systems for danger signal recognition, the linkage of innate and acquired immunity through chemokines, the discovery of autoinflammatory diseases caused by aberrant activation of the inflammasome, the elucidation of the effects of microbiota on the systemic immune system, clarification of the ontogeny and development of tissue macrophages and DCs, the discovery of innate lymphoid cells, and various advances in the development of biological therapeutics for intractable inflammatory and immune diseases. Some of these therapeutics include the development of antibodies against TNFα, IL-6 receptor, IL-17 and IL-1 receptor antagonist/anti-IL-1β antibody. In addition, the recent development of CAR-T cell therapy and immune-checkpoint antibodies, such as anti-CTLA-4 and anti-PD-1/-L1, has revolutionized our approach to cancer therapy.

The main theme of this year's Meeting of the International Cytokine and Interferon Society is "Looking beyond the horizon of integrated cytokine, interferon, and chemokine research". The meeting will provide an outstanding forum for investigators in basic science and clinical research to present their most recent findings on the role of cytokines (including interferons, chemokines, and various pro-inflammatory/anti-inflammatory factors) in infection, cancer, allergy and autoimmunity, as well as in various other inflammatory and immune diseases. The meeting will also provide an opportunity for updates on the development of novel therapeutic interventions in these fields.

Kanazawa is a beautiful castle town that was ruled from the 17th century to the second half of the 19th century by the influential Maeda family, who invested the region's wealth in the promotion of culture and learning. The town was spared devastation during the second World War, and the Kanazawa's rich culture can still be experienced today. A high-speed railway line from Tokyo to Kanazawa opened in March 2015, improving accessibility and reducing travel time from Tokyo to around 2.5 hours. Participants will enjoy the beauty of the Japanese Alps and the Sea of Japan coastline in their best season, when the autumn leaves are in full color.

The organizing committee is looking forward to hosting an exciting, fruitful and enjoyable meeting in Kanazawa and encourage your participation. We hope that this meeting will promote international collaboration and spur new progress in the field of cytokine, interferon, and chemokine research among scientists from both industry and academia.

Very sincerely yours,

Kouji Matsushima (The University of Tokyo)

Invited speakers

Andrea Ablasser
Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

Shizuo Akira
Osaka University, Japan

Masayuki Amagai
Keio University School of Medicine, Japan

Tomohisa Baba
Kanazawa University, Japan

Glen N. Barber
University of Miami Miller School of Medicine, United States

Anne-Sophie Bergot
University of Queensland, Australia

Gordon D Brown
University of Aberdeen, United Kingdom

Doreen Cantrell
Univeristy of Dundee, United Kingdom

Rachel R. Caspi
National Eye Institute, NIH, United States

Kazuaki Chayama
Hiroshima University, Japan

Ann Chen
National Defense Medical Center, Taiwan

Chen Dong
School of Medicine, Tsinghua University, China

Marc Feldmann
Kennedy Institute of Rheumatology, United Kingdom

Richard Flavell
Yale University School of Medicine, United States

Takashi Fujita
Kyoto University, Japan

Cem Gabay
University Hospitals of Geneva, Switzerland

Frederic Geissmann
Memorial Sloan Kettering Cancer Center, United States

Florent Ginhoux
Agency for Science, Technology and Research (A*STAR), Singapore

Gerald Gleich
School of Medicine University of Utah, United States

John A. Hamilton
University of Melbourne, Australia

Shinichi Hashimoto
Kanazawa University, Japan

Kenya Honda
Keio University School of Medicine, Japan

Shie-Liang Edmond Hsieh
National Yang-Ming University School of Medicine, Taiwan

Christopher Hunter
University of Pennsylvania, United States

Masaru Ishii
Osaka University Graduate School of Medicine, Japan

Toshihiro Ito
Nara Medical University, Japan

Yoichiro Iwakura
Tokyo University of Science, Japan

Akiko Iwasaki
Yale University School of Medicine and Howard Hughes Medical Institute, United States

Carl H. June
University of Pennsylvania, Perelman School of Medicine, United States

Kenji Kabashima
Department of Dermatology, Kyoto University Graduate School of Medicine, Japan

Dhan V. Kalvakolanu
University of Maryland School of Medicine, United States

Yutaka Kawakami
Keio University School of Medicine., Japan

Khalid S. A. Khabar
King Faisal Specialist Hospital and Research Centre, Saudi Arabia

Motoko Kimura
Chiba University, Japan

Tadamitsu Kishimoto
Osaka University, Japan

Hiroshi Kiyono
The University of Tokyo, Japan

Christopher A. Klebanoff
Memorial Sloan Kettering Cancer Center, United States

Manfred Kopf
ETH Zürich, Switzerland

James G. Krueger
The Rockefeller University, United States

Masato Kubo
Tokyo University of Science, Japan

Vijay K. Kuchroo
Harvard Medical School and Brigham and Women's Hospital, United States

Atsushi Kumanogo
Graduate School of Medicine, Osaka University, Japan

Kristin M. Leiferman
University of Utah Health Care, United States

Warren Leonard
NIH, United States

Xiaoxia Li
Cleveland Clinic Lerner Research Institute, United States

Dan Littman

New York University School of Medicine, United States

Ekaterina Litvinova
Siberian Branch of the Russian Academy of Sciences, Russia

Richard M. Locksley
University of California at San Francisco, United States

Diane Mathis
Harvard Medical School, United States

Kouji Matsushima
The University of Tokyo, Japan

Nagahiro Minato
Kyoto University, Japan

Laurel Monticelli
Weill Cornell Medical College, Cornell University, United States

Kazuyo Moro
RIKEN IMS, Japan

Masaaki Murakami
Hokkaido University, Japan

Hiroshi Nakajima
Graduate School of Medicine, Chiba University, Japan

Toshinori Nakayama
Chiba University, Japan

Gabriel Nunez
University of Michigan, United States

Luke A.J. O'Neill
Trinity College Dublin, United Kingdom

Toshiaki Ohteki
National University Corporation Tokyo Medical and Dental University, Japan

Keiko Ozato
National Institute of Child Health and Human Development (NICHD), United States

Chung-Gyu Park
Seoul National University College of Medicine, Korea, Republic of (South)

Fiona M Powrie
University of Oxford, United Kingdom

Nancy Reich
Stony Brook University, United States

Shinobu Saijo
Chiba University, Japan

Shimon Sakaguchi
Osaka University, Japan

Shinichiro Sawa
Hokkaido University, Japan

Georg Schett
University Hospital Erlangen, Germany

Ganes C. Sen
Cleveland Clinic, United States

Tsukasa Seya
Hokkaido University Graduate School of Medicine, Japan

Alan Sher
NIH / NIAID, United States

Kazuko Shibuya
University of Tsukuba, Japan

Reiko Shinkura
Nara Institute of Science and Technology, Japan

Koh-Hei Sonoda
Graduate School of Medical Sciences Kyushu University, Japan

Jens V. Stein
University of Bern, Switzerland

Satoshi Takaki
National Center for Global Health and Medicine, Japan

Akinori Takaoka
Hokkaido University, Japan

Hiroshi Takayanagi
The University of Tokyo, Japan

Kiyoshi Takeda
Osaka University Graduate School of Medicine, Japan

Osamu Takeuchi
Kyoto University, Japan

Tsutomu Takeuchi
Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine., Japan

Yoshiya Tanaka
University of Occupational and Environmental Health, Japan

Tadatsugu Taniguchi
The University of Tokyo / Max Planck-The University of Tokyo Center for Integrative Inflammology, Japan

Michio Tomura
Osaka Ohtani University, Japan

Noriko M Tsuji
Bipmedical Research Institute (AIST), Japan

David Vöhringer
Department of Infection Biology, University Hospital Erlangen, Germany

Yingjie Wu
Dalian Medical University, China

Sho Yamasaki
Kyushu University, Japan

Koji Yasutomo
Tokushima University, Japan

Mitsutoshi Yoneyama
Chiba University, Japan

Hiroki Yoshida
Saga University, Japan

Akihiko Yoshimura
Keio University School of Medicine, Japan

Howard A. Young
National Cancer Institute at Frederick, United States

Award Winners

The Seymour and Vivian Milstein Award for Excellence in Interferon and Cytokine Research

Richard A. Flavell, Ph.D., FRS, *Sterling Professor of Immunobiology, Yale University School of Medicine, Investigator, Howard Hughes Medical Institute at Yale*

Dr. Flavell receives the 2017 Seymour and Vivian Milstein Award in recognition of his numerous contributions to cytokine biology. His work has defined and continues to shape our understanding of the pivotal role of cytokines in innate and adaptive immunity and how cytokines contribute to immune mediated diseases.

○ Presentation on Sunday, 29 October, 16:40 – 17:20 in ANA Crowne Plaza "Ohtori" Room B

The ICIS-Biolegend William E. Paul Award for Excellence in Cytokine Research

Alan Sher, Ph.D., *Chief, Laboratory of Parasitic Diseases, NIAID*

Dr. Sher receives the 2017 ICIS-Biolegend William E. Paul Award for defining the role of Th1/Th2 cytokines in parasite infection models. At the same time Sher and his colleagues helped define the regulatory pathways which prevent immunopathology in polarized anti-parasitic responses and in particular elucidating the role of Interleukin-10 induction in that process. In more recent work, the Sher lab has defined the cytokine and eicosanoid pathways regulating host resistance to *Mycobacterium tuberculosis.*

○ Presentation on Wednesday, 1 November, 12:40 – 13:30 in Room: ANA Crowne Plaza "Ohtori" Room C

Honorary Lifetime Membership Award

Ganes Sen, Ph.D., *The Thomas Lord Endowed Chair in Molecular Biology, Lerner Research Institute, Cleveland Clinic*

Dr. Sen receives the 2017 Honorary Lifetime Membership Award for his contributions that have advanced our understanding of the role of IFNs in antiviral responses. He has served in many capacities to the ICIS, most notably his long term involvement as editor in chief of the *Journal of Interferon & Cytokine Research*, and has trained many young scientists who have stayed in the field of cytokines.

○ Presentation on Wednesday, 1 November, 15:30 – 16:05 in Ishikawa Ongakudō Hogaku Hall

ICIS Distinguished Service Award

Eleanor Fish, PhD, *Canada Research Chair in Women's Health & Immunobiology, Senior Scientist, Division of Advanced Diagnostics, Toronto General Research Institute, University Health Network, Associate Chair, International Collaborations & Initiatives and Professor, Department of Immunology*

Dr. Fish receives the 2017 Distinguished Service Award in recognition of her extraordinary contributions to the Society. Dr. Fish, an accomplished, award winning scientist (including the Milstein Award among many others), has contributed tirelessly to the Society in numerous roles over the years, (President, scientific meeting organizer, awards committee co-chair and as a member of several committees) and reaches out internationally, most notably her research activities involves global outreach, specifically to resource poor regions. She is a member of a WHO Working Group to evaluate the therapeutic effectiveness of different vaccine and antiviral interventions against Ebola virus.

○ Award Acceptance on Wednesday, 1 November, 16:25 – 16:35 in Ishikawa Ongakudō Hogaku Hall

Milstein Young Investigator Awards

Ari B Molofsky, *Dept. of Laboratory Medicine, UCSF, San Francisco, United States*

○ Presentation on Wednesday, 1 November, 16:05 – 16:25 in Ishikawa Ongakudō Hogaku Hall

Christian Kanstrup Holm, *Aarhus University Department of Biomedicine, Aarhus C, Denmark*

○ Presentation on Tuesday, 31 October, 17:07 – 17:24 in ANA Crowne Plaza "Ohtori" Room C

Tatsuma Ban, *Yokohama City University Graduate School of Medicine, Yokohama, Japan*

○ Presentation on Tuesday, 31 October, 17:24 - 17:41 in ANA Crowne Plaza "Ohtori" Room C

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

○ Presentation on Tuesday, 31 October, 17:41 - 17:58 in ANA Crowne Plaza "Ohtori" Room C

The Christina Fleischmann Award to Young Women Investigators

Susan Carpenter, *Department of Molecular, Cell and Developmental Biology, University of California Santa Cruz., Santa Cruz, United States*

○ Presentation on Tuesday, 31 October, 18:03 - 18:20 in ANA Crowne Plaza "Ohtori" Room C

The Sidney & Joan Pestka Post-Graduate Award

E. Ashley Moseman, *National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, United States*

○ Presentation on Tuesday, 31 October, 18:43 - 19:00 in ANA Crowne Plaza "Ohtori" Room C

The Sidney & Joan Pestka Graduate Award

Charlotte Nejad, *Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Clayton, Australia*

○ Presentation on Tuesday, 31 October, 18:43 - 19:00 in ANA Crowne Plaza "Ohtori" Room C

The Milstein Travel Awards

Lauren Danielle Aarreberg (United States)
Adrian Achuthan (Australia)
Sebastian Aguirre (United States)
Afsar U. Ahmed (Australia)
Hajera Amatullah (United States)
Scott Biering (United States)
Iain L Campbell (Australia)
Jorge Cervantes (United States)
Yaping Chen (Australia)
Wai Po Chong (China)
Soo-hyun Chung (Japan)
Joseph Thomas Clark (United States)
Sophia Davidson (Australia)
Pamela C De La Cruz-Rivera (United States)
Praik Deb (United States)
Sarah C Edwards (Ireland)
Marlys S Fassett (United States)
Theresa Frenz (Germany)
Serge Y. Fuchs (United States)
Silvia Galván-Peña (United Kingdom)
Michael Paul Gantier (Australia)
Ebrahim Hassan (Germany)
Harry James Hurley (United States)
Akimichi Inaba (United Kingdom)
Min Kyung Jung (Korea, Republic of (South))
Takeshi Kawabe (United States)
You-Me Kim (Korea, Republic of (South))
George Kollias (Greece)
Andrew Charles Larner (United States)
Chien-Kuo Lee (Taiwan)
Suki Lee (Hong Kong)
Dan Li (United States)
Niamh E Mangan (Australia)
Elizabeth Rebecca Mann (United Kingdom)
Katrina Mar (United States)
Lisa A Mielke (Australia)
Hong-Hua Mu (United States)
David Olagnier (Denmark)
Dane Parker (United States)
Shauna Quinn (Ireland)
Carl D Richards (Canada)
Johannes Schwerk (United States)
Ellora Sen (India)
Luisa Margarida da Fonte Senra (Switzerland)
Nikaïa Smith (Germany)
Peter Staeheli (Germany)
Megan L Stanifer (Germany)
Justin Taft (United States)
Ken Takashima (Japan)
Ce Tang (Japan)
Michelle Tate (Australia)
Hock L Tay (Australia)
Michele Teng (Australia)
Le Son Tran (Australia)
Evelyn Tsantikos (Australia)
Julio Cesar Valencia (United States)
Theresa L. Wampler Muskardin (United States)
Kathryn McGuckin Wuertz (United States)
Yang Xu (Japan)
Chao Yang (Australia)
Di Yu (Australia)
Annett Ziegler (Germany)

Kishimoto Travel Award

Overseas

Jun Abe
Desiree Anthony
Sharee Ann Basdeo
Cristina Bergamaschi
Mithun Das
Virginie Deswaerte
Navneet Kumar Dubey
Tania Dubovik
Wentao Fan
Rafael Casarin Penha Filho
Adriana Forero
Yu-Hsiang Hsu
Wanwan Huai
Vladimir Jurisic
Chidchamai Kewcharoenwong
Md Gulam Musawwir Khan
Vijay Kumar
Kee Woong Kwon
Ting-Yu Lai
Kate Lawlor
Hyun-Cheol Lee
Jaeseon Lee
Jaechan Leem
Samuel Maldonado
Yohei Mikami
Veronica A. Obregon-Perko
Arif Ahmad Pandit
Jeongho Park
Jin-Sil Park
Arifuzzaman Sarder
Martijn J. Schuijs
Peter See
Su Song
Pia-Katharina Tegtmeyer
Piotr Topolewski
Po-Chun Tseng
Thomas Whitehead
Xiaoqin Yang
Hyun Seung Yoo
Jeong-Hwan Yoon
Karolina Zakrzewska

Japan

Yukiko Akahori
Mitsuhiro Akiyama
Muhammad Baghdadi
Sho Hanakawa
Tetsuo Hasegawa
Masahisa Hemmi
Ryoyo Ikebuchi
Takashi Ito
Masashi Kanayama
Kenta Kikuchi
Yoshitaka Kimura
Satoshi Koga
Hideo Kudo
Makoto Kuwahara
Kaito Masaki
Taiki Mihara
Taiki Moriya
Ryunosuke Muro
Yoshinari Nakatsuka
Allah Nawaz
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Miyuki Watanabe
Rikio Yabe

Acknowledgement

Organizing Committee wishes to gratefully acknowledge the following companies / foundations for supporting ICIS2017.

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Ishikawa Prefecture
Kanazawa City
The Federation of Pharmaceutical Manufacturers' Associations of JAPAN

Speakers' and Poster Instructions

Speakers' Instruction

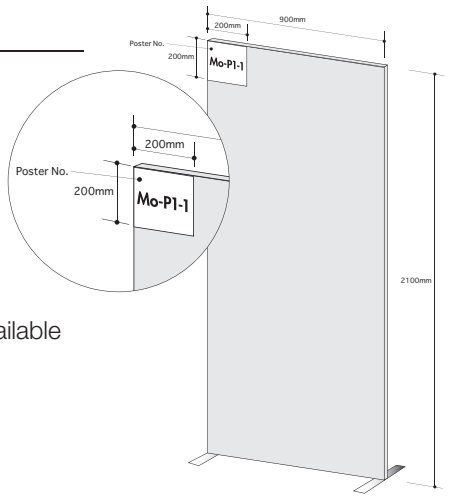
- There is NO Speaker Ready Room. Please bring your own laptops and any adapters required to the operator's desk in your session room at least 15 minutes before your session begins and stay near the podium.
- We ask that all speakers be ready at the beginning of the session. We will have VGA switchers available that will accommodate six laptops at one time. When it is your time to present, it will be only necessary to switch to your laptop.
- It is recommended that your slide size is in the standard (4:3) ratio.
- Please set the computer screen resolution for your computer to 1024 × 768 for the best result.
- We strongly encourage you to have a backup of your presentation on a USB storage device in the event your laptop has a technical problem or is incompatible with the LCD projector.
- There will also be a countdown timer to aid the speakers in keeping track of time.

Poster Instruction

- Presentation date and time, Set up and Tear down

Odd numbers:
P1, P3, P5, P7, P9, P11, P13, P15
Monday, October 30th
Set up： 09:00-15:00
Presentation： 19:10-21:10
Tear down： 21:10-21:30

Even numbers:
P2, P4, P6, P8, P10, P12, P14
Tuesday, October 31st
Set up： 09:00-15:00
Presentation： 19:10-21:10
Tear down： 21:10-21:30



- In order to enable discussion with other participants you are requested to be available at your poster during presentation time above.
- Poster boards, push pins and poster numbers are prepared by secretariat.
- Size of poster boards: H210cm x W90cm
- Recommended size of your poster is H118.9cm x W84.1cm "A0 format".

Social Events

Welcome Reception	October 29th, Sunday 18:00-20:00 ANA Crowne Plaza Kanazawa "Zuiun" Free of charge
Conference Banquet	November 1st, Wednesday 18:00-20:00 (18：00 Door Open) ANA Crowne Plaza Kanazawa "Ohtori" 5,000 JPY

Food and Drink

Coffee	Coffee is available in the exhibition corner located in Ishikawa Ongakudo.
Lunch	Box lunches will be provided at sponsored Lunchtime Lectures.
Refreshments	Light refreshments will be served at sponsored Evening Symposia.
Wine and Cheese	Wine and cheese will be provided during poster sessions.

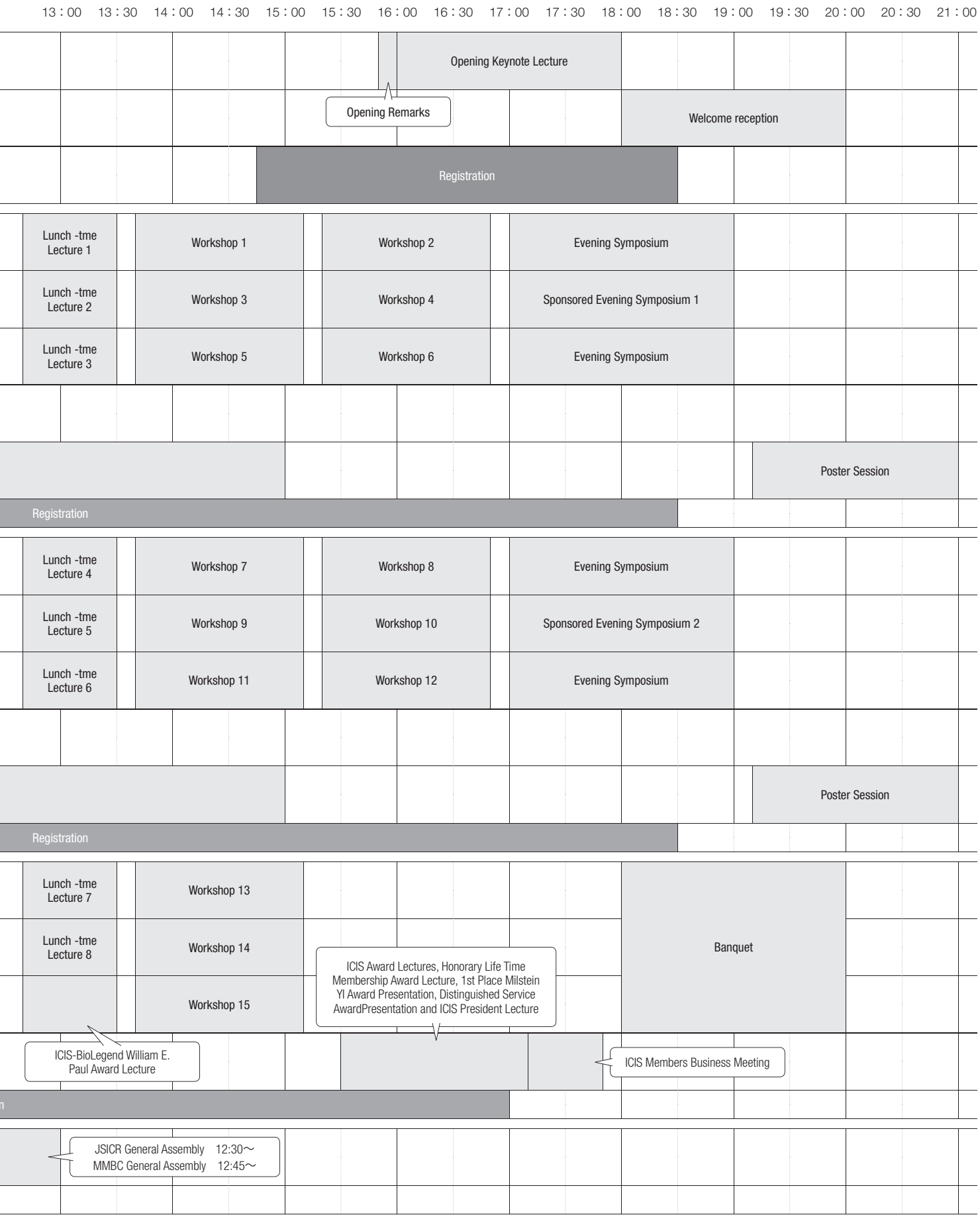
Meeting App with Interactive Program & Abstracts

To access the Mobile App, scan the QR Code to the right or put this URL in your web browser:

https://coms.events/ICIS2017

Program at a glance

DATE	VENUE	ROOM	8 : 00	8 : 30	9 : 00	9 : 30	10 : 00	10 : 30	11 : 00	11 : 30	12 : 00	12 : 30
Sunday, 29 October 2017	ANA CROWNE PLAZA KANAZAWA	Ohtori										
		Zuiun										
	Ishikawa Ongakudo	Entrance Hall										
Monday, 30 October 2017	ANA CROWNE PLAZA KANAZAWA	A【Ohtori 1/3】										
		B【Ohtori 1/3】										
		C【Ohtori 1/3】										
	Ishikawa Ongakudo	Hogaku Hall			Keynote Lecture 4		Symposium 1					
		Interchange Hall					Poster Set up					
		Entrance Hall										
Tuesday, 31 October 2017	ANA CROWNE PLAZA KANAZAWA	A【Ohtori 1/3】										
		B【Ohtori 1/3】										
		C【Ohtori 1/3】										
	Ishikawa Ongakudo	Hogaku Hall			Keynote Lecture 5		Symposium 2					
		Interchange Hall					Poster Set up					
		Entrance Hall										
Wednesday, 1 November 2017	ANA CROWNE PLAZA KANAZAWA	A【Ohtori 1/3】										
		B【Ohtori 1/3】										
		C【Ohtori 1/3】										
	Ishikawa Ongakudo	Hogaku Hall			Keynote Lecture 6		Symposium 3					
		Entrance Hall									Registratio	
Thursday, 2 November 2017	Ishikawa Ongakudo	Hogaku Hall			Keynote Lecture 7		Symposium 4					
		Entrance Hall					Registration					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Opening Keynote Lecture
Opening Remarks
Welcome reception
Registration
Lunch -tme Lecture 1
Workshop 1
Workshop 2
Evening Symposium
Lunch -tme Lecture 2
Workshop 3
Workshop 4
Sponsored Evening Symposium 1
Lunch -tme Lecture 3
Workshop 5
Workshop 6
Evening Symposium
Poster Session
Registration
Lunch -tme Lecture 4
Workshop 7
Workshop 8
Evening Symposium
Lunch -tme Lecture 5
Workshop 9
Workshop 10
Sponsored Evening Symposium 2
Lunch -tme Lecture 6
Workshop 11
Workshop 12
Evening Symposium
Poster Session
Registration
Lunch -tme Lecture 7
Workshop 13
Lunch -tme Lecture 8
Workshop 14
Workshop 15
Banquet
ICIS Award Lectures, Honorary Life Time Membership Award Lecture, 1st Place Milstein YI Award Presentation, Distinguished Service AwardPresentation and ICIS President Lecture
ICIS-BioLegend William E. Paul Award Lecture
ICIS Members Business Meeting
JSICR General Assembly 12:30～
MMBC General Assembly 12:45～

Program

Sunday, 29 October 2017

15：55～16：00 **Opening Remarks** **ANA Crowne Plaza "Ohtori"**

16：00～18：00 **Session：Opening Keynote Lectures 1-3**

Room: ANA Crowne Plaza "Ohtori"

Chair/s: Kouji Matsushima, Akihiko Yoshimura, Tadatsugu Taniguchi

16：00～

Su-K-1

From the discovery of IL-6 to the development of anti-IL-6R anti body.

Tadamitsu Kishimoto

Laboratory of Immune Regulation, Immunology Frontier Research Center, Osaka University, Osaka, Japan

16：40～

Su-K-2

Anti-microbial action of inflammasomes at the mucosa

Richard A Flavell

Yale University and Howard Hughes Medical Institute, New Haven, CT, United States

17：20～

Su-K-3

STAT3 is a master regulator of epithelial identity in KRAS driven tumorigenesis

Nancy C Reich, Alkiviadis Pierrajeas, Stephen D'Amico, Oleski Petrenko

Department of Molecular Genetics and Microbiology, Stony Brook University, Stony Brook, NY, United States

18：00～20：00 **Welcome Reception** **ANA Crowne Plaza "Zuiun"**

Program

Monday, 30 October 2017

08：30～09：20 **Session：Keynote Lecture 4**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Takashi Fujita

08：30～ Mo-K4-1

Krebs Cycle repurposed for cytokines

Luke A.J. O'Neill

Trinity College Dublin, Dublin, United Kingdom

09：30～12：10 **Session：Symposium 1, Philip Marcus Memorial Symposium ~ "Innate immunity and cytokines"**

This symposium is partly sponsored by the JICR / Mary Ann Liebert, Inc.

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Ganes C. Sen, Gordon D Brown

Dr. Takashi Fujita is the Philip Marcus Memorial Lecture's speaker this year.

09：30～ Mo-S1-1

Regnase-1 is a key endoribonuclease that controls the inflammatory and immune responses

Shizuo Akira

Laboratory of Host Defense, WPI Immunology Frontier Research Center, and Department of Host Defense, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

09：55～ Mo-S1-2

STING Controlled Innate Immunity; Infectious Disease, Inflammation and Cancer.

Glen N. Barber

Department of Cell Biology, University of Miami Miller School of Medicine,, Miami, United States

10：20～ Mo-S1-3

MelLec: A new player in antifungal immunity

Gordon D Brown

University of Aberdeen, Aberdeen, United Kingdom

10：45～10：55 **Break**

10：55～

Mo-S1-4

Gain of Function Mutation of RIG-I-Like Receptor Causes Autoimmune Symptoms

Ahmed Abu Tayeh[1, 2], Lianne Francine Emralino[1, 2], Taisuke Ohto[1], Shota Shimizu[1, 2], Hideo Onizawa[1], Nobumasa Soda[1, 2], Sumin Lee[1, 2], Yuki Shimada[1, 2], Masahide Funabiki[1], Masamichi Takami[3], Hiroki Kato[1, 2], Takashi Fujita[1, 2]

[1]Laboratory of Molecular Genetics, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [2]Laboratory of Molecular Cell Biology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan, [3]Department of Dental Pharmacology, School of Dentistry, Showa University, Tokyo, Japan

11：20～

Mo-S1-5

Metabolic regulation of innate immune function at barrier surfaces

Laurel Monticelli

Weill Cornell Medicine, Cornell University, New York, United States

11：45～

Mo-S1-6

Recognition of intracellular metabolites through C-type lectin receptors

Sho Yamasaki

Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan

12：40～13：30

Session：Lunch-time Lecture 1, Sponsored by: ONO PHARMACEUTICAL CO., LTD.

Room: ANA Crowne Plaza "Ohtori" Room A

Chair/s: Kouji Matsushima

12：40～

Mo-L1-1

Immune checkpoint blockade therapy in cancer and beyond

Nagahiro Minato

Graduate School of Medicine, Kyoto University, Kyoto, Japan

12：40～13：30

Session：Lunch-time Lecture 2, Sponsored by: Pfizer Japan Inc.

Room: ANA Crowne Plaza "Ohtori" Room B

Chair/s: Yoshiya Tanaka

12：40～

Mo-L2-1

Phase-orientated disease control by cytokines- lessons from rheumatoid arthritis

Georg Schett

University of Erlangen, Nuremberg, Germany

12：40～13：30

Session：Lunch-time Lecture 3, Sponsored by: Maruho Co., Ltd. / Novartis International AG

Room: ANA Crowne Plaza "Ohtori" Room C

Chair/s: Masayuki Amagai

12：40～

Mo-L3-1

The Role of IL-17A in Psoriasis Pathogenesis and Treatment

James G. Kruegera

The Rockefeller University, New York, United States

13：40～15：10

Session：Workshop 1, “Innate immunity and infection”

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Mitsutoshi Yoneyama, Shinobu Saijo

13：40～

Mo-WS1-1

Roles of cytokines in the anti-fungal immunity

Shinobu Saijo

Medical Mycology Research Center, Chiba University, Chiba, Japan

13：50～

Mo-WS1-2

Pathogenic fungus, *Trichophyton mentagrophytes* negatively regulates host immune responses via Siglec receptors.

Yasunobu Miyake[1], Eri Suematsu[1], Shinobu Saijo[2], Sho Yamasaki[2, 3, 4], Hiroki Yoshida[1]

[1]Saga University, Faculty of Medicine, Saga, Japan, [2]Chiba University, Medical Mycology Research Center, Chiba, Japan, [3]Osaka University, Research Institute for Microbial Diseases, Osaka, Japan, [4]Kyushu University, Medical Institute of Bioregulation, Fukuoka, Japan

14：00～

Mo-WS1-3

Two distinct ITAM-coupled receptors recognize mycobacterial mycolic acid-containing lipids and differently regulate immune responses.

Ei'ichi Iizasa[1], Takayuki Uematsu[2], Yasushi Chuma[3], Hideyasu Kiyohara[3], Mio Kutobta[4], Masayuki Umemura[5], Goro Matsuzaki[5], Sho Yamasaki[6], Hiromitsu Hara[1]

[1]Department of Immunology, Division of Infection and Immunity, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan, [2]Research and Development Department, Japan BCG Laboratory, Tokyo, Japan, [3]Division of Biomedical Laboratory, Department of Biomedical Research Kitasato University Medical Center, Saitama, Japan, [4]Department of Biomolecular Sciences, Faculty of Medicine, Saga University, Saga, Japan, [5]Tropical Biosphere Research Center University of the Ryukyus, Naha, Japan, [6]Department of Molecular Immunology, Division of Host Defense, Research Institute for Microbial Disease, Osaka University,, Osaka, Japan

14：10～

Mo-WS1-4

Immune-modulating capacity of a plant-derived dsRNA and its potential applications

Takara Hajake[1, 2], Dacquin Muhandwa Kasumba[1, 2], Haruka Oda[1, 2], Keita Matsuno[3], Masatoshi Okamatsu[4], Yoshihiro Sakoda[3, 4], Hiroki Kato[1, 2], Takashi Fujita[1, 2]

[1]Laboratory of Molecular Genetics, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [2]Laboratory of Molecular and Cellular Immunology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan, [3]Global Station for Zoonosis Control, Global Institution for Collaborative Research and Education (GI-CoRE), Hokkaido University, Sapporo, Japan, [4]Laboratory of Microbiology, Department of Disease Control, Faculty of Veterinary Medicine, Hokkaido University, Sapporo, Japan

14：20～

Mo-WS1-5

cGAS-STING signaling is required for host defense from WNV neuropathology

Kathryn McGuckin Wuertz[1, 2, 4, 5], Emily A. Hemann[2, 5], Courtney Wilkins[2, 5], Jessica Snyder[3], Piper M. Treuting[3], Michael Gale Jr.[1, 2, 5]

[1]University of Washington, Department of Global Health, Seattle, WA, United States, [2]University of Washington, Department of Immunology, Seattle, WA, United States, [3]University of Washington, Department of Comparative Medicine, Seattle, WA, United States, [4]Department of Defense; United States Army Medical Department, San Antonio, TX, United States, [5]Center for Innate Immunity and Immune Disease, University of Washington, Seattle, WA, United States

14：30～

Mo-WS1-6

Dengue virus degrades cGAS to prevent mitochondrial DNA sensing during infection

Sebastian Aguirre[1], Priya Luthra6, Maria Teresa Sanchez[1, 2], Ana Maria Maestre[1], Tongtong Zhu[1, 3], Jessica Pintado Silva[1, 3], Laurece Webb[1, 3], Dabeiba Bernal-Rubio[1], Alexander Solovyov[5], Benjamin Greenbaum[5], Viviana Simon[1, 2, 4], Christopher Basler[6], Lubbertus Mulder[1, 2], Adolfo Garcia-Sastre[1, 2, 4], Ana Fernandez-Sesma[1, 3, 4]

[1]Department of Microbiology, Icahn School of Medicine at Mount Sinai, New York, United States, [2]Global Health and Emerging Pathogens Institute, Icahn School of Medicine at Mount Sinai, New York, United States, [3]Graduate School of Biological Sciences, Icahn School of Medicine at Mount Sinai, New York, United States, [4]Department of Medicine, division of Infectious Diseases, Icahn School of Medicine at Mount Sinai, New York, United States, [5]Tisch Cancer Institute, Division of Hematology and Medical Oncology, Department of Medicine, Department of Pathology, New York, United States, [6]Center for Microbial Pathogenesis, Institute for Biomedical Sciences, Georgia State University, Atlanta, United States

14：40～

Mo-WS1-7

In vivo evasion of MxA by avian influenza viruses requires human signature in the viral nucleoprotein

Christoph M. Deeg[1], Ebrahim Hassan[1, 2, 3, 4], Pascal Mutz[1], Lara Rheinemann[1], Veronika Götz[1], Linda Magar[1], Mirjam Schilling[1], Carsten Kallfass[1], Cindy Nürnberger[1, 2], Sébastien Soubies[1], Georg Kochs[1], Otto Haller[1], Martin Schwemmle[1], Peter Staeheli[1]

[1]Institute of Virology, Medical Center University of Freiburg, Freiburg, Germany, Freiburg, Germany, [2]Spemann Graduate School of Biology and Medicine (SGBM), University of Freiburg, Freiburg, Germany, [3]Microbiology Department, Faculty of Science, Ain Shams University, Cairo, Egypt, Cairo, Egypt,
[4]These authors contributed equally to this work, Freiburg, Germany

14：50～

Mo-WS1-8

Targeting of viral replication complexes by LC3-guided interferon-inducible GTPases

Seungmin (Sam) Hwang[1, 2, 3], Scott B. Biering[2], Jayoung Choi[1], Hailey M. Brown[3]

[1]The University of Chicago, Department of Pathology, Chicago, United States,
[2]The University of Chicago, Committee on Microbiology, Chicago, United States,
[3]The University of Chicago, Committee on Immunology, Chicago, United States

15：00～

Mo-WS1-9

Gate-16 is required for LC3-independent antimicrobial host defense through cytosolic distribution of interferon-inducible GTPases.

Miwa Sasai[1, 2], Masahiro Yamamoto[1, 2]

[1]Department of Immunoparasitology, Research Institute for Microbial Diseases, Osaka University, Osaka, Japan,
[2]Laboratory of Immunoparasitology, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan

13：40～15：10 **Session：Workshop 3, "Cytokines in skin inflammatory diseases"**

Room: ANA Crowne Plaza "Ohtori" Room B

Chair/s: Kristin M. Leiferman, Masayuki Amagai

13：40～

Mo-WS3-1

Itch and cytokines

Kristin M Leiferman

Department of Dermatology, University of Utah, Salt Lake City, Utah, United States

14：00～

Mo-WS3-2

Critical role of CCR7 in peripheral tolerance to CD4+ T cells specific for desmoglein 3 (Dsg3), an autoantigen in pemphigus vulgaris

Masayuki Amagai[1, 2], Hisato Iriki[1], Hayato Takahashi[1]

[1]Department of Dermatology, Keio University School of Medicine, Tokyo, Japan, [2]Laboratory for Skin Homeostasis, RIKEN Center for Integrative Medical Sciences, Tsurumi, Japan

14：20～

Mo-WS3-3

Pathogenesis of autoreactive Th17 cells is driven by homeostatic cytokines stimulated by commensal microbiota

Shunsuke Chikuma[1], Hayato Takahashi[2], Masayuki Amagai[2], Akihiko Yoshimura[1]

[1]Department of Microbiology and Immunology, School of Medicine, Keio University, Tokyo, Japan, [2]Department of Dermatology, School of Medicine, Keio University, Tokyo, Japan

14：30～

Mo-WS3-4

IL-17E activates M2 macrophages to produce IL-8 and favors the recruitment of neutrophils in psoriatic skin.

Luisa Margarida da Fonte Senra, Romaine Stalder,
Wolf-Henning Boehncke, Nicolò Brembilla

Department of Pathology and Immunology, University of Geneva,, Geneva, Switzerland

14：40～

Mo-WS3-5

IL-10 derived from regulatory T cells in the skin limits immune responses in percutaneous sensitization

Sho Hanakawa, Akihiko Kitoh, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

14：50～

Mo-WS3-6

Interleukin-31 Modulates Cutaneous Th2 Inflammation

Marlys S Fassett[1, 2], K Mark Ansel[2]

[1]Department of Dermatology, University of California - San Francisco, San Francisco, United States, [2]Department of Microbiology & Immunology, University of California - San Francisco, San Francisco, United States

15：00～

Mo-WS3-7

Establishment of a short and predictive mechanistic mouse model to support the development of topical JAK inhibitors

Paola Lovato[1], Susanne Knoth Clausen[1], Daniel Rodriguez Greve[2]

[1]Skin Research, LEO Pharma A/S, Ballerup, Denmark, [2]Drug Design, LEO Pharma A/S, Ballerup, Denmark

13：40〜15：10

Session：Workshop 5, “Genetic disorders in cytokines and inflammation”

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Koji Yasutomo, Warren Leonard

13：40〜

Mo-WS5-1

Genetics of familial inflammatory disorders

Koji Yasutomo

Tokushima University, Tokushima, Japan

14：00〜

Mo-WS5-2

Mutation of arginine 285 in IRF3 to glutamine selectively impairs activation of IRF3 by STING and TRIF dependent pathways.

Line Lykke Andersen[1], Louise Kragh Dalskov[1], Hans Henrik Gad[1], Trine Hyrup Mogensen[2], Rune Hartmann[1]

[1]Department of Molecular Biology and Genetics, Aarhus University, Aarhus. Denmark., Aarhus, Denmark, [2]Department of Infectious Diseases, Aarhus University Hospital,, Aarhus, Denmark

14：10〜

Mo-WS5-3

ADAR1 Deficiency Linked to Aicardi-Goutiéres Syndrome Causes Cell Death from RNase L Activation

Robert H Silverman[1], Shuvojit Banerjee[1], Yize Li[2], Manisha Talukdar[3], Stephen A Goldstein[2], Beihua Dong[1], Frank Sicheri[3], Susan R Weiss[2]

[1]Department of Cancer Biology, Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio, United States, [2]Department of Microbiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, United States, [3]Program in Systems Biology, Lunenfeld-Tanenbaum Research Institute, Mount Sinai Hospital, Toronto, Ontario, Canada

14：20〜

Mo-WS5-4

γc Family Cytokines, Immunodeficiency, and the Fine-tuning of Cytokine Signaling

Warren Leonard, Peng Li, Suman Mitra, Edwin Wan, Rosanne Spolski, Jian-Xin Lin

Laboratory of Molecular Immunology and the Immunology Center, National Heart, Lung, and Blood Institute, Bethesda, United States

14：40〜

Mo-WS5-5

XIAP deficiency results in excess NLRP3 inflammasome activation and cell death as a consequence of TLR-MyD88 induced cIAP1-TRAF2 degradation

Kate Lawlor[1, 2], Rebecca Feltham[1, 2], Monica Yabal[3], Stephanie Conos[1, 2], Kaiwen Chen[4], Tan Nguyen[1, 2], Cathrine Hall[1], Simon Chatfield[1, 2], Damian D'Silva[1], Kenneth Pang[5], Kate Schroder[4], John Silke[1, 2], David Vaux[1, 2], Philipp Jost[3], James Vince[1, 2]

[1]Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, [2]Department of Medical Biology, The University of Melbourne, Parkville, Australia, [3]III. Medical Department for Hematology and Oncology, Klinikum rechts der Isar, Technische Universitat Munchen, Munchen, Germany, [4]Institute for Molecular Bioscience and Centre for Inflammation and Disease Research, The University of Queensland, St Lucia, Australia, [5]Department of Paediatrics, University of Melbourne, Parkville, Australia

14：50～

Mo-WS5-6

Gain of function of MDA5 in CD11c-expressing cells is sufficient to induce lupus-like nephritis

Shota Shimizu[1, 2], Yuki Shimada[1, 2], Hiroki Kato[1, 2], Takashi Fujita[1, 2]

[1]Laboratory of Molecular Genetics, Department of Genetics and Molecular Biology, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [2]Laboratory of Molecular and Cellular Immunology, Department of Molecular and Cellular Biology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan

15：00～

Mo-WS5-7

Virus-induced IFN-λ4 potently blocks IFN-α signaling by ISG15/USP18 in HCV infection

Seon-Hui Hong

Korea Advanced Institute of Science and Technology, Daejeon, Korea, Republic of (South)

15：20～16：50

Session：Workshop 2, “Allergic disease”

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: David Vöhringer, Hiroshi Nakajima

15：20～

Mo-WS2-1

Regulation of type 2 immune responses by components of the innate and adaptive immune system.

David Vöhringer

Department of Infection Biology, University Hospital Erlangen, Nuremberg, Germany

15：40～

Mo-WS2-2

Inhibition of house dust mite-induced Th2 responses by Allergin-1 immunoreceptor on dendritic cells

Satoko Tahara-Hanaoka[1, 3], Haruka Miki[1, 2], Kaori Hitomi[1], Mariana Silva Almeida[1], Kanako Iwata[1], Kazumasa Kanemaru[1], Shiro Shibayama[4], Masato Kubo[5, 6], Takayuki Sumida[2], Akira Shibuya[1, 3]

[1]Department of Immunology, Tsukuba-city, Japan, [2]Department of Internal Medicine, Tsukuba-city, Japan, [3]and Life Science Center of Tsukuba Advanced Research Alliance (TARA), Faculty of Medicine, University of Tsukuba, Tsukuba-city, Japan, [4]Research Center of Immunology, Tsukuba Institute, Ono Pharmaceutical Co., Ltd., Tsukuba-city, Japan, [5]Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Noda-city, Japan, [6]Laboratory for Cytokine Regulation, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama-city, Japan

15：50～

Mo-WS2-3

IL-22 induces Reg3γ production from lung epithelial cells and inhibits allergic airway inflammation in house dust mite-induced asthma models

Takashi Ito[1], Koichi Hirose[1], Yoshiyuki Goto[2], Hiroshi Kiyono[3], Hiroshi Nakajima[1]

[1]Department of Allergy and Clinical Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan., Chiba City, Japan, [2]Department of Molecular Immunology, Medical Mycology Research Center, Chiba University, Chiba City, Japan, [3]Division of Mucosal Immunology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo City, Japan

16：00～

Mo-WS2-4

The transcriptional repressor Bach2 controls Th2-type immune response via interaction with Batf

Makoto Kuwahara[1, 2], Tatsuya Sawasaki[3], Masakatsu Yamashita[1, 2]

[1]Department of Immunology, Graduate School of Medicine, Ehime University, Toon, Japan, [2]Division of Immune Regulation, Department of Proteo-Inovation, Proteo-Science Center, Ehime University, Toon, Japan, [3]Division of Cell-Free Sciences, Department of Proteo-Research, Proteo-Science Center, Ehime University, Matsuyama, Japan

16：10～

Mo-WS2-5

The 3D structure of the human IL-3 receptor complex and a novel mode of cytokine signalling

Angel F Lopez[1], Denis Tvovrogov[1], Winne Kan[1], Tim Hercus[1], Sophie Broughton[2], Urmi Dhagat[2], Tracy Nero[2], Karen S CheungTungShin[2], Jeff Babon[3], Jarrod Sandow[3], David Ross[4], Tim Hughes[4], Michael Parker[2]

[1]The Centre for Cancer Biology, SA Pathology and the University of South Australia, Adelaide, Australia, [2]ACRF Rational Drug Discovery Centre, St. Vincent's Institute of Medical Research, and Bio21 Institute, University of Melbourne, Melbourne, Australia, [3]The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [4]SAHMRI and SA Pathology, Adelaide, Australia

16：30～

Mo-WS2-7

A unique DAMP with IL-33-inducing activity increases IL-33-expressing alveolar epithelial type II cells in lungs and induces primary cultured fibroblasts to produce IL-33 in vitro.

Takumi Adachi[1], Koubun Yasuda[1], Taichiro Muto[2], Satoshi Serada[3], Tomohiro Yoshimoto[1], Tetsuji Naka[3], Kenji Nakanishi[1]

[1]Department of Immunology Hyogo College of Medicine, Nishinomiya, Japan, [2]Department of Pediatrics Aichi Medical University, Nagakute, Japan, [3]The center for immune intractable disease, Kochi Medical School, nangokushi, Japan

16：40～

Mo-WS2-8

Roles of T-bet in ILC2-mediated eosinophilic airway inflammation

Hiroshi Nakajima, Ayako Matsuki, Hiroaki Takatori

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

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15：20～16：50

Session：Workshop 4, “Regulation of cytokine production”

Room: ANA Crowne Plaza “Ohtori” Room B

Chair/s: Howard A. Young, Osamu Takeuchi

15：20～

Mo-WS4-1

Posttranscriptional control of pro-inflammatory cytokine expression by Regnase-1 and Roquin

Osamu Takeuchi

Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan

15：40～

Mo-WS4-2

The Dark Side of Interferon-gamma

Howard A. Young[1], Heekyong R. Bae[1], Deborah L. Hodge[1], Guo-Xiang Yang[2], Patrick S.C. Leung[2], Sathi Babu Chodisetti[3], Megan Karwan[4], Julio C. Valencia[1], Michael Sanford[1], John Fenimore[1], Seohyun Kim[1], Ziaur S.M. Rahman[3], Koichi Tsuneyama[5], M. Eric Gershwin[2]

[1]Cancer and Inflammation Program, National Cancer Institute at Frederick and Leidos, Frederick, United States, [2]Division of Rheumatology, Allergy and Clinical Immunology, University of California Davis School of Medicine, Davis, United States, [3]Department of Microbiology and Immunology, Pennsylvania State University College of Medicine, Hershey, United States, [4]Laboratory of Animal Science, National Cancer Institute at Frederick, Frederick, United States, [5]Department of Pathology and Laboratory Medicine, Institute of Biomedical Sciences, Tokushima University Graduate School, Tokushima, Japan

16：00～

Mo-WS4-3

The importance of cGAMP horizontal transfer in DNA damage-driven inflammation

Genevieve Pepin[1, 2], Michael Paul Gantier[1, 2]

[1]Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research., Clayton, Australia, [2]Department of Molecular and Translational Science, Monash University., Clayton, Australia

16：08～

Mo-WS4-4

Malonlyation as a novel inflammatory signal in macrophages

Silvia Galván-Peña[1, 2], Steve DeHaro[3], George Royal[3], Alan Nadin[4], Luke A.J O'Neill[1, 2]

[1]School of Biochemistry and Immunology, Trinity College Dublin, Dublin, Ireland, [2]Immunology Catalyst, GlaxoSmithKline, Stevenage, United Kingdom, [3]R&D Target Sciences, GlaxoSmithKline, Stevenage, United Kingdom, [4]NCE Molecular Tools Group, GlaxoSmithKline, Stevenage, United Kingdom

16：16～

Mo-WS4-5

The protein kinase RIOK3 suppressed MDA5-dependent innate immune response

Ken Takashima[1, 2], Hiroyuki Oshiumi[3], Hiromi Takaki[1], Misako Matsumoto[1], Tsukasa Seya[1]

[1]Department of Vaccine Immunology, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [2]Department of Immunology, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [3]Department of Immunology, Graduate School of Medicine, Kumamoto University, Kumamoto, Japan

16：24～

Mo-WS4-6

Functional diversity of zinc-finger antiviral protein isoforms during viral infection

Johannes Schwerk, Frank Soveg, Kerri Thomas, Lauren Aarreberg, Alison Kell, Justin Roby, Michael Gale Jr., Ram Savan

Department of Immunology, University of Washington, Seattle, United States

16：32～

Mo-WS4-7

Differential antiviral cytokine responses in human astrocyte cells following infection with different Zika virus strains

Mithun Das, Karla Helbig, Ross O'Shea

Department of Physiology, Anatomy and Microbiology, School of Life Sciences, La Trobe University, Bundoora, Australia

16：40～

Mo-WS4-8

Intratumoral IRF5 regulates programs an anti-breast tumor immunity resulting in microenvironment that suppresses the suppression of breast tumor growth and metastasis

Dan Li, Betsy Barnes

Northwell Health, Manhasset, United States

15：20～16：50

Session：Workshop 6, “Cytokines in mucosal immunity”

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Rachel R. Caspi, Yoichiro Iwakura

15：20～

Mo-WS6-1

An eye commensal tunes the immune response at the ocular surface by eliciting IL-17 from mucosal γδ T cells

Anthony J St. Leger[1], Jigar V Desai[1], Rebecca A Drummond[1], Abirami Kugadas[2], Fatimah Almaghrabi[1], Phyllis B Silver[1], Kumarkrishna Raychaudhuri[1], Mihaela Gadjeva[2], Yoichiro Iwakura[3], Michail S Lionakis[1], Rachel R Caspi[1]

[1]National Institutes of Health, Bethesda, MD, United States, [2]Harvard University, Boston, MA, United States, [3]Tokyo University of Science, Tokyo, Japan

15：39～

Mo-WS6-2

The role of Dectin-1-IL-17F axis in the homeostasis of the intestinal immune system

Yoichiro Iwakura

Tokyo University of Science, Chiba, Japan

15：58～

Mo-WS6-3

Pulmonary Regnase-1 functions as a posttranscriptional switch in anti-bacterial immunity

Yoshinari Nakatsuka[1, 2], Takashi Mino[1], Masanori Yoshinaga[1], Takuya Uehata[1], Atsuyasu Sato[2], Tomohiro Handa[2], Kazuo Chin[3], Toyohiro Hirai Hirai[2], Osamu Takeuchi[1]

[1]Laboratory of Infection and Prevention, Department of Virus Research, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [2]Department of Respiratory Medicine, Graduate School of Medicine, Kyoto University, Kyoto, Japan, [3]Department of Respiratory Care and Sleep Medicine, Graduate School of Medicine, Kyoto University, Kyoto, Japan

16：11～

Mo-WS6-4

Lfc controls the formation of neutrophil extracellular traps against Candida albicans infection

Chen-Min Weng[1], Hao-Sen Chiang[1, 2]

[1]Department of Life Science, National Taiwan University, Taipei, Taiwan, [2]Genome and Systems Biology Program, National Taiwan University, Taipei, Taiwan

16：24～

Mo-WS6-5

Polarized interferon-mediated immune response against enteric pathogens reveal novel mechanisms of immune tolerance in the human gut

Megan Stanifer[1], Dorothee Albrecht[2], Sina Bartfeld[4], Jonathan Kagan[3], Takashi Kanaya[5], Steeve Boulant[1, 2]

[1]University Hospital Heidelberg, Heidelberg, Germany, [2]DKFZ, Heidelberg, Germany, [3]Boston Children's Hospital, Boston, United States, [4]Univeristy of Wurzberg, Wurzberg, Germany, [5]RIKEN, Yokohama, Japan

16：37～

Mo-WS6-6

Myd88 deficiency results in dysbiosis favoring generation of spontaneous lymphomas and carcinogen-induced colonic tumors

Rosalba Salcedo[1], John McCulloch[1], Jonathan Badger[1], Colm Ohuigin[1], Kathryn Jones[1], Amiran Dzutsev[1], Ernesto Perez Chanona[1], Loretta Smith[1], Megan Karwan[2], Ren-Ming Dai[2], Soumen Roy[1], Asra Khan[1], Wuxing Yuan[1], Giorgio Trinchieri[1]

[1]Cancer and Inflammation Program, National Cancer Institute, Bethesda, United States, [2]Leidos Biomedical Research, Inc., CIP, Bethesda, United States

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17：00～19：00

Session：Evening Symposium “Cytokines/IFNs in infection” incorporation with Hokkaido University and JSICR

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Akinori Takaoka, Keiko Ozato

17：00～

Mo-ES1-1

Innate sensor-mediated signaling for interferon induction during viral infection

Akinori Takaoka

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

17：24～

Mo-ES1-2

Innate immune sensing of cytosolic chromatin fragments through cGAS promotes senescence

Andrea Abasser

Swiss Federal Institute of Technology, Lausanne, Switzerland

17：48～

Mo-ES1-3

Double-Stranded RNA in Lactic Acid Bacteria Prime Protective Immunity via Interferon-beta

Noriko M Tsuji

Advanced Industrial Science and Technology, Bipmedical Research Institute, Tsukuba, Japan

18：12～

Mo-ES1-4

Chromatin binding factor BRD4 directs development of hematopoietic stem cells and regulates inflammatory responses in macrophages through super-enhancers

Keiko Ozato[1], Wenjing Yang[2], Ryoji Yagi[3], Anne Gegonne[4], Akira Nishiyama[5], Jun Zhu[2], Jingfang Zhu[3], Dinah Singer[4], Anup Dey[1]

[1]NICHD, NHLBI, 3 NIAID, 4NCI, National Institutes of Health 5. Yokohama City University, Bethesda, United States, [2]NHLBI, National Institutes of Health, Bethesda, United States, [3]NIAID,National Institutes of Health, Bethesda, United States, [4]NCI, National Institutes of Health, Bethesda, United States, [5]Yokohama City University, Yokohama, Japan

18：36～

Mo-ES1-5

Chronic hepatitis virus infection and interferon

Kazuaki Chayama

Hiroshima University, Hiroshima, Japan

17：00～19：00

Session：Sponsored Evening Symposium 1, Sponsored by Kyowa Hakko Kirin Co., Ltd.

Room: ANA Crowne Plaza “Ohtori” Room B

Chair/s: Kristin M. Leiferman, Kiyoshi Takatsu

17：00～

Mo-ES2-1

ILC2s: A window into the evolutionary role of allergic immunity

Richard Michael Locksley, Christopher Schneider, Claire O'Leary

University of California, San Francisco and Howard Hughes Medical Institute, San Francisco, United States

17：30～

Mo-ES2-2

IL-5-producing ILC2s and eosinophils in the development of pulmonary arteriopathy

Satoshi Takaki

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

18：00～

Mo-ES2-3

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

Toshinori Nakayama

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

18：30～

Mo-ES2-4

Eosinophilia, Interleukin-5, and Eosinophil-Related Diseases

Gerald Joseph Gleich

Departments of Dermatology and Medicine,University of Utah,, Salt Lake City, Utah, United States

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17：00～19：00

Session：Asian - Middle East - Pacific Cytokine Network

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Yoichiro Iwakura, Khalid S. A. Khabar

17：00～

Mo-ES3-1

Negative Regulation of Cytokine and Interferon Expression

Khalid S. A. Khabar

King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia

17：20～

Mo-ES3-2

The priming effect of β-catenin to NF-κB p65 for interleukin 6 production via TCF4–mediated signaling in macrophage

Chung-Gyu Park[1], Soung-Hoo Jeon[2]

[1]Department of Microbiology and Immunology, Seoul National University College of Medicine, Seoul, Korea, Republic of (South), [2]Xenotransplantation Research Center Seoul National University College of Medicine, Seoul, Korea, Republic of (South)

17：40～

Mo-ES3-3

Syk-CLRs and TLR2 are critical for dengue virus-induced NET formation and thrombocytopenia

Shie-Liang Hsieh

Genomics Research Center, Academia Sinica, Taipei, Taiwan

18：00～

Mo-ES3-4

The role of Mucin-2 and its monosaccharides in regulation of mucosal immunity

Ekaterina Litvinova, Kseniya Achasova, Elena Kozhevnikova, Mariya Zolotykh, Mikhail Moshkin

The Federal Research Center Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia

18：20～

Mo-ES3-5

Growth hormone-IGF1 axis and Nonalcoholic Fatty Liver Disease

Xiaoshuang Wang[1, 2], Dong Yu[1, 2], Yan Liu[1, 2], Xiaoxin Wang[1, 2], Jin Wu[1, 2], Xiangdong Liu[1, 2], Ruijiao Jiang[1, 2], Liyuan Ran[1, 2], Yingjie Wu[1, 2]

[1]Institute of Genome Engineered Animal Models for Human Diseases Dalian Medical University, Dalian, China, [2]Institute of Integrative Medicine Dalian Medical University, Dalian, China

18：40～

Mo-ES3-6

Antigen specific immunotherapy for autoimmune disease targeting dendritic cells

Anne-Sophie Bergot, Meghna Talekar, Hanno Nel, Ryan Galea, Mark Harris, Emma Hamilton-Williams, Ranjeny Thomas

The University of Queensland Diamantina Institute, University of Queensland, Translational Research Institute, Brisbane, QLD, Australia, Woolloongabba, Australia

19：10～21：00 **Poster Session - P1, P3, P5, P7, P9, P11, P13, P15**
Ishikawa Ongakudō Interchange Hall

Program

Tuesday, 31 October 2017

08：30～09：20 **Session：Keynote Lecture 5**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Shimon Sakaguchi

08：30～ Tu-K5-1

Tissue-Tregs and their nurturing cells

Diane Mathis

Harvard Medical School, Boston, United States

09：30～12：10 **Session：Symposium 2, "Autoimmunity, chronic inflammation and cytokines"**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Chen Dong, Vijay K. Kuchroo

09：30～ Tu-S2-1

Interleukin 2 signal transduction and control of T cell biology: more than STATS

Doreen Cantrell

Department of Cell Signalling Immunology, School of Life Sciences, Univeristy of Dundee, Dundee, United Kingdom

09：55～ Tu-S2-2

IL-17 family cytokines in inflammation and cancer

Chen Dong

Institute for Immunology and School of Medicine, Tsinghua University, Beijing, China

10：20～ Tu-S2-3

Overlapping and distinct activties of IL-36 and IL-1 cytokines in inflammatory and infectious diseases

Manfred Kopf, Mareike Bindszus, Jan Kisielow

ETH Zürich/ Institute of Molecular Health Sciences, Department of Biology, Zurich, Switzerland

10：45～10：55 **Break**

10：55～ Tu-S2-4

Cytokines networks in the induction and regulation of Th17 Cells

Vijay K. Kuchroo

Harvard Medical School and Brigham and Women's Hospital, Boston, United States

11：20～

Tu-S2-5

An inflammatory cellular cascade of autoimmune Th17 cells, GM-CSF-producing synovial ILCs and stromal cells in autoimmune arthritis

Shimon Sakaguchi[1], Keiji Hirota[2]

[1]Osaka University, Immunology Frontier Research Center, Osaka, Japan,
[2]Kyoto University, Institute for Frontier Life and Medical Sciences, Kyoto, Japan

11：45～

Tu-S2-6

Osteoimmunology and autoimmunity

Hiroshi Takayanagi

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

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12：40～13：30

Session：Lunch-time Lecture 4, Sponsored by: Illumina K. K.

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Hiroya Kumai

12：40～

Tu-L4-1

Single-cell gene expression in tissues, tumors, and cell lines

Shinichi Hashimoto

Graduate School of Medical Sciences, Kanazawa University, Ishikawa, Japan

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12：40～13：30

Session：Lunch-time Lecture 5, Sponsored by: ROHTO Pharmaceutical Co., Ltd.

Room: ANA Crowne Plaza “Ohtori” Room B

Chair/s: Akihiro Matsukawa

12：40～

Tu-L5-1

Lung Fibrosis: Future Directions in Research

Toshihiro Ito

Department of Immunology, Nara Medical University, Kashihara, Japan

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12：40～13：30

Session：MMCB Sponsored Lunch-time Lecture

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Toshiaki Ohteki

12：40～

Tu-L6-1

Development and functions of resident macrophages

Frederick Geissmann

Memorial Sloan Kettering Cancer Center, New York, United States

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13：40～15：10

Session：Workshop 7, “Signal transduction and metabolic regulation”

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Akihiko Yoshimura, Xiaoxia Li

13：40～

Tu-WS7-1

MyD88/IRAK2-dependent interplay between myeloid and adipocytes in the initiation and progression of obesity-associated inflammatory diseases

Xiaoxia Li

Cleveland Clinic Lerner Research Institute, Cleveland, United States

14：00～

Tu-WS7-2

Induction of regulatory T cells from Th1 cells through metabolic reprograming

Mitsuhiro Kanamori, Akihiko Yoshimura

Department of Microbiology and Immunology, Keio University School of Medicine, Shinjuku-ku, Japan

14：10～

Tu-WS7-3

A critical role of mitochondrial oxidation in the production of type I interferon by human plasmacytoid dendritic cells

Harry James Hurley[1, 2], Zachary Rothkopf[2], Patricia Fitzgerald-Bocarsly[1, 2]

[1]Rutgers New Jersey Medical School, Newark, NJ, United States,
[2]Rutgers School of Graduate Studies, Newark, NJ, United States

14：20～

Tu-WS7-4

Stress-induced dynamic regulation of mitochondrial STAT3 and its association with cyclophilin D reduce mitochondrial ROS production

Andrew Charles Larner, Jeremy A Meir, Moonjung Hyun, Marc Cantwell, Vidisha Raje, Jennifer Sisler

Virginia Commonwealth University, Richmond, United States

14：30～

Tu-WS7-5

Insights into the tumor suppression mechanisms of Suppressor of Cytokine Signaling 1 (SOCS1) and SOCS3 in hepatocellular carcinoma

Md Gulam Musawwir Khan[1], Mehdi Yeganeh[1], Rajani Kandhi[1], Diwakar Bobbala[1], Akihiko Yoshimura[2], Gerardo Ferbeyre[3], Sheela Ramanathan[1], Subburaj Ilangumaran[1]

[1]Immunology Division, Department of Pediatrics, Faculty of Medicine and Health Sciences, University of Sherbrooke, Sherbrooke, Canada,
[2]Department of Microbiology and Immunology, Keio University School of Medicine, Tokyo, Japan,
[3]Department of Biochemistry, Faculty of Medicine, University of Montreal, Montreal, Canada

14：40～

Tu-WS7-6

IL-1b induced cell death under glucose deprivation is dependent on SIRT6-Hexokinase 2 cross talk

Ellora SEN, Touseef Sheikh, Piyushi Gupta, Pruthvi Gowda

National Brain Research Centre, Manesar, India

14：50～

Tu-WS7-7

T-bet suppresses the IFN-gamma mediated induction of a T cell intrinsic type I IFN signature during T helper 1 responses

Yohei Mikami[1], Fred Davis[1], Shigeru Iwata[1], Hong-Wei Sun[1], Brooks R Stephen[1], Shih Han-Yu[1], Takeshi Kawabe[2], Kan Jiang[1], Dragana Jankovic[2], Alan Sher[2], Yuka Kanno[1], John J O'Shea[1]

[1]Lymphocyte Cell Biology Section, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, United States, [2]Immunobiology Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, United States

15：00～

Tu-WS7-8

Involvement of the MAP kinase pathway in PKR inhibition by Theiler's virus

Yohei Hayashi, Thomas Michiels

de Duve Institute, University of Louvain, Brussels, Belgium, Brussels, Belgium

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13：40～15：10

Session：Workshop 9, “Anti-cytokine therapy for inflammatory human diseases”

Room: ANA Crowne Plaza “Ohtori” Room B

Chair/s: John A. Hamilton, Yoshiya Tanaka

13：40～

Tu-WS9-1

Overview of anti-cytokine therapy and differential use of biologics based on lymphocyte phenotype in inflammatory autoimmune diseases

Yoshiya Tanaka

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

13：55～

Tu-WS9-2

TNFR2^{+} regulatory T cells (Tregs) subpopulations are highly suppressive and are increased on anti-TNF treatment in Rheaumtoid Arthritis (RA) patients.

François Santinon[1], Maxime Batignes[1], Benoit Salomon[2], Jorg Tost[4], Florence Busato[4], Patrice Decker[1], Marie-Christophe Boissier[1, 3], Luca Semerano[1, 3], Natacha Bessis[1]

[1]INSERM UMR 1125, Sorbonne Paris Cité, University Paris 13, 75011 Paris, France, [2]Sorbonne Universities, UPMC University Paris 06, INSERM, CNRS, Centre d'Immunologie et des Maladies Infectieuses (CIMI-Paris), Paris, France, [3]Assistance Publique-Hôpitaux de Paris (AP-HP), Avicenne Hospital, Rheumatology Dept, Bobigny, France, [4]Laboratory for Epigenetics and Environment, Centre National de Génotypage, CEA-Institut de Génomique,, Evry, France

14：10～

Tu-WS9-3

TRAIL suppresses joint inflammation and osteoclastogenesis through inhibiting activated T cell responses in inflammatory arthritis

I-Tsu Chyuan[1, 2], Hwei-Fang Tsai[3, 4], Ping-Ning Hsu[5, 6]

[1]Department of Internal Medicine, Gathay General Hospital, Taipei, Taiwan, [2]Graduate Institute of Clinical Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, [3]Department of Internal Medicine, Taipei Medical University Shuang Ho Hospita, Taipei, Taiwan, [4]Graduate Institute of Clinical Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan, [5]Department of Internal Medicine, National Taiwan University Hospital, Taipei, Taiwan, [6]Graduate Institute of Immunology, College of Medicine, National Taiwan University, Taipei, Taiwan

14：25～

Tu-WS9-4

Distinct single cell gene expression signatures of monocyte subsets differentiate between TNF-alpha inhibitor treatment response groups in Rheumatoid Arthritis

Theresa L. Wampler Muskardin[1], Wei Fan[5], Zhongbo Jin[4], Mark A. Jensen[2], Jessica M. Dorschner[3], Yogita Ghodke-Puranik[3], Danielle Vsetecka[3], Timothy B. Niewold[2]

[1]NYU Langone Medical Center, Department of Medicine, Division of Rheumatology, New York, United States, [2]NYU Langone Medical Center, Department of Medicine, Colton Center for Autoimmunity, New York, United States, [3]Mayo Clinic, Department of Medicine, Division of Rheumatology, Rochester, United States, [4]University of Florida School of Medicine, Department of Pathology, Immunology, and Laboratory Medicine, Gainesville, United States, [5]Shanghai Jiao Tong University, School of Medicine, Ren Ji Hospital, Department of Rheumatology, Shanghai, China

14：40～

Tu-WS9-5

Anti-CX3CL1 monoclonal antibody therapy suppresses the development of bleomycin-induced and growth factors-induced skin fibrosis in mice

Vu Huy Luong[1], Takenao Chino[1], Noritaka Oyama[1], Takashi Obara[2], Yoshikazu Kuboi[3], Naoto Ishii[3], Akihito Machinaga[3], Hideaki Ogasawara[3], Wataru Ikeda[3], Toshio Imai[3], Minoru Hasegawa[1]

[1]Department of Dermatology, Fukui University, Fukui, Japan, [2]Eisai Co..Ltd., Tokyo, Japan, [3]KAN Research Institute. Inc., Hyogo, Japan

14：55～

Tu-WS9-6

A new GM-CSF-dependent pathway in inflammation

John A. Hamilton

University of Melbourne, Department of Medicine at Royal Melbourne Hospital, Parkville, Australia

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13：40～15：10

Session：Workshop 11, “Emerging cytokines”

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Cem Gabay, Hiroki Yoshida

13：40～

Tu-WS11-1

The IL-1 family: new and old cytokines

Cem Gabay

Division of Rheumatology, University of Geneva, Geneva, Switzerland

14：05～

Tu-WS11-2

Interleukin 27 controls pain sensitivity in pathophysiological conditions; to immunity and beyond!

Hiroki Yoshida[1], Tomoko Sasaguri[2], Asako Ishikawa[2], Yuzo Murata[3], Toshiharu Yasaka[4], Naomi Hirakawa[2], Hiromitsu Hara[4]

[1]Dept. Biomol. Sciences, Faculty of Medicine, Saga University, Saga, Japan, [2]Dept. Anesthesiol. Critical Care Med., Faculty of Medicine, Saga University, Saga, Japan, [3]Dept. Anatomy Physiol., Faculty of Medicine, Saga University, Saga, Japan, [4]Dept. Immunol., Kagoshima University Grad. Sch. Med. Dent. Sciences, Kagoshima, Japan

14：30～

Tu-WS11-3

Th22 cells as a new helper T cell subset involved in RA pathogenesis through their ability to promote osteoclast differentiation via IL-22 production

Yusuke Miyazaki[1], Shingo Nakayamada[1], Satoshi Kubo[1], Kazuhisa Nakano[1], Kei Sakata[1, 2], Shigeru Iwata[1], Ippei Miyagawa[1], Yoshiya Tanaka[1]

[1]The First Department of Internal Medicine, School of Medicine, University of Occupational & Environmental Health, Japan, Kitakyusyu, Japan, [2]Mitsubishi Tanabe Pharma, Yokohama, Japan

14：40～

Tu-WS11-4

Interleukin-27 inhibits the generation of memory CD4+ T cells during malaria infection.

Daisuke Kimura[1], Sayuri Nakamae[1], Odsuren Sukhbaatar[1], Mana Miyakoda[1], Masoud Akbari[1], Kazumi Kimura[1], Hiromitsu Hara[2], Hiroki Yoshida[3], Katsuyuki Yui[1]

[1]Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan, [2]Department of Immunology, Graduate School of Medical and Dental Sciences, Kagoshima University, Kagoshima, Japan, [3]Department of Biomolecular Sciences, Faculty of Medicine, Saga University, Saga, Japan

14：50～

Tu-WS11-5

Structure of an engineered IFN-λ/IFN-λR1/IL-10Rβ complex provides insight into the functional dichotomy of type III versus type I IFNs

Juan Luis Mendoza[1], William M Schneider[2], Hans-Heinrich Hoffman[2], Koen Vercauteren[2], Kevin M Jude[1], Anming Xiong[3], Ignacio Moraga[1], Tim M Horton[1], Jeffrey S Glenn[3], Ype P de Jong[2, 4], K Christopher Garcia[1]

[1]Howard Hughes Medical Institute, Department of Molecular and Cellular Physiology and Department of Structural Biology, Stanford University School of Medicine, Stanford, CA 94305, USA, Stanford, United States, [2]Laboratory of Virology and Infectious Disease, The Rockefeller University, New York, NY 10065, USA, New York, United States, [3]Department of Medicine, Division of Gastroenterology and Hepatology, Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, CA 94305, USA Stanford University School of Medicine, Stanford, CA 94305, USA, Stanford, United States, [4]Center for the Study of Hepatitis C, Division of Gastroenterology and Hepatology, Weill Cornell Medicine, New York, NY 10065, USA, New York, United States

15：00～

Tu-WS11-6

IL-33 potentiates the inflammatory response to Toxoplasma gondii

Joseph Thomas Clark, Jeongho Park, Christoph Konradt, Maxime Jacquet, Christopher Hunter

Department of Pathobiology, University of Pennsylvania School of Veterinary Medicine, Philadelphia, United States

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15：20～16：50

Session：Workshop 8, “Cytokines and inflammatory factors in host defense”

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Christopher Hunter, Reiko Shinkura

15：20～

Tu-WS8-1

High-affinity monoclonal IgA derived from mouse Intestine as a modulator of the gut microbiota

Reiko Shinkura

Nara Institute of Science and Technology, Nara, Japan

15：40～

Tu-WS8-2

Antibiotics disrupt intestinal macrophage homeostasis to induce long-lived inflammatory T-cell responses and defective protection against bacterial and parasitic infections.

Elizabeth Rebecca Mann[1, 2], Peter Andersen[3], Cristina Alcon-Giner[4], Charlotte Leclaire[4], Shabhonam Caim[4], Hannah Wessel[1], Allison Bancroft[2], Alberto Bravo-Blas[1], Verena Kästele[1], Daniel Peterson[3, 5], Richard Grencis[2], Xuhang Li[3], Allan Mowat[1], Lindsay Hall[4], Mark Travis[2], Simon Milling[1]

[1]University of Glasgow, Glasgow, United Kingdom, [2]University of Manchester, Manchester, United Kingdom, [3]Johns Hopkins Medicine, Baltimore, United States, [4]Quadrate Institute Bioscience, Norwich, United Kingdom, [5]Eli Lilly Research Laboratories, Indianapolis, United States

15：50～

Tu-WS8-3

Osteoblasts mediate immunosuppression during sepsis by regulating lymphopoiesis

Asuka Terashima[1], Kazuo Okamoto[1], Tomoki Nakashima[2], Koichi Ikuta[3], Hiroshi Takayanagi[4]

[1]Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine The University of Tokyo, Tokyo, Japan, [2]Department of Cell Signaling, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan, [3]Laboratory of Biological Protection, Department of Biological Responses, Institute for Virus Research, Kyoto University, Kyoto, Japan, [4]Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan

16：00～

Tu-WS8-4

IL-17A controls autoimmune disease by inhibiting the expression of IL-17 lineage cytokines through a negative feedback loop involving IL-24

Wai Po Chong[1, 2], Kumarkrishna Raychaudhuri[2], Reiko Horai[2], Mary J Mattapallil[2], Phyllis B Silver[2], Yingyos Jittayasothorn[2], Chi-Chao Chan[2], Jun Chen[1], Rachel Caspi[2]

[1]State Key Lab. Ophthalmol., Zhongshan Ophthalmic Center, Sun Yat-sen University, Guangzhou, China, [2]Lab of Immunology, National Eye Institute, National Institutes of Health, Bethesda, United States

16：10～

Tu-WS8-5

Non-linear scaling of $CD8^+$ T cell responses by bystander DCs

Jun Abe[1], Philipp Germann[2, 3], Jorge Ripoll[4, 5], James Sharpe[2, 3, 6], Jens V Stein[1]

[1]Theodor Kocher Institute, University of Bern, Bern, Switzerland, [2]EMBL/CRG Systems Biology Research Unit, Centre for Genomic Regulation (CRG), The Barcelona Institute of Science and Technology, Barcelona, Spain, [3]Universitat Pompeu Fabra (UPF), Barcelona, Spain, [4]Department of Bioengineering and Aerospace Engineering, Universidad Carlos III of Madrid, Madrid, Spain, [5]Experimental Medicine and Surgery Unit, Instituto de Investigación Sanitaria del Hospital Gregorio Marañón, Madrid, Spain, [6]Institució Catalana de Recerca i Estudis Avançats (ICREA), Barcelona, Spain

16：20～

Tu-WS8-6

A Novel Role for Epstein-Barr Virus-Induced Gene 3 as An Intracellular Molecule That Enhances IL-23 Receptor Expression by Binding to Calnexin and IL-23 Receptor

Izuru Mizoguchi, Yukino Chiba, Hideaki Hasegawa, Mio Ohashi, Mingli Xu, Toshiyuki Owaki, Takayuki Yoshimoto

Department of Immunoregulation, Institute of Medical Science, Tokyo Medical University, Tokyo, Japan

16：30～

Tu-WS8-7

The role of BATF-3 dependent DC in the formation of fat associated lympoid clusters

Christopher Hunter, David Christian

University of Pennsylvania, Philadelphia, United States

15：20～16：50

Session：Workshop 10, "Cytokines in autoimmune diseases"

Room: ANA Crowne Plaza "Ohtori" Room B

Chair/s: Ann Chen, Masaaki Murakami

15：20～

Tu-WS10-1

Overview of WS10

Masaaki Murakami

Division of Psychoimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan

15：26～

Tu-WS10-2

Selective blockade of NLRP3 inflammasome by TCM in lupus nephritis

Ann Chen[1], Shuk-Man Ka[2], Feng-Cheng Liu[3], Kuo-Feng Hua[4], Shozo Izui[5]

[1]Department of Pathology, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan, [2]Graduate Institute of Aerospace and Undersea Medicine, Academy of Medicine, National Defense Medical Center, Taipei, Taiwan, [3]Department of Rheumatology/Immunology and Allergy, Department of Medicine, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan, [4]Department of Biotechnology and Animal Science, National Ilan University, Ilan, Taiwan, [5]Department of Pathology and Immunology, Faculty of Medicine, University of Geneva, Geneva, Switzerland

15：36～

Tu-WS10-3

NLRP3 and AIM2 inflammasome function in autoimmune NZB/W F1 mouse macrophages

Sara Judith Thygesen, David P Sester, Katryn J Stacey

School of Chemistry and Molecular Biosciences, The University of Queensland, Brisbane, Australia

15：44～

Tu-WS10-4

Interleukin-20 induces podocyte apoptosis and is upregulated in early diabetic nephropathy

Yu-Hsiang Hsu[1, 2, 4], Ming-Shi Chang[3, 4]

[1]Institute of Clinical Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan, [2]Research Center of Clinical Medicine, National Cheng Kung University Hospital, College of Medicine, National Cheng Kung University, Tainan, Taiwan, [3]Department of Biochemistry and Molecular Biology, College of Medicine, National Cheng Kung University, Tainan, Taiwan, [4]Research Center of New Antibody Drug, National Cheng Kung University, Tainan, Taiwan

15：52～

Tu-WS10-5

Aicardi-Goutières syndrome-like inflammation in mutant mice with constitutively activated MDA5

Hideo Onizawa[1, 2], Hiroki Kato[1], Shota Shimizu[1], Nobumasa Soda[1], SuMin Lee[1], Francine Lianne Emralino[1], Ahmed Abu Tayeh[1], Taisuke Ohto[1], Masahide Funabiki[1], Takashi Fujita[1]

[1]Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [2]Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan

16：00～

Tu-WS10-6

Regulation of glial cells by Tregs in the chronic phase after stroke

Minako Ito, Akihiko Yoshimura

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

16：08～

Tu-WS10-7

Type I interferon receptor triggering of astrocytes and neurons orchestrates neuro-glial crosstalk that activates microglia and regulates accumulation of myeloid cells during viral encephalitis

Chintan Chhatbar[1], Claudia N. Detje[1], Elena Grabski[1], Katharina Borst[1], Julia Spanier[1], Luca Ghita[1], David A. Elliott[2], Marta Joana Costa Jordao[3, 4], Nora Mueller[5], Chittappen K. Prajeeth[6], Viktoria Gudi[6], Michael A. Klein[5], Marco Prinz[3, 7], Frank Bradke[2], Martin Stangel[6, 8], Ulrich Kalinke[1]

[1]Institute for Experimental Infection Research, TWINCORE, Centre for Experimental and Clinical Infection Research, a joint venture between the Helmholtz Centre for Infection Research and the Hannover Medical School (E.Grabski: current PEI Langen), Hannover, Germany, [2]Axonal Growth and Regeneration Group, German Center for Neurodegenerative Disease Research (DZNE), Bonn, Germany, [3]Institute of Neuropathology, Freiburg University Medical Centre, Freiburg, Germany, [4]Faculty of Biology, University of Freiburg, Freiburg, Germany, [5]Institute for Virology and Immunobiology, University of Wuerzburg, Wuerzburg, Germany, [6]Clinical Neuroimmunology and Neurochemistry, Department of Neurology, Hannover Medical School, Hannover, Germany, [7]BIOSS Centre for Biological Signaling Studies, University of Freiburg, Freiburg, Germany, [8]Center for Systems Neuroscience, Hannover, Germany

16：16～

Tu-WS10-8

The microbiome controls the development of CNS autoimmunity by regulating T cell activation and migration.

Sarah C Edwards, Kingston HG Mills

Immune regulation research group, Trinity Biomedical Sciences Institute, Trinity College Dublin, Dublin, Ireland

16：24～

Tu-WS10-9

Photopic light intensity inhibits retinal inflammation via down-regulating local adrenergic system

Daisuke Kamimura[1], Andrea Stofkova[1, 2], Takuto Ohki[1], Yasunobu Arima[1], Masaaki Murakami[1]

[1]Molecular Neuroimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [2]Normal, Pathological and Clinical Physiology, Third Faculty of Medicine, Charles University, Prague, Czech Republic

16：34～

Tu-WS10-10

Symmetrical inflammation is developed by the sensory neurons between joints in a rheumatoid arthritis model

Takuto Ohki[1], Daisuke Kamimura[1, 2], Masaya Harada[2], Fuminori Kawano[3], Ikuma Nakagawa[1], Tadafumi Kawamoto[4], Yoshinobu Ohira[3], Yasunobu Arima[1, 2], Masaaki Murakami[1, 2]

[1]Molecular Neuroimmunology, Institute for Genetic Medicine, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [2]Developmental Immunology, Graduate School of Frontier Biosciences, Graduate School of Medicine, and WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan, [3]Health and Sports Sciences, Graduate School of Medicine, and Graduate School of Frontier Biosciences, Osaka University, Osaka, Japan, [4]Radioisotope Research Institute, Department of Dental Medicine, Tsurumi University, Yokohama, Japan

16：42～

Tu-WS10-11

Brain micro-inflammation at specific vessels establishes a new neural circuit, which dysregulates the gastrointestinal homeostasis under stress conditions

Yasunobu Arima[1], Takuto Ohki[1], Naoki Nishikawa[1], Kotaro Higuchi[1], Junko Nio-Kobayashi[2], Stofkova Andrea[1], Toshihiko Iwanaga[2], Marco Prinz[3], Daisuke Kamimura[1], Masaaki Murakami[1]

[1]Division of Molecular Neuroimmunology, Institute for Genetic Medicine and Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [2]Department of Anatomy, Graduate School of Medicine, Hokkaido University, Sapporo, Japan, [3]Institute of Neuropathology, Faculty of Medicine, University of Freiburg, and BIOSS Centre for Biological Signalling Studies, University of Freiburg, Freiburg, Germany

15：20～16：50

Session： Workshop 12, “Helper T cell differentiation”

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Masato Kubo, Motoko Y. Kimura

15：20～

Tu-WS12-1

Role of T follicular helper (T_{FH}) and T_H1 in flu specific humoral immunity

Masato Kubo

Research Institute for Biomedical Science, Tokyo University of Science, Noda, Japan, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Japan

15：41～

Tu-WS12-2

Hypoleptinemia impairs T_{FH} cell function and confers the risk of poor vaccine responses

Jun Deng[1, 2, 3], Liwei Lu[2], Di Yu[1, 3]

[1]China-Australia Centre for Personalised Immunology, Renji Hospital Affiliated to Shanghai Jiaotong Univesity Medical School, Shanghai, China, [2]Department of Pathology and Center of Infection and Immunology, The University of Hong Kong, Hong Kong, China, [3]Department of Immunology and Infectious Disease, John Curtin School of Medical Research, The Australian National University, Canberra, Australia

15：54～

Tu-WS12-3

E-box binding protein HEB fine-tunes the localization of pre-T_{FH} cells in the secondary lymphoid organs to promote subsequent maturation into germinal center T_{FH} cells

Hidehiro Yamane[1], Anastassia A. Tselikova[1], Sundar Ganesan[2], Juraj Kabat[2], Ke Weng[1], Pamela L. Schwartzberg[3], William E. Paul[1]

[1]Cytokine Biology Unit, Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, United States, [2]Biological Imaging Section, Research Technology Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, United States, [3]Cell Signaling and Immunity Section, Genetic Disease Research Branch, National Human Genome Research Institute, National Institutes of Health, Bethesda, United States

16：07～

Tu-WS12-4

Mechanisms underlying differentiation and function of adipose tissue resident regulatory T cells

AJITHKUMAR VASANTHAKUMAR, RENEE GLOURY, YANG LIAO, WEI SHI, AXEL KALLIES

Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia

16：20～

Tu-WS12-5

T-bet$^+$ memory-phenotype CD4$^+$ T cells are spontaneously generated via tonic IL-12 in steady state and exert cytokine-dependent, innate-like effector function

Takeshi Kawabe[1, 2], Dragana Jankovic[2], Shuko Kawabe[1], Yuefeng Huang[1], Ping-Hsien Lee[1], Hidehiro Yamane[1], Jinfang Zhu[3], Alan Sher[2], Ronald N. Germain[1, 4], William E. Paul[1]

[1]Cytokine Biology Unit, Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [2]Immunobiology Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [3]Molecular and Cellular Immunoregulation Unit, Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, [4]Lymphocyte Biology Section, Laboratory of Systems Biology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

16：33～

Tu-WS12-6

Myosin light chain 9 and 12 are functional ligands for CD69 that regulate airway inflammation

Motoko Y. Kimura, Koji Hayashizaki, Toshinori Nakayama

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

17：00～19：00

Session：Evening Symposium “Chemokines ---- Cell trafficking and beyond”

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Naofumi Mukaida, Dhan V. Kalvakolanu

17：00～

Tu-ES4-1

Pathological contribution of an inflammatory chemokine CCL3 in chronic myeloid leukemia as a stem cell inhibitor

Tomohisa Baba, Naofumi Mukaida

Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

17：20～

Tu-ES4-2

Chemokine and oxysterol regulation of immune cell migration and metabolism

Jason G. Cyster, Eric Dang

UCSF, Department of Microbiology & Immunology and Howard Hughes Medical Institute, San Francisco, United States

17：50～

Tu-ES4-3

Mechanism of skin immune responses to external stimuli: Proposal of inducible skin-associated lymphoid tissue (iSALT)

Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

18：10～

Tu-ES4-4

Chemokine-dependent and -independent mechanisms of T cell immune surveillance

Jens V. Stein

Theodor Kocher Institute, University of Bern, Bern, Switzerland

18：40～

Tu-ES4-5

Specific features of Tregs migrated from skin and colon to the draining lymph node in the steady state and under inflammation

Michio Tomura

Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, Tondabayashi-city, Japan

17：00～19：00

Session：Sponsored Evening Symposium 2, A Paradigm Shift in Rheumatoid Arthritis -The Importance of Cytokine Blocking Treatment, Sponsored by Chugai Pharmaceutical Co., Ltd.

Room: ANA Crowne Plaza "Ohtori" Room B

Chair/s: Tsutomu Takeuchi

17：00～

Tu-ES5-1

Pro-inflammatory cytokine therapy in rheumatoid arthritis and other inflammatory/autoimmune diseases.

John A. Hamilton

University of Melbourne, Department of Medicine at Royal Melbourne Hospital, Parkville, Australia

17：40～

Tu-ES5-2

In vivo pharmacological action of biologic agents visualized by intravital bone imaging

Masaru Ishii

Osaka University Graduate School of Medicine, Osaka, Japan

18：20～

Tu-ES5-3

The significance of RA treatment by IL-6 signaling inhibition learned from the translational research

Tsutomu Takeuchi

Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine., Tokyo, Japan

17：00～19：00

Session：Milstein Young Investigator Awards; Christina Fleischmann Award & Sidney & Joan Pestka Graduate & Post Graduate Awards

Room: ANA Crowne Plaza "Ohtori" Room C

Chair/s: Bryan Williams, Keiko Ozato

17：00～

Tu-ES6-1

Introduction & Presentation of the Milstein Young Investigator Awards

Bryan Williams

Hudson Institute of Medical Research, Clayton, Australia

17：07～

Tu-ES6-2

Nitro-fatty acids are formed in response to infection with virus and covalently modify the adaptor molecule STING to reduce production of type I IFN.

A L Hansen[1], S D Anderson[1], M B Iversen[1], A Thielke[2], G Buchan[2], F J Schopfe[2], David Olagnier[1], Christian Kanstrup Holm[1]

[1]Aarhus University Department of Biomedicine, Aarhus C, Denmark, [2]University of Pittsburgh, Pittsburgh, United States

17：24～

Tu-ES6-3

Selective suppression of IRF5 activity by Lyn in the TLR-MyD88 pathway restrains the development of SLE-like disease

Tatsuma Ban[1], Go Sato[1], Akira Nishiyama[1], Satoko Matsunaga[1], Ayuko Kimura[2], Yayoi Kimura[2], Hideyuki Yanai[3], Yoshiko Matsumoto[4], Hiroe Hihara[4], Tadashi Yamamoto[5], Hisashi Hirano[2], Akihide Ryo[1], Kappei Tsukahara[4], Kentaro Yoshimatsu[4], Tadatsugu Taniguchi[3], Tomohiko Tamura[1, 2]

[1]Yokohama City University Graduate School of Medicine, Yokohama, Japan, [2]Advanced Medical Research Center, Yokohama City University, Yokohama, Japan, [3]Institute of Industrial Science, The University of Tokyo, Tokyo, Japan, [4]Eisai Co., Ltd., Tsukuba, Japan, [5]Okinawa Institute of Science and Technology Graduate School, Okinawa, Japan

17：41～

Tu-ES6-4

Memory-type ST2$^+$CD4$^+$ T cells participate in the steroid-resistant pathology of eosinophilic pneumonia

Kiyoshi Hirahara[1], Naoko Mato[1, 2], Tomomi Ichikawa[1], Jin Kumagai[1], Masayuki Nakayama[2], Hideaki Yamasawa[2], Masashi Bando[2], Koichi Hagiwara[2], Yukihiko Sugiyama[2, 3], Toshinori Nakayama[1]

[1]Department of Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan, [2]Division of Pulmonary Medicine, Department of Internal Medicine, Jichi Medical University, Tochigi, Japan, [3]Department of Respiratory Medicine, Nerima-Hikarigaoka Hospital, Tokyo, Japan

17：58～

Tu-ES6-5

Introduction and Presentation of the Christina Fleischmann Award to Young Women Investigators

Bryan Williams

Hudson Institute of Medical Research, Clayton, Australia

18：03～

Tu-ES6-6

A long noncoding RNA regulates the switch between macrophage differentiation and inflammation

Susan Carpenter[1], Sergio Covarrubias[1], Sol Katzman[1], Ran Song[2], Edward Wakeland[2]

[1]Department of Molecular, Cell and Developmental Biology, University of California Santa Cruz., Santa Cruz, United States, [2]Department of Immunology, UT Southwestern Medical School,, Dallas, United States

18：20～

Tu-ES6-7

Introduction and Presentation of the Sidney & Joan Pestka Graduate & Post Graduate Awards

Robert Pestka

PBL Assay Science, Piscataway, United States

18：26～

Tu-ES6-8

T cells Protect the Brain after Nasal Virus Infection by Engaging Local Myeloid Cells that Cross-Present Antigen

E. Ashley Moseman, Alexa F Ciesinski, Dorian B McGavern

Viral Immunology & Intravital Imaging Section, National Institute of Neurological Disorders and Stroke, National Institutes of Health, Bethesda, United States

18：43～

Tu-ES6-9

Type-I interferon mediated degradation of microRNAs is sequence and length dependent

Charlotte Nejad[1, 2], Michael Paul Gantier[1, 2]

[1]Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Clayton, Australia, [2]Department of Molecular and Translational Science, Monash University, Clayton, Australia

19：10～21：00 **Poster Session - P2, P4, P6, P8, P10, P12, P14**
Ishikawa Ongakudō Interchange Hall

Program

Wednesday, 1 November 2017

08：30〜09：20 **Session：Keynote Lecture 6**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Kenya Honda

08：30〜 We-K6-1

Microbiota Control of Gut Immune Homeostasis

Dan Littman

Skirball Institute New York University School of Medicine Howard Hughes Medical Institute, New York, United States

09：30〜12：10 **Session：Symposium 3, "Environment, chronic inflammation and cytokines"**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Akiko Iwasaki, Hiroshi Kiyono

09：30〜 We-S3-1

Modulation of the immune system by the gut microbiota

Kenya Honda[1, 2], Takeshi Tanoue[1, 2], Koji Atarashi[1, 2], Seiko Narushima[2]

[1]Keio University School of Medicine, Tokyo, Japan, [2]RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

09：55〜 We-S3-2

Type I interferons in pregnancy

Akiko Iwasaki

Yale University School of Medicine and Howard Hughes Medical Institute, New Haven, CT, United States

10：20〜 We-S3-3

Mucosal Multi-ecosystem of Epithelial Cells, Innate Lymphoid Cells and Commensal Microbiota for the Control of Symbiosis and Diseases

Hiroshi Kiyono

Division of Mucosal Immunology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, International Research and Development Center for Mucosal Vaccines, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, Department of Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan

10：45〜10：55 **Break**

10：55〜 We-S3-4

Sensing and reacting to pathogens via cytokine signaling at the skin barrier

Gabriel Nunez

University of Michigan, Ann Arbor, United States

11：20～

We-S3-5

Gut reactions: Immune pathways in the intestine in health and disease

Fiona Powrie

Kennedy Institute of Rheumatology, University of Oxford, Oxford, United Kingdom

11：45～

We-S3-6

Regulation of intestinal inflammation by epithelial barriers

Kiyoshi Takeda

Department of Microbiology and Immunology, Graduate School of Medicine, Osaka University, Osaka, Japan, Immunology Frontier Research Center, Osaka University, Osaka, Japan

12：40～13：30

Session：Lunch-time Lecture 7, Sponsored by: Meso Scale Japan K.K.

Room: ANA Crowne Plaza “Ohtori” Room A

Chair/s: Yutaka Kawakami

12：40～

We-L7-1

Strategic development of combination cancer immunotherapy

Kouji Matsushima

Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

12：40～13：30

Session：Lunch-time Lecture 8, Sponsored by: Alcon Pharma K.K.

Room: ANA Crowne Plaza “Ohtori” Room B

Chair/s: Akihiko Yoshimura

12：40～

We-L8-2

The role of cytokine in the pathogenesis of age-related macular degenerationThe role of cytokine in the pathogenesis of age-related macular degeneration

Koh-Hei Sonoda

Department of Ophthalmology, Graduate School of Medical Science, Kyushu University, Fukuoka, Japan

13：05～

We-L8-1

Involvement of semaphorins in pathogenesis of autoimmune and inammatory diseases.

Atsushi Kumanogoh

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

12：40～13：30

Session：ICIS-BioLegend William E. Paul Award Lecture

Room: ANA Crowne Plaza “Ohtori” Room C

Chair/s: Michelle Tate, Weiping Jiang

12：40～ Short Talk

Shaoquan Ji

12：50～ We-L9-1

Learning cytokine function from the host-pathogen encounter

Alan Sher

NIH / NIAID, Bethesda, United States

13：40～15：10 **Session：Workshop 13, "Development and function of Macrophage and DC"**

Room: ANA Crowne Plaza "Ohtori" Room A

Chair/s: Frederic Geissmann, Toshiaki Ohteki

13：40～ We-WS13-1

Identification of human common monocyte progenitors

Toshiaki Ohteki

Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University, Bunkyo-ku, Japan

13：58～ We-WS13-2

Repression of SMAD3 by STAT3 and c-SKI is essential for conventional dendritic cell differentiation

Jeong-Hwan Yoon[1, 2], Eunjin Bae[1, 2], Katsuko Sudo[3], Seok Hee Park[4], Michael Weinstein[5], Sungmi Park[6], Jae-Han Jeon[1, 6], Susumu Nakae[7], In-Kyu Lee[1, 6], Ji Hyeon Ju[8], Isao Matsumoto[9], Takayuki Sumida[9], Masahiko Kuroda[2], Keiji Miyazawa[10], Mitsuyasu Kato[11], Mizuko Mamura[1, 2, 12]

[1]Biomedical Research Institute, Department of Internal Medicine, Kyungpook National University Hospital, Daegu, Korea, Republic of (South), [2]Department of Molecular Pathology, Tokyo Medical University, Tokyo, Japan, [3]Animal Research Center, Tokyo Medical University, Tokyo, Japan, [4]Department of Biological Sciences, Sungkyunkwan University, Suwon, Korea, Republic of (South), [5]Department of Molecular Genetics, The Ohio University, Columbus, OH, Columbus, United States, [6]Leading-edge Research Center for Drug Discovery and Development for Diabetes and Metabolic Disease, Kyungpook National University Medical Center, Daegu, Korea, Republic of (South), [7]Laboratory of Systems Biology, Center for Experimental Medicine and Systems Biology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, [8]Department of Rheumatology, Catholic University of Korea, Seoul St. Mary Hospital, Seoul, Korea, Republic of (South), [9]Department of Internal Medicine, University of Tsukuba, Tsukuba, Japan, [10]Departments of Biochemistry, University of Yamanashi, Yamanashi, Japan, [11]Department of Experimental Pathology, Graduate School of Comprehensive Human Sciences and Faculty of Medicine, University of Tsukuba, Tsukuba, Japan, [12]Physician, Student and Researcher Support Center, Tokyo Medical University, Tokyo, Japan

14：10～ We-WS13-3

Mapping the human DC lineage through the integration of high-dimensional techniques

Peter See[1], Charles-Antoine Dutertre[1, 2], Jinmiao Chen[1], Patrick Günther[3], Naomi McGovern[1], Sergio Erdal Irac[2], Merry Gunawan[4], Marc Beyer[5], Kristian Händler[3], Kaibo Duan[1], Joachim L. Schultze[3, 5], Evan W. Newell[1], Florent Ginhoux[1]

[1]Singapore Immunology Network (SIgN), Singapore, Singapore, [2]Program in Emerging Infectious Disease, Duke-NUS Medical School, Singapore, Singapore, [3]Genomics and Immunoregulation, Life and Medical Sciences (LIMES) Institute, University of Bonn, Bonn, Germany, [4]Institute of Cellular Medicine, Newcastle University,, Newcastle, United Kingdom, [5]Platform for Single Cell Genomics and Epigenomics at the German Center for Neurodegenerative Diseases and the University of Bonn, Bonn, Germany

14：22～

We-WS13-4

SIRPα$^+$ dendritic cells regulate homeostasis of fibroblastic reticular cells via TNF receptor ligands in the adult spleen

Yasuyuki Saito[1], Satomi Komori[1], Datu Respatika[1], Ken Washio[1], Takenori Kotani[1], Yoji Murata[1], Hiroshi Ohnishi[2], Katsuyuki Yui[3], Koji Yasutomo[4], Takashi Matozaki[1]

[1]Division of Molecular and Cellular Signaling, Department of Biochemistry and Molecular Biology, Kobe University Graduate School of Medicine, Kobe, Japan, [2]Department of Laboratory Sciences, Gunma University Graduate School of Health Sciences, Maebashi, Japan, [3]Division of Immunology, Department of Molecular Microbiology and Immunology, Graduate School of Biomedical Sciences, Nagasaki University,, Nagasaki, Japan, [4]Department of Immunology and Parasitology, Institute of Health Biosciences, University of Tokushima Graduate School, Tokushima, Japan

14：34～

We-WS13-5

Glibenclamide reduces monocyte functions against *Mycobacterium tuberculosis* infection

Chidchamai Kewcharoenwong[1, 2], Wipawee Saenwongsa[2, 3], Sam Willcocks[4], Gregory Bancroft[4], Helen Fletcher[4], Ganjana Lertmemongkolchai[1, 2]

[1]Mekong Health Science Research Institute, Khon Kaen, Thailand, [2]Faculty of Associated Medical Sciences, Khon Kaen University, Khon Kaen, Thailand, [3]Disease Prevention and Control Region 10th, Ministry of Public Healthy, Ubonratchathani, Thailand, [4]Faculty of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, United Kingdom

14：46～

We-WS13-6

MIP1α deficiency prevents lipotoxicity-induced hepatic insulin resistance and nonalcoholic steatohepatitis

Liang Xu[1], Mayumi Nagashimada[1], Guanliang Chen[1], Naofumi Mukaida[2], Shuichi Kaneko[1], Tsuguhito Ota[1, 3]

[1]Brain/Liver Interface Medicine Research Center, Kanazawa University., Kanazawa, Japan, [2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan, [3]Division of Metabolism and Biosystemic Science, Department of Internal Medicine, Asahikawa Medical University, Asahikawa, Japan

14：58～

We-WS13-7

The innate immune receptor Dectin-2 mediates the phagocytosis of cancer cells by Kupffer cells for the suppression of liver metastasis

Yoshitaka Kimura[1], Asuka Inoue[1], Sho Hangai[1, 2], Shinobu Saijo[3], Hideo Negishi[1], Junko Nishio[1], Sho Yamasaki[4], Yoichiro Iwakura[5], Hideyuki Yanai[1, 2], Tadatsugu Taniguchi[1, 2]

[1]Department of Molecular Immunology, Institute of Industrial Science, The University of Tokyo, Tokyo, Japan, [2]Max Planck-The University of Tokyo Center for Integrative Inflammology, Tokyo, Japan, [3]Department of Molecular Immunology, Medical Mycology Research Center, Chiba University, Chiba, Japan, [4]Division of Molecular Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan, [5]Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

13：40～15：10

Session：Workshop 14, “Cytokines in cancer development and antitumor immune therapy”

Room: ANA Crowne Plaza “Ohtori” Room B

Chair/s: Christopher A. Klebanoff, Tsukasa Seya

13：40～

We-WS14-1

A safe way for insulting antigen with adjuvant without cytokine toxicity in vaccines

Tsukasa Seya

Department of Microbiology and Immunology, Hokkaido University Graduate School of Medicine, Sapporo, Japan

14：00～

We-WS14-2

Role of HMGB1 in inflammation and cancer

Hideyuki Yanai, Tadatsugu Taniguchi

Institute for Industrial Science, The University of Tokyo, Tokyo, Japan

14：10～

We-WS14-3

CD163 is involved in the protumour activation of macrophages in human and murine sarcoma.

Yoshihiro Komohara, Yukio Fujiwara, Hasita Horlad, Yoichi Saito, Koji Ohnishi, Motohiro Takeya

Kumamoto University, Kumamoto, Japan

14：20～

We-WS14-4

Combining depletion of myeloid-derived suppressor cells with dexamethasone ameliorate tumor regression in melanoma-bearing mice

Abderrahim Naji

Center For Innovative and Translational Medicine, Kochi Medical School, Kochi University, Nankoku, Japan

14：30～

We-WS14-5

IL-34 as a prognostic biomarker and a therapeutic target in cancer

Muhammad Baghdadi, Ken-ichiro Seino

Hokkaido University, Institute for Genetic Medicine, Sapporo, Japan

14：40～

We-WS14-6

Involvement of a chemokine, CCL3, in chemotherapeutic-induced tumor eradication by rapid recruitment of CD4-positive cytotoxic T cells into tumor sites

Tomohisa Baba[2], Kazuyoshi Takeda[3], Soichiro Sasaki[2], Yasunari Nakamoto[1], Naofumi Mukaida[2], Tatsushi Naito[1]

[1]Second Department of Internal Medicine, Faculty of Medical Sciences, University of Fukui, Fukui, Japan, [2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan, [3]School of Medicine, Juntendo University, Tokyo, Japan

14：50～

We-WS14-7

Time-scale analysis of interplay between immunogenic tumor and immune response

Marija Mojic[1], Kiyomi Shitaoka[2], Hiroyuki Kishi[2], Atsushi Muraguchi[2], Hideaki Tahara[3], Yoshihiro Hayakawa[1]

[1]Division of Pathogenic Biochemistry, Institute of Natural Medicine, University of Toyama, Toyama, Japan, [2]Department of Immunology, Graduate School of Medicine and Pharmaceutical Sciences (Medicine), University of Toyama, Toyama, Japan, [3]Department of Surgery and Bioengineering, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan

15：00～

We-WS14-8

Notch-mediated conversion of activated T cells into stem cell memory T cells facilitates adoptive cancer immunotherapy

Taisuke Kondo[1], Rimpei Morita[1, 2], Akihiko Yoshimura[1]

[1]Keio University School of Medicine, Tokyo, Japan, [2]IUHW School of Medicine, Chiba, Japan

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13：40～15：10

Session：Workshop 15, "Innate cells including ILC, NK, mast cell and γδT cells"

Room: ANA Crowne Plaza "Ohtori" Room C

Chair/s: Kazuyo Moro, Shinichiro Sawa

13：40～

We-WS15-1

Current topics in the innate immune system

Kazuyo Moro

RIKEN IMS, Yokohama, Japan

13：49～

We-WS15-2

Excessive Reactive Oxygen Species (ROS) blocks IL-17A$^+$γδT cells and subsequent innate immunity required for efficient clearance of *Streptococcus pneumonia (Spn)*.

Desiree A. Anthony[1], Selcuk Yatmaz[1], Catherine Satzke[2], Huei Jiunn Seow[1], Eunice To[1, 3], Hao Want[1], Selemidis Stavros[1, 3], Gary Anderson[4], Steven Bozinovski[1]

[1]RMIT University, Melbourne, Australia, [2]Murdoch Childrens Research Institute, Melbourne, Australia, [3]Monash University, Melbourne, Australia, [4]Melbourne University, Melbourne, Australia

13：58～

We-WS15-3

The role of NK cell-derived interferon-γ in anti-viral immune responses

Katharina Borst[1], Patrick Blank[1], Sven Flindt[2], Martin König[2], Pia-Katharina Tegtmeyer[1], Chintan Chhatbar[1], Jennifer Skerra[1], Zoe Waibler[3], Veronika Sexl[4], Theresa Frenz[1], Ulrich Kalinke[1]

[1]TWINCORE – Centre for Experimental and Clinical Infection Research, Institute for Experimental Infection Research, Hannover, Germany, [2]Paul-Ehrlich-Institut, Division of Immunology, Langen, Germany, [3]Paul-Ehrlich-Institut, Junior Research Group Novel Vaccination Strategies and Early Immune Responses, Langen, Germany, [4]University of Veterinary Medicine, Institute for Pharmacology and Toxicology, Vienna, Austria

14：07～

We-WS15-4

T cell factor-1 is a Critical Factor in Determining Natural Killer and Group 1 Innate Lymphoid Cell Fate Decisions

Lisa A Mielke[1, 2], Qiutong Huang[1, 2], Matthew A Firth[1, 2], Francisca F Almeida[1, 2], Hesham Abdulla[1, 2], Jai Rautela[1, 2], Swee Heng Milon Pang[1, 2], Waruni Abeysekera[1, 3], Hai-Hui Xue[5], Nicholas D Huntington[1, 2], Gordon K Smyth[1, 3], Alexandra L Garnham[1, 3], Matthew P McCormack[1, 4], Eric Vivier[6, 7], Cyril Seillet[1, 2], Gabrielle Belz T Belz[1, 2]

[1]Walter and Eliza Hall Institute of Medical Research, Parkville, Melbourne, Australia, [2]Department of Medical Biology, University of Melbourne, Parkville, Melbourne, Australia, [3]Department of Mathematics and Statistics, University of Melbourne, Parkville, Melbourne, Australia, [4]Australian Centre for Blood Diseases, Monash University, Melbourne, Australia, [5]Department of Microbiology, Carver College of Medicine, University of Iowa, Iowa City, United States, [6]Centre d'Immunologie de Marseille-Luminy, Aix-Marseille University, INSERM, CNRS, Marseille, France, [7]Immunologie, Hôpital de la Timone, Assistance Publique – Hôpitaux de Marseille, Marseille, France

14：16～

We-WS15-5

Terminal differentiation of tissue-resident ILC2 occurs in peripheral tisssue

Satoshi Koga[1], Katsuto Hozumi[2], Shigeo Koyasu[3], Kazuyo Moro[1, 4]

[1]Laboratory for Innate Immune Systems RIKEN Center for Integrative Medical Sciences (IMS), Kanagawa, Japan, [2]Department of Immunology, Tokai University School of Medicine, Kanagawa, Japan, [3]Laboratory for Immune Cell Systems, RIKEN Center for Integrative Medical Sciences (IMS), Kanagawa, Japan, [4]Department of Medical Life science, Yokohama City University, Kanagawa, Japan

14：25～

We-WS15-6

Live Cell Imaging of Secretion (LCI-S) to track the dynamics of cytokine production from individual immune cells

Yoshitaka Shirasaki[1, 2], Kaede Miyata[1], Yumiko Tanaka[1], Mai Yamagishi[1, 2], Nobutake Suzuki[1], Rie Baba[3], Hiroki Kabata[3], Koichi Fukunaga[3], Tomoko Betsuyaku[3], Osamu Ohara[2], Kazuyo Moro[2], Sotaro Uemura[1]

[1]Department of Biological Sciences, Graduate School of Science, The University of Tokyo, Tokyo, Japan, [2]RIKEN Center for Integrative Medical Sciences, Yokohama, Japan, [3]Division of Pulmonary Medicine, Department of Medicine, Keio University, School of Medicine, Tokyo, Japan

14：34～

We-WS15-7

Regulation of lipid metabolite-mediated IL-4 production in group 2 innate lymphoid cells

Yasutaka Motomura[1], Shigeo Koyasu[2], Kazuyo Moro[1, 3]

[1]RIKEN Center for Integrative Medical Sciences, Laboratory for Innate Immune Systems, Yokohama, Japan, [2]RIKEN Center for Integrative Medical Sciences, Laboratory for Immune Cell Systems, Yokohama, Japan, [3]Department of Medical Life Science, Yokohama City University, Yokohama, Japan

14：43～

We-WS15-8

Neuronal regulation of group 2 innate lymphoid cell responses and type 2 inflammation

Saya Moriyama, Jonathan R. Brestoff, Christoph S.N. Klose, Lucille C. Rankin, Naomi A. Yudanin, Gregory Garbès Putzel, David Artis

Jill Roberts Institute for Research in Inflammatory Bowel Disease, Joan and Sanford I. Weill Department of Medicine, Department of Microbiology and Immunology, Weill Cornell Medicine, Cornell University, New York, United States

14：52～

We-WS15-9

LTi cells integrate mesenchymal cell-derived RANKL signals essential for lymph node organogenesis.

Shinichiro SAWA

Division of Immune System Biology, Institute for Genetic Medicine, Hokkaido University, Sapporo, Japan

15：01～

We-WS15-10

Blocking IL23R compared to neutralizing IL23p19 more effectively suppresses lung metastases

Juming Yan[1, 3], Stacey Allen[1], Dipti Vijayan[2, 3], Kazuyoshi Takeda[4], Daniel Cua[5], Mark Smyth[2, 3], Michele Teng[1, 3]

[1]Cancer Immunoregulation and Immunotherapy Laboratory. QIMR Berghofer Medical Research Institute, Brisbane, Australia, [2]Immunology in Cancer and Infection Laboratory, QIMR Berghofer Medical Research Institute, Brisbane, Australia, [3]School of Medicine, University of Queensland, Brisbane, Australia, [4]Division of Cell Biology, Biomedical Research Center, Graduate School of Medicine, Juntendo University, Tokyo, Japan, [5]Merck Research Laboratories, 901 California Avenue, Palo Alto, United States

15：30～17：10 **Session：ICIS Award Lectures, Honorary Life Time Membership Award Lecture, 1st Place Milstein YI Award Presentation, Distinguished Service Award Presentation and ICIS President Lecture**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Bryan Williams, Nancy Reich, Tadatsugu Taniguchi

15：30～ We-Awards-1

Honorary Lifetime Membership Award Lecture - Title TBD

Ganes C. Sen

Cleveland Clinic, Cleveland, United States

16：05～ We-Awards-2

1st Place Milstein YI Award: Defining group 2 innate lymphoid cell tissue niches

Ari B Molofsky

Dept. of Laboratory Medicine, UCSF, San Francisco, United States

16：25～ We-Awards-3

Distinguished Services Award Acceptance

Eleanor N Fish

University Health Network & University of Toronto, Canada, Toronto, Canada

16：35～ We-Awards-4

ICIS President's Lecture: From Type I IFN to HMGB1 and other DAMP molecules: Regulators of immunity, inflammation and cancer

Tadatsugu Taniguchi

Department of Molecular Immunology, Institute of Industrial Science, The University of Tokyo, Max Planck-The University of Tokyo Center for Integrative Inflammology, Tokyo, Japan

17：10～17：45 **ICIS Members Business Meeting** Ishikawa Ongakudō Hogaku Hall

18：00～20：00 **Conference Banquet** ANA Crowne Plaza Kanazawa “ Ohtori”

Program

Thursday, 2 November 2017

08：30～09：20 **Session：Keynote Lecture 7**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Hiroshi Takayanagi

08：30～ Th-K7-1

Can we get closer to a cure for Rheumatoid Arthritis?

Marc Feldmann

Kennedy Institute of Rheumatology, University of Oxford, Oxford, United Kingdom

09：30～12：10 **Session：Symposium 4, "Tumor immunity, macrophages and cytokines"**

Room: Ishikawa Ongakudō Hogaku Hall

Chair/s: Florent Ginhoux, Carl H. June

09：30～ Th-S4-1

'Insulating' adoptively transferred T cells from a hostile tumor environment

Christopher A. Klebanoff

Parker Institute for Cancer Immunotherapy and Center for Cell Engineering, Memorial Sloan Kettering Cancer Center, New York, United States

10：00～ Th-S4-2

Macrophage, Monocyte and Dendritic Cell Biology: From Development to Functions

Florent Ginhoux

*Singapore Immunology Network (SIgN), Agency for Science, Technology and Research (A*STAR),, Singapore, Singapore*

10：30～ Th-S4-3

Updates in CAR T cells

Carl H. June

University of Pennsylvania, Perelman School of Medicine, Philadelphia, United States

11：00～11：10 **Break**

11：10～ Th-S4-4

Multiple mechanisms of immune-resistance in tumor microenvironments and their modulation

Yutaka Kawakami

Division of Cellular Signaling, Institute for Advanced Medical Research, Keio University School of Medicine, TOKYO, Japan

11：40～

Th-S4-5

Escape from tumor immunity by soluble CD155

Kazuko Shibuya

Department of Immunology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan

12：30～12：45 **JSICR General Assembly**

12：45～13：00 **MMBC General Assembly**

Poster sessions

Monday, 30 October 2017

19：10～21：00

Session：Poster Session 1 “Innate immunity and infection”

Room: Ishikawa Ongakudō Interchange Hall

Mo-P1-1

Nrf2 suppresses antiviral innate immunity by impairing STING transcription

David Olagnier, Marie B. Iversen, Anne L. Thielke, Aske M. Bandtoft, Camilla Gunderstofte, Anne-Louise Hansen, Christian K. Holm

Department of Biomedicine, Aarhus Research Center for Innate Immunology, Aarhus University, Aarhus, Denmark

Mo-P1-2

CCR5-binding chemokines contribute to baboon natural resistance to SIV infection

Veronica Obregon-Perko[1, 2], Laura Parodi[2], Vida Hodara[2, 3], Jason T Ladner[4], Michael R Wiley[4], Gustavo F Palacios[4], Luis D Giavedoni[2, 3]

[1]Department of Microbiology, Immunology, and Molecular Genetics, University of Texas Health Science Center, San Antonio, United States, [2]Department of Virology and Immunology, Texas Biomedical Research Institute, San Antonio, United States, [3]Southwest National Primate Research Center, Texas Biomedical Research Institute, San Antonio, United States, [4]Center for Genome Sciences, United States Army Medical Research Institute of Infectious Diseases, Frederick, United States

Mo-P1-3

IFIT family genes play a key role in regulating CVB3 replication and in modulating viral myocarditis

Taishi L Kimura, Claudia T Flynn, J Lindsay Whitton

Department of Immunology and Microbiology, The Scripps Research Institute, La Jolla, United States

Mo-P1-4

Spatiotemporal analysis of the contribution of different recognition platforms to mouse cytomegalovirus-induced type I interferon

Pia-Katharina Tegtmeyer[1], Julia Spanier[1], Katharina Borst[1], Marius Doering[2], Christoph Hirche[3], Stefan Lienenklaus[4], Ilija Brizic[5], Stipan Jonjic[5], Ulrich Kalinke[1]

[1]Institute for Experimental Infection Research, Twincore - Centre of Experimental and Clinical Infection Research, Hannover, Germany, [2]Human Innate Immunity, Unit Immunity and Cancer, Institute Curie, Paris, France, [3]Hematopoietic Stem Cells and Stress, Division of Stem Cells and Cancer, German Cancer Research Center, Heidelberg, Germany, [4]ZTL Imaging-Center, Hannover Medical School, Hannover, Germany, [5]Department for Histology and Embryology, Center for Proteomics, School of Medicine, University of Rijeka, Rijeka, Croatia

Mo-P1-5

Grouping of subjects based on Immune Status using IFN/Cytokine production tests and serum cytokine/chemokine values using non-negative matrix factorization analysis

Kazuko Uno[1], Yuki Shimada[2], Masaharu Tsubokura[2], Yuki Shimada[2], Hitoshi Fujimiya[3], Tomoyoshi Oikawa[2]

[1]Louis Pasteur Center for Medical Research, Kyoto, Japan, [2]Minami-soma Municipal General Hospital, Minami-soma, Japan, [3]Dinacom.Ltd, Chiba, Japan

Mo-P1-6

Elucidating a potential role of African swine fever virus multigene families in subverting the interferon response

Samuel Connell[1, 2], Ana Reis[2], Lynnette Goatley[2], Sarah Gilbert[1], Steve Goodbourn[3], Linda Dixon[2]

[1]The University of Oxford, Oxford, United Kingdom, [2]The Pirbright Institute, Pirbright, United Kingdom, [3]St George's, University of London, London, United Kingdom

Mo-P1-7

Uncovering the role of chicken IFITM-mediated viral restriction.

Thomas Whitehead[1], Angela Steyn[1], Jessica Benkaroun[1], Irene Bassano[2], Alice Gray[1], Andrew Broadbent[1], Paul Kellam[2], Mark Fife[1]

[1]The Pirbright Institute, Pirbright, United Kingdom, [2]Imperial College London, London, United Kingdom

Mo-P1-8

Gene knockout technology to characterise and ablate chicken Interferon Inducible Transmembrane Proteins (chIFITMs).

Mark S Fife[1], Thomas Whitehead[1], Jessica Benkaroun[1], Angela Steyn[1], Irene Bassano[2], Paul Kellam[2]

[1]The Pirbright Institute, UK, Woking, United Kingdom, [2]Imperial College London, London, United Kingdom

Mo-P1-9

Deacetylation of RIG-I is Indispensable for Viral RNA Sensing by HDAC6

Hyun-Cheol Lee[1], Joo-Yong Lee[2], Jong-Soo Lee[1]

[1]College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South), [2]Graduate School of Analytical Science and Technology (GRAST), Chungnam National University, Daejeon, Korea, Republic of (South)

Mo-P1-10

NQO1 suppresses Antiviral Immune Response against Virus Infection

Hyun-Cheol Lee, Tae-Hwan Kim, Jong-Soo Lee

College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South)

Mo-P1-11

RIG-I-like receptor pathway is the major source of type I interferon upon severe fever with thrombocytopenia syndrome virus infection in vivo.

Shintaro Yamada[1, 2], Masayuki Shimojima[3], Hiroki Kato[1, 2], Masayuki Saijo[3], Takashi Fujita[1, 2]

[1]Laboratory of Molecular and Cellular Immunology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan, [2]Laboratory of Molecular Genetics, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [3]Department of Virology 1, National Institute of Infectious Diseases, Tokyo, Japan

Mo-P1-12

Roles of Tryptophanyl-tRNA-Synthetase as a Cytokine on Virus Infection

Hyun-Cheol Lee, Tae-Hwan Kim, Jong-Soo Lee

College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South)

Mo-P1-13

mRNA for selenoprotein P, a hepatokine, binds RIG-I protein and inhibits the RIG-I-mediated type I interferon response

Kazuhisa Murai[1], Masao Honda[1, 2], Tetsuro Shimakami[2], Takayoshi Shirasaki[1], Hirofumi Misu[3], Toshinari Takamura[3], Shuichi Kaneko[2]

[1]Department of Laboratory medicine, Kanazawa University Graduate School of Health Medicine, Kanazawa, Japan, Kanazawa, Japan, [2]Department of Gastroenterology, Kanazawa University Graduate School of Medicine, Kanazawa, Japan, Kanazawa, Japan, [3]Department of Endocrinology and Metabolism, Kanazawa University Graduate School of Medicine, Kanazawa, Japan, Kanazawa, Japan

Mo-P1-14

Influenza A H7N9 virus infects human brain astrocytes and neuronal cells and induces inflammatory immune responses

Suki Lee, Tsz-Fung Yip, Malik JS Peiris

HKU-Pasteur Research Pole, School of Public Health, The University of Hong Kong, Hong Kong, Hong Kong

Mo-P1-15

Cell type-specific roles of mitochondrial antiviral signaling protein (MAVS) during Ebola virus infection

Shelly Robertson[1], Atsushi Okumura[2], Gail S Sturdevant[1], Angela Rasmussen[2], Sonja Best[1]

[1]National Institute of Allergy and Infectious Diseases, Hamilton, MT, United States, [2]Center for Infection and Immunity, Columbia University Mailman School of Public Health, New York, NY, United States

Mo-P1-16

Impact of pneumococcal NanA-mediated host desialylation in Siglec-Toll-like receptor crosstalk

Yung-Chi Chang

Graduate Institute of Microbiology, College of Medicine, National Taiwan University, Taipei, Taiwan

Mo-P1-17

Nucleosides are endogenous ligands for TLR7 and TLR8

Takuma Shibata[1, 3], Umeharu Ohto[2], Hiromi Tanji[2], Toshiyuki Shimizu[2, 3], Kensuke Miyake[1]

[1]The Institute of Medical Science, The University of Tokyo, Tokyo, Japan, [2]Graduate School of Pharmaceutical Sciences, The University of Tokyo, Tokyo, Japan, [3]CREST, Japan Science and Technology agency, Saitama, Japan

Mo-P1-18

Influenza A virus NS1 inhibits IFN responses: identification of critical effector domains in NS1

Eleanor Fish[1, 2], Ben Xuhao Wang[1, 2]

[1]Department of Immunology University of Toronto, Toronto, Canada,
[2]Toronto General Hospital Research Institute, University Health Network, Toronto, Canada

Mo-P1-19

Interferon-stimulated gene LY6E enhances entry of diverse RNA viruses

Katrina Mar, Ian Boys, Jennifer Eitson, Matt McDougal, John Schoggins

Department of Microbiology, University of Texas Southwestern Medical Center, Dallas, United States

Mo-P1-20

MxB is an interferon-induced restriction factor of human herpesviruses

Michel Crameri[1], Raphael Walker[1], Francesca D. Franzoso[2, 3], Nicole Caduff[4], Cornelia Gujer[4], Michael Bauer[5], Karin Boucke[5], Fiona Steiner[1], Talissa Kucera[1], Andrea Zbinden[1], Christian Münz[4], Cornel Fraefel[2], Urs F. Greber[5], Jovan Pavlovic[1]

[1]Institute of Medical Virology, University of Zurich, Zürich, Switzerland, [2]Institute of Virology, University of Zurich, Zürich, Switzerland, [3]INRA/ONIRIS and Atlantic Gene Therapies, Faculty of Veterinary Medicine, Food Science and Engineering, Nantes, France, [4]Institute of Experimental Immunology, University of Zurich, Zürich, Switzerland, [5]Institute of Molecular Life Sciences, University of Zurich, Zürich, Switzerland

Mo-P1-21

Pegylated IFN-alpha-2b decreases latent HIV measures in ART-suppressed subjects

Livio Azzoni[1], Emmanouil Papasavvas[1], Nicolas Chomont[2], Qingsheng Li[3], Bonnie J. Howell[4], Douglas D. Richman[5], Pablo Tebas[6], Karam Mounzer[7], Jay Kostman[8], Luis J. Montaner[1]

[1]The Wistar Institute, Philadelphia, PA, United States, [2]Universite de Montreal, Montreal, QC, Canada, [3]University of Nebraska, Lincoln, Lincoln, NE, United States, [4]Merck & Company, West Point, PA, United States, [5]University of California San Diego, San Diego, CA, United States, [6]University of Pennsylvania, Philadelphia, PA, United States, [7]Philadelphia FIGHT, Philadelphia, PA, United States, [8]Philadelphia FIGHT Community Health Centers, Philadelphia, PA, United States

Mo-P1-22

Loss of TAK1 leads to TLR-driven macrophage cell death and inflammation that occur by a TNF-independent mechanism

Hideki Sanjo, Shinsuke Taki

Department of Molecular and Cellular Immunology Shinshu University School of Medicine, Matsumoto, Japan

Mo-P1-23

Oligomannose-coated liposomes: a novel antigen-delivery vehicle to mononuclear phagocytes and an efficient platform for vaccines for induction of cellular immunity

Yuko Matsuoka, Yasuhiro Kuroda, Naoya Kojima

Department of Applied Biochemistry, Tokai University, Hiratsuka, Japan

Mo-P1-24

An Essential Role for TAGLN2 in Phagocytosis of Lipopolysaccharide-activated Macrophages

Chang-Duk Jun

School of Life Sciences, Immune Synapse and Cell Therapy Research Center, GIST, Gwangju 61005, Gwangju, Korea, Republic of (South)

Mo-P1-25

Mycobacterium tuberculosis Rv2626c contribute to the TLR-mediated signaling in innate immunity

Chul-Su Yang, Sun Young Kim

Hanyang University, ansan, Korea, Republic of (South)

Mo-P1-26

Roles of the Mycobacterium tuberculosis antigen MPT63 and MPT64 in innate immunity

Sojin Kim[1], Chul-Su Yang[2]

[1]Hanyang university, Ansan, Korea, Republic of (South), [2]Hanyang university, Seoul, Korea, Republic of (South)

Mo-P1-27

TGF-β-mediated suppression of HBV RNA through AID-dependent recruitment of an RNA exosome complex

Kouichi Kitamura, Lusheng Que, Masamichi Muramatsu

Department of Molecular Genetics, Kanazawa University, Kanazawa, Japan

Mo-P1-28

Interferon-λ evokes the antiviral response of bystander brain microvascular endothelial cells against HIV infection

Jieliang Li[1], Runhong Zhou[2], Xu Wang[1], Wenzhe Ho[1, 2]

[1]Department of Pathology and Laboratory Medicine, Temple University Lewis Katz School of Medicine, Philadelphia, United States, [2]School of Basic Medical Sciences/State Key Laboratory of Virology, Wuhan University, Wuhan, China

Mo-P1-29

CCL2/CCR2-dependent replication of human cytomegalovirus is inhibited by anti-inflammatory compound tricin

Tsugiya Murayama[1], Daiki Nema[1], Hidetaka Sadanari[1], Masaya Takemoto[1], Tohru Daikoku[1], Naofumi Mukaida[2]

[1]Department of Microbiology and Immunology, Faculty of Pharmaceutical Sciences, Hokuriku University, Kanazawa, Japan, [2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

Mo-P1-30

C-type lectins and TLR2 play critical role in dengue virus-induced pathogenesis

Pei-Shan Sung[1], Shie-Liang Hsieh[1, 2]

[1]Institute of Clinical Medicine, National Yang-Ming University, Taipei, Taiwan, [2]Genomics Center, Academia Sinica, Taipei, Taiwan

Mo-P1-31

Effects of Mincle and Dectin-1 on myeloid cell function

Aiysha Thompson, Selinda Orr

Infection & Immunity, Cardiff University, Cardiff,, United Kingdom

Mo-P1-32

RSV-induced Gas6/Axl signal ultimately leads to severer bacterial pneumonia.

Takehiko Shibata[1], Ruiko Ogata[2], Arata Taniguchi[3], Shigeki Nakamura[4], Sohkichi Matsumoto[3], Toshihiro Ito[2], Manabu Ato[1]

[1]Department of Immunology, National Institute of Infectious Diseases, Tokyo, Japan, [2]Department of Immunology, Nara Medical University, Nara, Japan, [3]Department of Bacteriology, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan, [4]Department of Chemotherapy and Mycoses, National Institute of Infectious Diseases, Tokyo, Japan

Mo-P1-33

A Comparison of inflammatory innate immune response during Klebsiella pneumoniae B5055 induced pneumonia and sepsis

Vijay Kumar[1, 2], Sanjay Chiibber[2]

[1]The university of Queensland, Brisbane, Australia,
[2]Department of Microbiology, Panjab University, Chandigarh, India

Mo-P1-34

Microbial recognition by C-type lectin receptors encoded in the Dectin-1/ Dectin-2 cluster

Rikio Yabe, Mutsuki Kobayashi, Maki Wakatsuki, Yukiko Akahori, Shinobu Saijo

Medical Mycology Research Center, Chiba University, Chiba city, Japan

Mo-P1-35

FAS-Associated Factor-1 (FAF1) enhances Antiviral Responses to RNA Virus Infection by Targeting NLRX1

Jae-Hoon Kim, Tae-Hwan Kim, Hyun-Cheol Lee, Jong-Soo Lee

College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South)

Mo-P1-36

Rubicon suppresses Antiviral Immune Response against Virus Infection by targeting IRF3 dimerization

Jong-Soo Lee, Jae-Hoon Kim, Tae-Hwan Kim, Hyun-Cheol Lee

College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South)

Mo-P1-37

SHP Negatively Regulates the Antiviral Innate Responses against Virus Infection

Jae-Hoon Kim, Jong-Soo Lee

College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South)

Mo-P1-38

Microbially cleaved immunoglobulins are sensed by the innate immune receptor LILRA2

Kouyuki Hirayasu[1], Fumiji Saito[2], Tadahiro Suenaga[1, 2], Kyoko Shida1, Noriko Arase[2, 3], Keita Oikawa[4], Toshifumi Yamaoka[3], Hiroyuki Murota[3], Hiroji Chibana[5], Ichiro Nakagawa[6], Tomoko Kubori[7], Hiroki Nagai[7], Yuji Nakamaru[8], Ichiro Katayama[3], Marco Colonna[9], Hisashi Arase[1, 2]

[1]Laboratory of Immunochemistry, WPI Immunology Frontier Research Center, Osaka University, Suita, Japan, [2]Department of Immunochemistry, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, [3]Department of Dermatology, Graduate School of Medicine, Osaka University, Suita, Japan, [4]Department of Otolaryngology, Tenshi Hospital, Sapporo, Japan, [5]Medical Mycology Research Center, Chiba University, Chuo-ku, Japan, [6]Department of Microbiology, Kyoto University Graduate School of Medicine, Kyoto, Japan, [7]Laboratory of Combined Research on Microbiology and Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, [8]Department of Otolaryngology-Head and Neck Surgery, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [9]Department of Pathology and Immunology, Washington University School of Medicine, St. Louis, United States

Mo-P1-39

Anti-inflammatory effect of Morus alba L. bark suppresses Toll-like receptor activation in RAW264.7 macrophages

Rin Umeyama, Satoru Yokoyama, Yoshihiro Hayakawa

Division of Pathogenic Biochemistry, Institute of Natural Medicine, University of Toyama, Toyama, Japan

Mo-P1-40

Pasakbumin A controls the growth of *Mycobacterium tuberculosis* by enhancing autophagy signaling pathway and increasing nitric oxide (NO) production in mouse macrophages

Hyo-Ji Lee[1], Hyun-Jeong Ko[2], Yu-Jin Jung[1]

[1]Department of Biological Sciences, Kangwon National University, Chuncheon, Korea, Republic of (South), [2]College of Pharmacy, Kangwon National University, Chuncheon, Korea, Republic of (South)

Mo-P1-41

Antimicrobial activity against *Listeria monocytogenes* induced by interleukin-22 on hepatocytes.

Masayuki Umemura, Yamato Okita, Goro Matsuzaki

Molecular Microbiology Group, Tropical Biosphere Research Center, University of the Ryukyus., Okinawa, Japan

Mo-P1-42

Association of immune responses of porcine alveolar macrophages and host immune responses against porcine reproductive and respiratory syndrome viruses

Sang-Myeong Lee[1], Nadeem Shabir[3], Amina Khatun[2], Salik Nazki[2], Suna Gu[1], Myeon-Sik Yang[2], Bumseok Kim[2], Won-Il Kim[2]

[1]Division of Biotechnology, College of Environmental & Biosource Science Chonbuk National University, Iksan-si,, Korea, Republic of (South), [2]College of Veterinary Medicine, Iksan-si,, Korea, Republic of (South), [3]Division of Animal Biotechnology, Faculty of Veterinary Sciences and Animal Husbandry, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir, Srinagar, India

Mo-P1-43

Assessment of the Antiviral Activity of MxA against Influenza A Virus

Fiona Steiner, Stefan Spirig, Michel Crameri, Eva Moritz, Jovan Pavlovic

University of Zurich, Zurich, Switzerland

Mo-P1-44

Type I interferon suppressed MERS-CoV replication in ex vivo human respiratory tract explants culture

Hung Sing Li[1], Kenrie Pui Yan Hui[1], Denise Iok Teng Kuok[1], Man Chun Cheung[1], John Malcolm Nicholls[2], Michael Chi Wai Chan[1]

[1]School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong, [2]Department of Pathology, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong

Mo-P1-45

NLRP3 mediates NF-κB activation and cytokine gene induction under various cellular stress conditions

Takeshi Kinoshita, Ryu Imamura, Takashi Suda

Cancer Research Institute, Kanazawa university, kakuma-machi, kanazawa, Japan

Mo-P1-46

Mycobacterium tuberculosis Rv0351 exhibits vaccine potential against the highly-virulent Beijing K strain: Interaction with dendritic cells, Th1 immunity generation, immune sensing by T cells, and maintenance of multifunctional T cells

Woo Sik Kim, Jong-Seok Kim, Kee Woong Kwon, Hongmin Kim, Sung Jae Shin

Department of Microbiology, Institute for Immunology and Immunological Diseases, Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul 120-752, South Korea, Seoul, Korea, Republic of (South)

Mo-P1-47

H-Ras exerts opposing effects on type I interferon (IFN-I) responses

Guann-An Chen

Institute of Microbiology and Immunology, National Yang-Ming University, Taipei City, Taiwan

Mo-P1-48

A novel vaccine antigen target highly conserved in *Mycobacterium tuberculosis* Beijing genotype displays protection against the hyper-virulent Mtb K strain

Kee Woong Kwon, Hong-Hee Choi, Jong-Seok Kim, Seung Jung Han, Hongmin Kim, Sung Jae Shin

Department of Microbiology, Institute for Immunology and Immunological Disease, Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, Republic of (South)

Mo-P1-49

Innate immune responses in murine blastocyst *in vitro* model using embryonic and trophoblast stem cell lines

Takuo Ota[1], Miho Tamai[1, 2], Hiroaki Aikawa[1], Yoh-ichi Tagawa[1]

[1]School of Life Science and Technology, Tokyo Institute of Technology, Tokyo, Japan,
[2]Graduate School of Dental Medicine, Hokkaido University, Hokkaido, Japan

Mo-P1-50

Fugal zymosan as an effective adjuvant in an intranasal delivery of inactivated enterovirus 71 vaccine

Chiao-Li Chin[1], Bor-Luen Chiang[1, 2, 3]

[1]Graduate Institute of Immunology, and College of Medicine, National Taiwan University, Taipei, Taiwan,
[2]Graduate Institute of Clinical Medicine College of Medicine, National Taiwan University, Taipei, Taiwan,
[3]Department of Medical Research, National Taiwan University Hospital, Taipei, Taiwan

Mo-P1-51

Lysine acetyltransferase 8 (KAT8) negatively regulates virus-induced type I IFN production by enhancing IRF3 acetylation

Wanwan Huai[1], Xingguang Liu[2], Xuetao Cao[1, 2, 3]

[1]Institute of Immunology, School of Medicine, Zhejiang University, Hangzhou, China, [2]National Key Laboratory of Medical Immunology &Institute of Immunology, Second Military Medical University, Shanghai, China, [3]National Key Laboratory of Medical Molecular Biology & Department of Immunology, Institute of Basic Medical Sciences, Peking Union Medical College, Chinese Academy of Medical Sciences, Beijing, China

Mo-P1-52

The role of the IL-1 receptor in the centrally-elicited sickness response to lipopolysaccharide.

Takashi Matsuwaki[1, 2], Kiseko Shionoya[1], Robert Ihnatko[1], Anna Eskilsson[1], Shigeru Kakuta[3], Sylvie Dufour[4], Markus Schwaninger[5], Ari Waisman[6], Werner Müller[7], Emmanuel Pinteaux[7], David Engblom[1], Anders Blomqvist[1]

[1]Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden, [2]Department of Veterinary Physiology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, [3]Department of Biomedical Science, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, [4]Institut Curie/CNRS UMR144, Paris, France, [5]Institute of Experimental and Clinical Pharmacology and Toxicology, University of Lübeck, Lübeck, Germany, [6]Institute for Molecular Medicine, University Medical Center of the Johannes Gutenberg University Mainz, Mainz, Germany, [7]Faculty of Biology, Medicine and Health, University of Manchester, Manchester, United Kingdom

Mo-P1-53

A liposomal dexamethasone targeting macrophages alleviates cytokine storm during H1N1 influenza virus infection.

Jeong Won Kwon, Seung Hyeok Seok, Yirang Na

Department of Microbiology and Immunology, Seoul National University College of Medicine, seoul, Korea, Republic of (South)

Mo-P1-54

Inhibition of glycolysis improves the anti-microbial function of macrophages against *Mycobacterium massiliense* infection

Hailian Quan, Sungmo Je, Seung Hyeok Seok

Department of Microbiology and Immunology, Seoul National University College of Medicine, Seoul, Korea, Republic of (South)

19：10～21：00

Session：Poster Session 3 “Cytokines in skin inflammatory diseases”

Room: Ishikawa Ongakudō Interchange Hall

Mo-P3-1

Inflammatory cytokine mediated induction of serine racemase in atopic dermatitis

Yoko Yoshihisa[1], Maho Nakagawa[2], Mati Ur Rehman[3], Teruhiko Makino[1], Hisashi Mori[4], Tadamichi Shimizu[1]

[1]Department of Dermatology, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, [2]Advanced Technology Research Center, Fancl Research Institute, Yokohama, Japan, [3]Department of Radiological Sciences, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan, [4]Department of Molecular Neuroscience, Graduate School of Medicine and Pharmaceutical Sciences, University of Toyama, Toyama, Japan

Mo-P3-2

PI3K-Akt signaling pathway controls IL-10 producing regulatory B cell and an allergic disease

Takashi Matsushita[1], Doanh Le Huu[1, 2], Yasuhito Hamaguchi[1], Minoru Hasegawa[3], Kazuhito Naka[4], Atsushi Hirao[5], Masamichi Muramatsu[6], Kazuhiko Takehara[1], Manabu Fujimoto[7]

[1]Department of Dermatology, Kanazawa University Graduate School of Medical Sciences, Kanazawa, Japan, [2]Department of Dermatology and Venereology, Hanoi Medical University, Hanoi, Vietnam, [3]Department of Dermatology, University of Fukui, Fukui, Japan, [4]Exploratory Project on Cancer Stem Cells, Cancer Research Institute, Kanazawa University, Kanazawa, Japan, [5]Division of Molecular Genetics, Cancer Research Institute, Kanazawa University, Kanazawa, Japan, [6]Department of Molecular Genetics, Kanazawa University Graduate School of Medical Sciences, Kanazawa, Japan, [7]Department of Dermatology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan

Mo-P3-3

The itching of mycosis fungoides; the investigation of eosinophil infiltration, kallikrein 5 and IL-31

Kyoko Shimizu, Tsugunobu Andoh, Teruhiko Makino, Yoko Yoshihisa, Megumi Mizawa, Tadamichi Shimizu

University of Toyama, Toyama, Japan

Mo-P3-4

The role of IL-38 in IMQ-induced psoriasis-like skin inflammation

Ying Ying Han[1], Javier Mora[2], Mateusz Putyrski[3, 4], Andreas Ernst[3, 4], Michael Parnham[4], Bernhard Bruene[1], Andreas Weigert[1]

[1]Institute of Biochemistry I, Goethe University Frankfurt,, Frankfurt am Main, Germany, [2]Faculty of Microbiology, University of Costa Rica,, San Jose, Costa Rica, [3]Institute of Biochemistry II, Goethe-University Frankfurt,, Frankfurt am Main, Germany, [4]Fraunhofer Institute for Molecular Biology and Applied Ecology IME, Project Group Translational Medicine & Pharmacology TMP, Frankfurt am Main, Germany

Mo-P3-5

Interleukin-17A negatively regulates lymphangiogenesis in T helper 17 cell-mediated inflammation

Seung Hyo Lee, Hyeung Ju Park, Chae Min Yuk

Graduate School of Medical Science and Engineering, KAIST, Daejeon, Korea, Republic of (South)

Mo-P3-6

Autoregulatory circuit by IL-25 in keratinocytes plays a pivotal role in psoriasisform skin inflammation

Miao Xu Xu[1], huiping lu[1], Xiaohu Wang[1], Wei Jin[1], Yuping Lai2, Chen Dong[1]

[1]Institute for Immunology and School of Medicine, Tsinghua University, Beijing, China, [2]Shanghai Key Laboratory of Regulatory Biology, School of life sciences, East China Normal University, Shanghai, China

Mo-P3-7

Single-cell gene and protein expression analysis revealed functional and migratory heterogeneity in regulatory T cells of inflamed skin

Ryoyo Ikebuchi[1, 2], Maika Fujimoto[1], Taiki Moriya[1], Hiromi Okuyama[1], Yutaka Kusumoto[1], Michio Tomura[1]

[1]Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, Tondabayashi, Japan, [2]Research Fellow of Japan Society for the Promotion of Science, Tokyo, Japan

Mo-P3-8

Chicken egg yolks ameliorate ear edema in imiquimod-induced psoriasis mouse model by inhibiting of IL-17 production

Yoshihiro Okamoto, Ayaka Kimura, Chihiro Odagawa, Maho Yoshimura

Laboratory of Immunology and Microbiology, Faculty of Pharmacy, Chiba Institute of Science, Choshi, Japan

Mo-P3-9

Clec10a suppresses house dust mite-induced dermatitis

Kazumasa Kanemaru[1], Emiko Noguchi[2], Kaori Denda-Nagai[4], Tatsuro Irimura[4], Satoko Tahara-Hanaoka1, 3, Akira Shibuya[1, 3]

[1]Department of Immunology, Faculty of Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan, [2]Department of Medical Genetics, Faculty of Medicine, University of Tsukuba, Tsukuba, Ibaraki, Japan, [3]Life Science Center of Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Tsukuba, Ibaraki, Japan, [4]Division of Glycobiologics, Intractable Disease Research Center, Juntendo University School of Medicine, Hongo, Bunkyo-ku, Tokyo, Japan

Mo-P3-10

TYK2-mediated basal STAT3 activity and IL-17-induced mRNA stabilization coordinately dictate the expression level of IκB-ζ in keratinocytes

Ryuta Muromoto, Keisuke Tawa, Yui Ohgakiuchi, Tadashi Matsuda

Department of Immunology, Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo, Japan

Mo-P3-11

A variety of Th17 subsets derived from pathogenic CD31-CCR6+ naïve type CD4 T cells in psoriasis.

Sanju Iwamoto[1], Shin-ichi Hashimoto[2]

[1]Division of Physiology and Pathology, Department of Pharmacology, Toxicology and Therapeutics, Showa University of Pharmacy, Tokyo, Japan, [2]Department of Institute of Medical Pharmaceutical and Health Science, Graduate School of Medical Science, Kanazawa University, Kanazawa, Japan

19：10～21：00

Session：Poster Session 5 “Genetic disorders in cytokines and inflammation”

Room: Ishikawa Ongakudō Interchange Hall

Mo-P5-1

IL-1β and caspase-11 independently contribute to production of pathogen-specific IgM by B1 B cells

Jinyong Wang, Louis Lanier, Kelly Deobald, Manoranjan Sahoo, Fabio Re

Department of Immunology and Microbiology, Rosalind Franklin University of Medicine and Science, North Chicago, IL 60064, USA, North Chicago, United States

Mo-P5-2

IFN-λ4 attenuates antiviral responses by enhancing negative regulation of IFN signaling

Olusegun O Onabajo[1], Adeola A Obajemu[1], Nina Rao[1], Kari A Dilley[2], Faruk Sheikh[3], Raymond P Donnelly[3], Reed S Shabman[2], Ludmila Prokunina-Olsson[1]

[1]Laboratory of Translational Genomics, Division of Cancer Epidemiology and Genetics, National Cancer Institute, National Institutes of Health, Bethesda, United States, [2]Virology Group, J. Craig Venter Institute, Rockville, United States, [3]Office of Biotechnology Products, Center for Drug Evaluation and Research, Food and Drug Administration, Silver Spring, United States

Mo-P5-3

Investigation of skeletal abnormalities in mice with constitutively activated MDA5

Nobumasa Soda[1, 2], Nobuhiro Sakai[3], Hideo Onizawa[2, 4], Masamichi Takami[3], Hiroki Kato[1, 2], Takashi Fujita[1, 2]

[1]Laboratory of Molecular and Cellular Immunology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan, [2]Laboratory of Genetics and Molecular Biology, Institute for Frontier Life and Medical Science, Kyoto University, Kyoto, Japan, [3]Department of Pharmacology, School of Dentistry, Showa University, Tokyo, Japan, [4]Department of Rheumatology and Clinical Immunology, Graduate School of Medicine, Kyoto University, Kyoto, Japan

Mo-P5-4

Crohn's disease-associated epigenetic reader SP140 orchestrates macrophage transcriptional programs through control of DNA unwinding mechanisms

Hajera Amatullah, Stuti Mehta, Sreehas Digumarthi, Kate L Jeffrey

1Gastrointestinal Unit and Center for the Study of Inflammatory Bowel Diseases, Massachusetts General Hospital, Harvard Medical School, Boston, United States

Mo-P5-5

Longitudinal analysis of circulating interleukin-18 in patients with familial Mediterranean fever carrying *MEFV* mutation in exon 10

Taizo Wada, Tomoko Toma, Hanae Miyazawa, Eiko Koizumi, Tetsushiro Shirahashi, Yusuke Matsuda, Akihiro Yachie

Department of Pediatrics, School of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, Japan

Mo-P5-6

Regulation and Genetic Heterogeneity of Select Interferon Stimulated Genes Independently Restrict ZIKV Infection

Justin Taft, Jennie Altman, Sofija Buta, Marta Martin-Fernandez, Dusan Bogunovic

Icahn School of Medicine at Mount Sinai Dept. of Microbiology, New York, United States

Mo-P5-7

The inflammasome adaptor ASC suppresses tumor cell apoptosis, independent of inflammation, via IL18 in gastric cancer.

Virginie Deswaerte[1], Paul Nguyen[2], Brendan Jenkins[1], Tracy Putoczki[2]

[1]Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Clayton, Australia, [2]Inflammation Division, Walter and Eliza Hall Institute of Medical Research, Parkville, Australia

Mo-P5-8

Mycoplasma superantigen promotes HMGB1 and IFNα by auto-inflammatory synovial fibroblasts through TLR4/IRF7 signaling in collage-induced arthritis

Hong-Hua Mu, Jingyi Wang, Anita Trinh, Neil Xia

Department of Internal Medicine, University of Utah Health Science Center, Salt Lake City, United States

Mo-P5-9

Genetic analysis of DNA-responses

Alexander Poltorak[1], Vladimir Ilyukha[2]

[1]Tufts University, Boston, United States, [2]Petrozavodsk State University, Petrozavodsk, Russia

Mo-P5-10

Intestinal inflammation induced with Zearalenone (ZEA) is mediated by the NLRP3 inflammasome

Wentao Fan, Suquan Song

College of Veterinary Medicine, Nanjing Agricultural University, Nanjing, China

Mo-P5-11

Genome wide characterization of a STAT1-independent antiviral and immunoregulatory transcriptional program induced by the costimulation with IFNβ and TNFα

Nathalie Grandvaux[1, 2], Melissa K Mariani[1, 2], Pouria Dasmeh[2], Audray Fortin[1], Elise Caron[1], Sandra Cervantes-Ortiz[1, 2], Espérance Mukawera[1], Adrian WR Serohijos[2]

[1]Centre de recherche du CHUM (CRCHUM), Montreal, Canada,
[2]Faculty of Medicine, Université de Montréal, Montréal, Canada

Mo-P5-12

The evolution of IL-2, IL-15 and IL-15L family cytokines; the first report on the function of ancient IL-15L.

Johannes M. Dijkstra[2], Takuya Yamaguchi[1], Uwe Fischer[1], Keiichiro Hashimoto[2]

[1]Friedrich Loeffler Institute, Insel Riems, Germany, [2]Fujita Health University, Toyoake, Japan

Mo-P5-13

Cytokine and Chemokine Profiling in Patients with Hand, Foot and Mouth Disease in Singapore and Malaysia.

Fiona Mei Shan Teo[1], Justin Jang Hann Chu[1, 2]

*[1]Collaborative and Translation Unit for HFMD, Institute of Molecular and Cell Biology, Agency for Science, Technology and Research (A*STAR), Singapore, Singapore,*
[2]Laboratory of Molecular RNA Virology and Antiviral Strategies, Department of Microbiology and Immunology, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore

Mo-P5-14

IL-17C/IL-17RE augments T cell function in autoimmune hepatitis

Jinling Huang[1, 2], Qing Yuan[3], Hui Zhu[4], Lan Yin[5], Shanjuan Hong[1, 2], Zhongjun Dong[1, 2], Chen Dong[1, 2]

[1]Institute for Immunology, Tsinghua University, Beijing, China, [2]School of Medicine, Tsinghua University, Beijing, China, [3]Organ Transplantation Center, Organ Transplantation Institute, 309th Hospital, Beijing, China, [4]Shanghai Public Health Clinical Center, Shanghai, China, [5]Department of Immunology and Pathogen Biology, Tongji University School of Medicine, Shanghai, China

Mo-P5-15

Mice deficient of interleukin-15 develop Sjogren's syndrome-like phenotype

Nan-Shih Liao[1], Gilbert Aaron Lee[2], Ruoyu Ma[1]

[1]Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan,
[2]Department of Medical Research, Taipei Medical University Hospital, Taipei, Taiwan

Mo-P5-16

Dysregulated interleukin-1 activity results in male infertility.

Kaito Masaki[1], Shunta Sakanishi[2], Shigeru Kyuwa[2], Shigeru Kakuta[2], Seiji Takashima[1]

[1]Graduate school of Science and Technology, Shinshu University, 3-15-1 Tokida, Ueda, Nagano 38, Japan,
[2]Graduate School of Agricultural and Life Sciences, The University of Tokyo, 1-1-1 Yayoi, Bunkyo, Tokyo, 11, Japan

Mo-P5-17

Mutations of the Interleukin-11 receptor which cause craniosynostosis in human patients influence receptor trafficking and maturation

Maria Agthe, Juliane Lokau, Samadhi Aparicio-Siegmund, Julian Bruegge, Joachim Groetzinger, Stefan Rose-John, Christoph Garbers

Institute of Biochemistry, University of Kiel, Kiel, Germany

19：10～21：00

Session：Poster Session 7 "Signal transduction and metabolic regulation"

Room: Ishikawa Ongakudō Interchange Hall

Mo-P7-1

STAT3-dependent negative regulation of IFN response by phospholipid scramblase 2

Chien-Kuo Lee, Ming-Hsun Tsai

Graduate Institute of Immunology, National Taiwan University College of Medicine, Taipei, Taiwan

Mo-P7-2

Suppression of JAK-STAT pathway ameliorated manifestations of primary Sjögren's syndrome: Downregulation of interferon-stimulated factors, BAFF and IP10 in salivary gland epithelial cells.

Jaeseon Lee[1], Jennifer Lee[2], Seung-ki Kwok[1, 2], SeungYe Baek[1], Se Gwang Jang[1], Seung-min Hong[1], Sun Shim Choi[3], Mi-La Cho[1], Sung-Hwan Park[1, 2]

1Rheumatism Research Center, Institute of Biomedical Industry, The Catholic University, Seoul, Korea, Republic of (South), 2Division of Rheumatology, Department of Internal Medicine, College of Medicine, The Catholic University, Seoul St. Mary's Hospital, Seoul, Korea, Republic of (South), 3Division of Biomedical Convergence, College of Biomedical Science, and Institute of Bioscience & Biotechnology, Kangwon National University, Chuncheon, Korea, Republic of (South)

Mo-P7-3

IFN-γ priming utilizes Warburg metabolism to increase human macrophage function and subsequently enhance polyfuctional cytokine production from T cells in response to Mycobacterium tuberculosis.

Sharee Ann Basdeo, James Phelan, Donal Cox, Padraic Dunne, Joseph Keane

Trinity Translational Medicine Institute, St James's Hospital, Trinity College, The University of Dublin, Dublin, Ireland

Mo-P7-4

Caspase-1 serves as an apoptosis-initiating caspase in the absence of Gasdermin D (GSDMD)

Kohsuke Tsuchiya, Muhammad Mamunur Rashid Mahib, Takashi Suda

Division of Immunology and Molecular Biology, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

Mo-P7-5

Outlining the unique characteristics of the type I and type III interferon sensing pathways

Adriana Forero, Snehal Ozarkar, Lomon So, Ram Savan

Department of Immunology, University of Washington, Seattle, United States

Mo-P7-6

NLRP3 inflammasome activation downstream of cytoplasmic LPS recognition by both caspase-4 and caspase-5

Paul J Baker[1, 2], Dave Boucher[3], Natalie J Bitto[4], Damien Bierschenk[3], Christina Tebartz[5, 6], Paul G Whitney[5, 6], Sammy Bedoui[5, 6], Kate Schroder[3], Richard L Ferrero[4], Seth L Masters[1, 2]

[1]Inflammation division, Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, [2]Department of Medical Biology, University of Melbourne, Parkville, Australia, [3]Cell Biology and Molecular Medicine division, Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia, [4]Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Clayton, Australia, [5]Peter Doherty Institute for Infection and Immunity, Melbourne, Australia, [6]Department of Microbiology and Immunology, University of Melbourne, Parkville, Australia

Mo-P7-7

Immunomodulatory effects of focal adhesion kinase in human macrophages and pneumocytes during avian influenza A H5N1 virus infection

Mandy Man Ting Ng, Rachel Hiu Ha Ching, Michael Chi Wai Chan, Kenrie Pui Yan Hui

School of Public Health, Li Ka Shing Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong

Mo-P7-9

Phosphorylation of Ser386 is important post-translational modification for dimerization of the transcription factor IRF-3 via *trans*-interaction between Ser386 phosphate and IRF-3 basic pocket

Hiroto Abe[1, 2], Koh Takeuchi[3], Hiroki Kato[1, 2], Takashi Fujita[1, 2]

[1]Laboratory of Molecular Genetics, Department of Genetics and Molecular Biology, Institute for Frontier Life and Medical Sciences, Kyoto University, Kyoto, Japan, [2]Laboratory of Molecular and Cellular Immunology, Department of Molecular and Cellular Biology, Graduate School of Biostudies, Kyoto University, Kyoto, Japan, [3]Biomedicinal Information Research Center & Molecular Profiling Research Center for Drug Discovery, National Institute of Advanced Industrial Science and Technology, Tokyo, Japan

Mo-P7-10

Reactive oxygen species suppress the cellular chemotaxis.

Akira Yamauchi, Shuichiro Okamoto, Futoshi Kuribayashi

Department of Biochemistry, Kawasaki Medical School, Kurashiki, Japan

Mo-P7-11

Fate decision of activated STAT3 for nuclear accumulation or export through regulated multiple conformational changes

Junhao Yang[1], Hiroyuki Kunimoto[1], Bumpei Katayama[2], Lingyu Wang[1], Hong Zhao[1], Toshiyuki Ozawa[2], Daisuke Tsuruta[2], Koichi Nakajima[1]

[1]Department of Immunology Graduate School of Medicine Osaka City University, Osaka, Japan, [2]Department of Dermatology Graduate School of Medicine Osaka City University, Osaka, Japan

Mo-P7-12

Cell cycle does not contribute to cell-to-cell heterogeneity of interferon responses

Piotr Topolewski, Michal Komorowski

Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw, Poland

Mo-P7-13

Sensing and remembering IFNs concentrations.

Karolina Ewa Zakrzewska, Tomasz Jetka, Karol Nienałtowski, Katrzyna Szymańska, Katarzyna Andryka, Piotr Topolewski, Edyta Głów, Michał Komorowski

Institute of Fundamental Technological Research Polish Academy of Sciences, Warsaw, Poland

Mo-P7-14

STAT1 is essential for IL-21 expression in T follicular helper cells

Roza Nurieva, Anupama Sahoo, Andrei Alekseev

MD Anderson Cancer Center, Houston, United States

Mo-P7-15

Depletion of adipose tissue CD206 M2 macrophages improve insulin sensitivity

Allah Nawaz[1], Tomonobu Kado[1], Takashi Nakagawa[2], Kumiko Saeki[3], Isao Usui[1], Shiho Fujisaka[1], Kazuyuki Tobe[1]

[1]First Department of Internal Medicine, University of Toyama, Toyama shi, Japan, [2]Department of Nutrition and Metabolism, Toyama, Japan, [3]Department of Disease Control, Research Institute, National Center for Global Health and Medicine, Tokyo, Japan

Mo-P7-16

Activation of CCR5 in breast cancer regulates metabolism to promote tumorigenesis

Eleanor N Fish[1, 2], Darrin Gao[1, 2]

[1]University Health Network & University of Toronto, Canada, Toronto, Canada, [2]Toronto General Hospital Research Institute, University Health Network, Toronto, Canada

Mo-P7-17

Zika virus NS5 protein interferes with the RIG-I signaling pathway and inhibits the expression of interferon lambda1 gene

Ilkka Julkunen[1], Rickard Lundberg[1], Krister Melen[1, 2], Miao Jiang[2], Veera Westenius[2], Olli Vapalahti[3], Pamela Österlund[2], Laura Kakkola[1]

[1]Institute of Biomedicine/virology, University of Turku, Turku, Finland, [2]Expert Microbiology Unit, National Institute for Health and Welfare, Helsinki, Finland, [3]Deaprtment of Virology, University of Helsinki, Helsinki, Finland

Mo-P7-18

E3 ubiquitin-protein ligase RBX1 interacts with RIG-I receptor to inhibit its helicase activity

Seiichi Sato, Naoya Katsuyama, Mei Hashizume, Nozomi Sakurai, Yohei Miyashita, Kai Li, Akinori Takaoka

Division of Signaling in Cancer and Immunology, Institute for Genetic Medicine, Molecular Medical Biochemistry Unit, Biological Chemistry and Engineering Course, Graduate School of Chemical Sciences and Engineering, Hokkaido University, Sapporo, Japan

Mo-P7-19

IL-4 recovers insulin signaling activity in FFA-induced insulin resistance in 3T3-L1 adipocytes.

Iurii Stafeev[1, 2], Svetlana Michurina[1, 2], Alexander Vorotnikov[1], Mikhail Menshikov[1], Yelena Parfyonova[1, 2]

[1]Russian Cardiology Research and Production Center, Moscow, Russia,
[2]Lomonosov Moscow State University, Moscow, Russia

Mo-P7-20

Differential effect of SUMO1 and SUMO3 on PKR localisation and activation

Ghizlane Maarifi, Laurent Dianoux, Mounira K Chelbi-Alix

INSERM UMR-S 1124, Université Paris Descartes, 45 rue des Saints-Pères, Paris 75006, France

Mo-P7-21

Comparative transcriptomic analysis of control metabolism and virulence of Mycobacterium tuberculosis

Jae-Sung Kim[1, 2], Yang Chul-Su[1, 2]

[1]Department of Molecular and Life Science, Hanyang University, Ansan, Korea, Republic of (South),
[2]Department of Bionano Technology, Hanyang University, Seoul, Korea, Republic of (South)

Mo-P7-22

Differential regulation of TLR2-mediated IFN-β production by SHP2 and Gsk3β in macrophages

Soo Young Lee, Jin Hee Park, Ryeojin Ko

Ewha Womans University, Seoul, Korea, Republic of (South)

Mo-P7-23

Cbl dependent JAK2 K-63 conjugated ubiquitination is required for JAK2 phosphorylation and GM-CSF signal transduction

Jeffrey JY Yen[1], Chun-Shan Liu[1], Hsin-Fang Yang-Yen[2], Ming-Jing Hwang[1], Ching-Shu Suen[1]

[1]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan,
[2]Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan

Mo-P7-24

Inhibition of NALP3 signaling impaired skin wound healing

Hiroyasu Ito[1], Ayumu Kanbe[1], Hiroyasu Sakai[2], Mitsuru Seishima[1]

[1]Department of Informative Clinical Medicine, Gifu University Graduate School of Medicine, Gifu, Japan,
[2]Department of Gastroenterology, Internal Medicine, Gifu University Graduate School of Medicine, Gifu, Japan

Mo-P7-25

The role of IL-6 family cytokines in intestinal homeostasis and regeneration

Koji Taniguchi, Akihiko Yoshimura

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

Mo-P7-26

Tumor-secreted factors induce the maturation and secretion of IL-1β via glucose-mediated synergistic modulation of NF-κB and mTOR signaling in bone marrow-derived macrophages

Yunseo Woo[1, 2], Gwang-Won Jang2, Yu-Jin Jung[1, 2]

[1]Department of Biological Sciences, Kangwon National University, Chuncheon, Rep. of Korea, 200-701., Chuncheon-si, Korea, Republic of (South), [2]BIT Medical Convergence Program, Kangwon National University, Chuncheon, Rep. of Korea, 200-701., Chuncheon-si, Korea, Republic of (South)

Mo-P7-27

Identification of an EF-hand motif protein for regulation of Jak-Stat signaling pathway

Kazuo Okamoto[1], Maia Inoue[2], Hiroshi Takayanagi[2]

[1]Department of Osteoimmunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan

Mo-P7-28

mTORC2-mediated AKT activation in the early endosome of cells activated with growth factors

Suree Kim, Dongmin Kang

Ewha Womans University, SEOUL, Korea, Republic of (South)

Mo-P7-29

The Effects of Tumor Suppressor INPP4B Oxidation on Akt Signaling and Actin Polymerization in Cancer Cells.

Sukyeong Heo, Dongmin Kang

Ewha Womans University, Seoul, Korea, Republic of (South)

Mo-P7-30

Establishment of strategy to predict cytotoxicity of unknown drugs by monitoring autophagic flux with imaging methods.

Soohee Choi, Dongmin Kang

Ewha Womans University, Seoul, Korea, Republic of (South)

Mo-P7-31

Study on the Effect of Metformin and Succinate on the Differentiation and Functions of Mesenchymal Stem Cell

Hsin Ho[1], Bor-Luen Chiang[2]

[1]Graduate Institute of Oral Biology, School of Dentistry, National Taiwan University, Taipei, Taiwan, [2]Graduate Institute of Clinical Medicine College of Medicine of National Taiwan University, Taipei, Taiwan

Mo-P7-32

Regulatory action of toll-like receptor 2 in a non-alcoholic steatohepatitis mouse model

Min YI[1], Masashi KOHANAWA[1], Sanae HAGA[2], Michitaka OZAKI[2]

[1]Graduate School of Medicine, Hokkaido University, Sapporo, Japan,
[2]Graduate School of Health Sciences, Hokkaido University, Sapporo, Japan

Mo-P7-33

Ets-related transcription factor GABPα is involved in the survival of mouse embryonic stem cells.

Atsushi Ueda, Tadayuki Akagi, Takashi Yokota

Department of Stem Cell Biology, Faculty of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, Japan

Mo-P7-34

The Notch signal indiuce a novel naive-like memory T cells (iTscm) from activated T cells

Akihiko Yoshimura, Taisuke Kondo

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

19：10～21：00

Session：Poster Session 9 “Anti-cytokine therapy for inflammatory human diseases”

Room: Ishikawa Ongakudō Interchange Hall

Mo-P9-1

Proliferative activity of immune cells is associated with the presence of TNF-alpha receptors type 2

Alina Alshevskaya[1], Julia Lopatnikova[1], Irina Belomestnova[2], Julia Sennikova[2], Sergey Sennikov[1]

[1]Federal State Budgetary Scientific Institution “Research Institute of Fundamental and Clinical Immunology”, Novosibirsk, Russia, [2]Novosibirsk State Medical University, Novosibirsk, Russia

Mo-P9-2

A Novel System for the Quantification of the ADCC Activity of Therapeutic Antibodies

Michael Gerard tovey[1], Christophe Lallemand[2], Feifei Liang[2], Flore Staub[2], Maud Simansour[2], Benoit Vallette[2], Lue Huang[2], Rosa Ferrando-Miguel[2]

[1]Laboratory of Biotechnology & Applied Pharmacology, Ecole Normale Supérieure de Cachan,, Cachan, France, [2]Biomonitor SAS, Villejuif Bio Park, 1 Mail du Professeur Georges Mathé, Villejuif, France

Mo-P9-3

Global transcriptomic analysis identifies cytokine-regulated pathways that determine discrete synovial pathotypes in inflammatory arthritis

David Hill[1], Xiao Liu[1], Javier Uceda[1], Benjamin Cossins[1], Joanne Morgan[1], Nigel Williams[1], Robert Andrews[1], Anwen Williams[1], Costantino Pitzalis[2], Simon Jones[1], Gareth Jones[1]

[1]School of Medicine, Cardiff University, Cardiff, United Kingdom, [2]Centre for Experimental Medicine and Rheumatology, William Harvey Research Institute, Barts and The London School of Medicine and Dentistry, Queen Mary University of London, John Vane Science Centre, London, United Kingdom

Mo-P9-4

Creating a super-cytokine: a structural perspective on the super-agonists of interluekin-21

Zhian Chen[1], Yanfang Cui[1], Yewann Leong[1], Dene Littler[1], Fiona Whightman[2], Travis Beddoe[3], Jamie Rossjohn[1], Charles Mackay[1], Di Yu[1, 4]

[1]Monash Biomedicine Discovery Institute, Monash University, Clayton, Australia, [2]Peter Doherty Institute for Infection and Immunity, University of Melbourne, Parkville, Australia, [3]School of Life Sciences, La Trobe University, Melbourne, Australia, [4]John Curtin School of Medical Research, The Australian National University, Canberra, Australia

Mo-P9-5

Transcriptome analysis reveals PDGF signaling-dependent regulation of myelofibrosis in murine chronic graft-versus-host diseases

Shigeyuki Shichino[1, 2], Satoshi Ueha[1, 2], Naoto Sudo[1, 2], Mizuha Kosugi-Kanaya[1, 2, 3], Francis HW Shand[1, 2], Teppei Morikawa[4], Shin-ichi Hashimoto[1, 2, 5], Takanori Teshima[3], Kouji Matsushima[1, 2]

[1]Deptartment of Molecular Preventive Medicine, the University of Tokyo, Tokyo, Japan, [2]AMED, Tokyo, Japan, [3]Department of Hematology, Hokkaido University Graduate School of Medicine, Sapporo, Japan, [4]Department of Pathology, The University of Tokyo Hospital, Tokyo, Japan, [5]Division of Nephrology, Department of Laboratory Medicine, Kanazawa University, Ishikawa, Japan

Mo-P9-6

IL-2 induces regulatory B cells

Akimichi Inaba[1], Rebeccah Mathews[1], Lucy Truman[1], Linda Wicker[2], John Todd[2], Frank Waldron-Lynch[1], Menna Clatworthy[1]

[1]University of Cambridge, Cambridge, United Kingdom, [2]University of Oxford, Oxford, United Kingdom

Mo-P9-7

Novel anti-cytokine therapy targeting granulocyte-colony stimulating factor in chronic airway disease using adeno-associated viral vectors.

Evelyn Tsantikos[1], Margaret L Hibbs[1], Maverick Lau[1, 2], Gary P Anderson[2]

[1]Monash University, Melbourne, Australia, [2]University of Melbourne, Melbourne, Australia

Mo-P9-8

Newly identified molecular mechanism of glucocorticoid action in arthritis

Adrian Achuthan, Amy Hsu, Tanya Lupancu, Ming-Ching Lee, Reem Saleh, Andrew Fleetwood, Andrew Cook, John Hamilton

University of Melbourne, Parkville, Australia

Mo-P9-9

Interferon-alpha overexpression triggers an expansion of highly suppressive regulatory T lymphocytes protecting against experimental arthritis

Matthieu Ribon[1, 2], Katarzyna Matyja[1, 2], Roxane Hervé[1, 2], Delphine Lemeiter[1, 2], François Santinon[1, 2], Ken Tsumiyama[3], Shunichi Shiozawa[3], Marie-Christophe Boissier[1, 2, 4], Natacha Bessis[1, 2], Patrice Decker[1, 2]

[1]University of Paris 13, Sorbonne Paris Cité, Li2P, Bobigny, France, [2]Inserm, UMR 1125, Bobigny, France, [3]Kyushu University Beppu Hospital, Department of Medicine, Rheumatic Diseases Unit, Beppu, Japan, [4]Avicenne Hospital, Rheumatology Department, AP-HP, Bobigny, France

Mo-P9-10

NUE7770: A selective inhibitor of the first BET bromodomain with strong anti-inflammatory activity in the absence of BET-associated toxicity

Søren Jensby Nielsen, Visnja Poljak, Margit Haahr Hansen, Luigi Stasi, Thomas Franch, Jimmi Seitzberg, Loris Moretti, Christina Underwood, Gitte Friberg, Berit Tonnesen, Lene Teuber, Mads Nørregaard-Madsen, Alex Gouliaev

Nuevolution A/S, Copenhagen, Denmark

Mo-P9-11

Interleukin-6 (IL-6) trans-presentation is a novel mode of IL-6 signaling that is crucial for the generation of pathogenic Th17 cells

Christoph Garbers[1], Sylvia Heink[2], Thomas Korn[2, 3], Stefan Rose-John[1]

[1]Institute of Biochemistry, Kiel University, Kiel, Germany, [2]Klinikum rechts der Isar, Department of Neurology, Technical University of Munich, Munich, Germany, [3]Munich Cluster for Systems Neurology, SyNergy, Munich, Germany

Mo-P9-12

Macrophage migration inhibitory factor is involved in dengue NS 1-induced glycocalyx degradation and vascular leakage

Trai Ming Yeh

National Cheng Kung University, Tainan, Taiwan

Mo-P9-13

Changes in Serum Cytokine and chemokine in Multicentric Castleman's disease after Tocilizumab IL-6 blocking Therapy

Kazuyuki Yoshizaki[1], Kazuko Uno[2]

[1]The Institute of Scientific and Industrial Research, Osaka University, Osaka, Japan, [2]Louis Pasteur Center for Medical Research, Kyoto, Japan

Mo-P9-14

Inhibition of Dengue virus infection by targeting on macrophage migration inhibitory factor-induced autophagy

YEN-CHUNG LAI[1], TRAI-MING YEH[2]

[1]The Institute of Basic Medical Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan, [2]Department of Medical Laboratory Science and Biotechnology,College of Medicine, National Cheng Kung University, Tainan, Taiwan

Mo-P9-15

The effects of biologic agents on osteoclast lineage cells evaluated by intravital two-photon microscopy.

Yoshinobu Matsuura, Junichi Kikuta, Masaru Ishii

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

Mo-P9-16

Targeting TNF-α against dengue virus-induced neurotoxicity and encephalitis

Chiou-Feng Lin[1, 2], Ming-Kai Jhan[1, 2], Jo-Chi Kao[1, 2], Tsung-Ting Tsai[1], Min-Ru Ho[1, 2], Ting-Jing Shen[1, 2]

[1]Department of Microbiology and Immunology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan, [2]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan

Mo-P9-17

Development of TNF-α Vaccine for Inflammatory Diseases

Wei-Chun HuangFu[1, 2], Li-Tzu Chin[1]

[1]The Ph.D. Program for Cancer Biology and Drug Discovery, College of Medical Science and Technology, Taipei Medical University, Taipei, Taiwan, [2]Ph.D. Program in Biotechnology Research and Development, College of Pharmacy, Taipei Medical University, Taipei, Taiwan

Mo-P9-18

IL-6 Promotes Cell Growth and Is Associated With Poor Prognosis In Patients With Oral Cancer

Ling-Ying Wei[1, 2], Jang-jaer Lee[2], Jean-san Chia[3]

[1]National Taiwan University, Graduate Institute of Clinical Dentistry, Taipei, Taiwan, [2]National Taiwan University Hospital, Oral and Maxillofacial Surgery Department, Taipei, Taiwan, [3]National Taiwan University, Graduate Institute of Immunology, Taipei, Taiwan

19：10～21：00

Session：Poster Session 11 "Emerging cytokines"

Room: Ishikawa Ongakudō Interchange Hall

Mo-P11-1

What is a cytokine? Drawing meaning from structure, evolution & interactions

J Fernando Bazan

Bio-Techne, Minneapolis, MN, United States, Dept. of Pharmacology, Univ. of Minnesota School of Medicine, Minneapolis, MN, United States

Mo-P11-2

Analysis of the roles of IL-1 on homeostasis using mice deficient for negative regulators of IL-1 signaling

Shunta Sakanishi[1], Shigeru Kakuta[1, 2], Kenji Shimizu[2, 3], Aoi Akitsu[2, 3], Takashi Matsuwaki[4], James Ken Chambers[5], Kaito Masaki[6], Sachiko Kubo[2, 4], Yang Liu[2], Akiko Nakajima[2], Reiko Horai[2, 7], Harumichi Ishigame[2, 8], Seiji Takashima[6], Yoichiro Iwakura[2, 4], Shigeru Kyuwa[1]

[1]Department of Biomedical Science, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, [2]Center for Experimental Medicine and Systems Biology, Institute of Medical Science, The University of Tokyo, Tokyo, Japan, [3]Center for Experimental Animal Models, Institute for Biomedical Sciences, Tokyo University of Science, Noda, Japan, [4]Department of Veterinary Physiology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, [5]Department of Veterinary Pathology, Graduate School of Agricultural and Life Sciences, The University of Tokyo, Tokyo, Japan, [6]Faculty of Textile Science and Technology, Shinshu University, Ueda, Japan, [7]Laboratory of Immunology, National Eye Institute, NIH, Bethesda, United States, [8]Laboratory of Tissue Dynamics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

Mo-P11-3

Astrocyte-derived Interleukin-33 promotes microglial -synapse pruning during brain development

Ilia Vainchtein, Gregory Chin, Ari Molofsky, Anna Victoria Molofsky

University of California-San Francisco, San Francisco, United States

Mo-P11-4

IL-33 modulates lung inflammation induced by the IL-6-type (gp130) cytokine Oncostatin M

Fernando Botelho[1], Anisha Dubey[1], Rex Park[1], Alison Humbles[2], Roland Kolbeck[2], Carl D Richards[1]

[1]McMaster Immunology Research Centre, Department of Pathology and Molecular Medicine, McMaster University, Hamilton, Canada, [2]Department of Respiratory, Inflammation and Autoimmunity, MedImmune LLC,, Gaithersburg, United States

Mo-P11-5

IL-36α plays an important role in the development of imiquimod-induced psoriasiform dermatitis through activation of skin-resident cells

Soo-hyun Chung

Center for Animal Disease Models, Research Institute for Biomedical Sciences (RIBS), Tokyo University of Science, Noda-city, Japan

Mo-P11-6

Interleukin-36γ: roles in lungs innate immunity, inflammation and allergy

Hock L Tay, Alan Hsu, ThiHiep Nguyen, Chantal Donovan, Adam Collison, Joerg Mattes, Gerard E Kaiko, Ming Yang, Philip M Hansbro, Paul S Foster

Priority Research Centre for Healthy Lungs, Department of Microbiology and Immunology, School of Pharmacy and Biomedical Sciences, Faculty of Health and Hunter Medical Research Institute, University of Newcastle, NSW, Australia., Newcastle, Australia

Mo-P11-7

Application of Adeno-Associated virus expressing human interleukin-37 in autoimmune cholangitis mice

Chia-I Lin, Bi-Jhen Syu, Ya-Hui Chuang

Department of Clinical Laboratory Sciences and Medical Biotechnology, College of Medicine, National Taiwan University, Taipei, Taiwan

Mo-P11-8

Dysregulated interleukin-37 signaling contributes to the increased collagen production in scleroderma skin.

Hideo Kudo, Masatoshi Jinnin, Hironobu Ihn

Department of Dermatology and Plastic Surgery, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

Mo-P11-9

IL-27 controls T cell subsets in Toxoplasmosis

Jeongho Park, Jonathan DeLong, Gaia Muallem, Christopher A Hunter

University of Pennsylvania, Philadelphia, United States

Mo-P11-10

IL-27 modulates the immune anti-tumor outcome of chronic levels of IFN-gamma (IFNγ) in mice with underlying autoimmunity.

Julio Cesar Valencia, Michael Sanford, John Fenimore, Rebecca Erwin-Cohen, Howard Young

NCI-Frederick, Frederick, United States

Mo-P11-11

Differential regulation of feed foreward and feedback signaling between IL27 and IFNγ in solid tumor cells

Claude Haan[1], Catherine Rolvering[1], Andreas D Zimmer[1], Aurélien Ginolhac[2], Ines Kozar[1], Petr N Nazarov[3], Iris Behrmann[1]

[1]University of Luxembourg, Life Sciences Research Unit - Signal Transduction Laboratory, 6, avenue du Swing,, Belvaux, Luxembourg, [2]University of Luxembourg, Life Sciences Research Unit – Bioinformatics core facility, 6, avenue du Swing, Belvaux, Luxembourg, [3]Genomics Research Laboratory, Dept. of Oncology, Luxembourg Institute of Health, 84 Val Fleuri,, Luxembourg, Luxembourg

Mo-P11-12

IL-27-inducible novel microRNA, hsa-mir-7705, predominantly elicits IFN-α from human monocyte-derived macrophages in an RNA sequence and structure dependent manner

Taisuke Izumi[1], Deepak Poudyal[2], Jun Yang[1], Xiaojun Hu[3], Marjorie Bosche[1], Qian Chen[2], Whitney Bruchey[1], Rayan G Zamat[1], Brad T Sherman[3], Clifford H Lane[4], Tomozumi Imamichi[1, 2, 3]

[1]Translational Research Section, Laboratory of Human Retrovirology and Immunoinformatics, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research, Frederick, United States, [2]Basic Research Section, Laboratory of Human Retrovirology and Immunoinformatics, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research, Frederick, United States, [3]Bioinformatics Section, Laboratory of Human Retrovirology and Immunoinformatics, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research, Frederick, United States, [4]Laboratory of Immunoregulation, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, United States

Mo-P11-13

Electroporation pDNA encoding IL-10 into mouse bone marrow-derived immature dendritic cells

Julia Khantakova, Vasilii Kurilin, Amir Maksyutov, Sergey Sennikov

Federal State Budgetary Institution "Research Institute of Fundamental and Clinical Immunology", Department of Molecular Immunology, Novosibirsk, Russia

Mo-P11-14

Type I and III IFNs are produced by different cell types *In Vivo*

Marvin Jose Sandoval[1], Hsiang-Chi Tseng[2, 3], Heidi Risman[2], Russell K. Durbin[4], Sergei V Kotenko[4, 5, 6], Joan E. Durbin[2, 5, 6]

[1]Department of Pathology, NYU School of Medicine, New York, United States, [2]Department of Pathology and Laboratory Medicine, Rutgers New Jersey Medical School, Newark, United States, 3Graduate School of Biomedical Sciences, Rutgers-New Jersey Medical School, Newark, United States, [4]Center for Immunity and Inflammation, Rutgers-New Jersey Medical School, Newark, United States, [5]Department of Microbiology, Biochemistry, and Molecular Genetics, Rutgers-New Jersey Medical School, Newark, United States, [6]University Hospital Cancer Center, Rutgers-New Jersey Medical School, Newark, United States

Mo-P11-15

IFN-λ3 induces dendritic cell maturation independently of type I IFN

Kazuhisa Murai[1], Masao Honda[1, 2], Tetsuro Shimakami[2], Takayoshi Shirasaki[1], Shiho Tanaka[1], Shuichi Kaneko[2]

[1]Department of Laboratory medicine, Kanazawa University Graduate School of Health Medicine, Kanazawa, Japan, Kanazawa, Japan, [2]Department of Gastroenterology, Kanazawa University Graduate School of Medicine, Kanazawa, Japan, Kanazawa, Japan

Mo-P11-16

A liver-derived secretory protein, LECT2, enhances the innate immune response and suppresses HCV replication

Takayoshi Shirasaki[1, 2], Masao Honda[1, 2], Kazuhisa Murai[1, 2], Tetsuro Shimakami[1], Hirofumi Misu[1], Toshinari Takamura[1], Shuichi Kaneko[1]

[1]Kanazawa University Graduate School of Medical Sciences, Kanazawa, Japan, [2]Kanazawa University Graduate School of Health Medicine, Kanazawa, Japan

Mo-P11-17

Prevention of lipopolysaccharide-induced preterm labor by the lack of CX3CL1-CX3CR1 interaction

mika mizoguchi[1, 2], yuko ishida[1], mizuho nosaka[1], akihiko kimura[1], tamaki yahata[1, 2], yumi kuninaka[1], sakiko nanjo[2], sawako minami[2], kazuhiko ino[2], naofumi mukaida[3], toshikazu kondo[1]

[1]Department of Forensic Medicine, Wakayama Medical University, wakayama, Japan, [2]Department of Obstetrics and Gynecology, Wakayama Medical University, wakayama, Japan, [3]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, kanazawa, Japan

19：10～21：00

Session：Poster Session 13 “Development and function of Macrophage and DC”

Room: Ishikawa Ongakudō Interchange Hall

Mo-P13-1

Natural amines inhibit activation of human plasmacytoid dendritic cells through CXCR4 engagement

Nikaïa Smith[1, 2], Nicolas Pietrancosta[1], Sophia Davidson[3], Jacques Dutrieux[4], Jan Münch[2], Andreas Wack[3], Sébastien Nisole[5], Jean-Philippe Herbeuval[1]

[1]CNRS-UMR8601 - Team CBMIT - Université Paris Descartes, 45 Rue des Saints Pères, France, [2]Institute of Molecular Virology - Ulm University Medical Center, Ulm, Germany, [3]Immunoregulation Laboratory, Francis Crick Institute, London, United Kingdom, [4]INSERM UMR-S 1124, Université Paris Descartes, Paris, France, [5]Institut de Recherche en Infectiologie de Montpellier (IRIM) CNRS UMR 9004 - Montpellier University, Montpellier, France

Mo-P13-2

Effect of high glucose on human alveolar macrophages phenotype and phagocytosis of mycobacteria

Jorge Cervantes[1], Jesse Vance[1], Laura Sadofsky[2, 3], Alyn Morice[3]

[1]Paul L. Foster School of Medicine, Texas Tech University Health Sciences Center, El Paso, TX, U.S.A., El Paso, United States, [2]School of Biological, Biomedical and Environmental Sciences, University of Hull, Hull, U.K., Hull, United Kingdom, [3]The Hull York Medical School, University of Hull, Hull, U.K., Hull, United Kingdom

Mo-P13-3

Induction of live cell phagocytosis by a specific combination of inflammatory stimuli

Takamasa Ishidome[1, 2], Rikinari Hanayama[1, 2]

[1]Department of Immunologty, Kanazawa University Graduate School of Medicine, Takaramachi, Japan, [2]Laboratory of Immune Network, Immunology Frontier Research Center (IFReC), Osaka University, Yamadaoka, Japan

Mo-P13-4

The recruited CCR2-expressing alveolar macrophages under the guidance of interstitial macrophage-derived CCL2 drive hepatocellular carcinoma lung metastasis by generating leukotriene B_4.

Takuto Nosaka[1, 2], Tomohisa Baba[2], Yamato Tanabe[2], Soichiro Sasaki[2], Makoto Arita[3], Yasunari Nakamoto[1], Naofumi Mukaida[2]

[1]Second Department of Internal Medicine, Faculty of Medical Sciences, Fukui University, Yoshida-gun, Japan, [2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan, [3]Laboratory for Metabolomics, RIKEN Center for Integrative Medical Sciences, Yokohama, Japan

Mo-P13-5

Pirfenidone prevents and reverses lipotoxicity-induced hepatic insulin resistance and steatohepatitis by polarizing M2 macrophages

Guanliang Chen[1], Yinhua Ni[1], Naoto Nagata[1], Liang Xu[1], Mayumi Nagashimada[1], Shuichi Kaneko[1], Tsuguhito Ota[1, 2]

[1]Brain/Liver Interface Medicine Research Center, Kanazawa University, Kanazawa, Japan, [2]Division of Metabolism and Biosystemic Science, Department of Internal Medicine, Asahikawa Medical University, Asahikawa, Japan

Mo-P13-6

Identification of Flt3-ligand producing cells by generating Flt3-ligand mCherry reporter mouse.

Nobuyuki Onai[1, 2], Toshiaki Ohteki[2]

[1]Department of Immunology, Kanazawa Medical University, Ishikawa, Japan, [2]Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

Mo-P13-7

The origin of osteoclasts in pannus in arthritis

Tetsuo Hasegawa[1, 2], Junichi Kikuta[1], Masaru Ishi[1]

[1]Osaka University, Osaka, Japan, [2]Keio University, Tokyo, Japan

Mo-P13-8

Spred-2 protects mice from ConA-induced liver injury

Cuiming Sun, Teizo Yoshimura, Masatoshi Fujisawa, Toshiaki Ohara, Xu Yang, Akihiro Matsukawa

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

Mo-P13-9

Identification of a functional and transcriptional signature for tumor-infiltrating dendritic cells in mouse

Satoshi Ueha[1], Haru Ogiwara[1], Shigeyuki Shichino[1], Jun Abe[1, 2], Francis HW Shand[1], Shinichi Hashimoto[1, 3], Kouji Matsuhsima[1]

[1]Department of Molecular Preventive Medicine, The University of Tokyo, Tokyo, Japan, [2]Theodor Kocher Institute, University of Bern, Bern, Switzerland, [3]Department of Laboratory Medicine, Kanazawa University, Kanazawa, Japan

Mo-P13-10

CLEC5A is a critical receptor in innate immunity against bacteria infection

Szu-Ting Chen[1], Fei-Ju Li[1], Shie-Liang Hsieh[2]

[1]National Ynag-Ming University, Taipei, Taiwan, [2]Acdemia Sinica, Taipei, Taiwan

Mo-P13-11

Monocyte maturation stage determines preferential recruitment to solid tumors in mice

Francis HW Shand[1], Suang S Koid[1, 2], Satoshi Ueha[1], Kouji Matsushima[1]

[1]Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Clinical Laboratory, The University of Tokyo Hospital, Tokyo, Japan

Mo-P13-12

Cohesive transcriptional regulation plays critical role in $CD4^+$ dendritic cell development

Prafullakumar Tailor[1], Irene Saha[1], Hemant Jaiswal[1], Jaring Schreuder[2], Monika kaushik[1], Shalin Naik[2], Kuldeep Singh Chauhan[1]

[1]Laboratory of Innate Immunity, National Institute of Immunology (NII), New Delhi, India, [2]Molecular Medicine Division, Walter and Eliza Hall Institute of Medical Research (WEHI), Parkville, Australia

Mo-P13-13

Immunization induces migration of MHC class II intermediate dendritic cells from immunized sites to draining lymph nodes.

Taiki Moriya[1], Ryoyo Ikebuchi[1, 2], Mizuki Ueda[1], Yutaka Kusumoto[1], Michio Tomura[1]

[1]Laboratory of Immunology, Faculty of Pharmacy, Osaka Ohtani University, Osaka, Japan, [2]Research Fellow of Japan Society for the Promotion of Science, Tokyo, Japan

Mo-P13-14

IFN-α inducible dendritic cells matured with OK-432 exhibit professional antigen-presentation and anti-tumor activity

Terutsugu Koya[1], Shigetaka Shimodaira[1, 2]

[1]Department of Regenerative Medicine, Kanazawa Medical University, Uchinada, Japan, [2]Center for Advanced Cell Therapy, Shinshu University Hospital, Matsumoto, Japan

Mo-P13-15

Blimp-1 is required for IFN-I production in plasmacytoid dendritic cells

Kuo-I Lin, Yi-An Ko

Genomics Research Center, Academia Sinica, Taipei, Taiwan

Mo-P13-16

Increased expression of BAFF receptor on monocytes is a contributory factor of IgG overproduction in patients with primary Sjögren's syndrome.

Keiko Yoshimoto, Katsuya Suzuki, Tsutomu Takeuchi

Keio University School of Medicine, Tokyo, Japan

Mo-P13-17

Involvement of Hexokinase 2 in autophagy dependent monocyte differentiation

Ellora SEN, Ankita Singh

National Brain Research Centre, Manesar, India

Mo-P13-18

Serum CC-chemokine ligand 18 level reflects disease activity, but not allergic manifestations of IgG4-related disease

Mitsuhiro Akiyama, Hidekata Yasuoka, Keiko Yoshimoto, Tsutomu Takeuchi

Division of Rheumatology, Department of Internal Medicine, Keio University School of Medicine, Tokyo, Japan, Tokyo, Japan

Mo-P13-19

Unique and Overlapping Actions of Type I and III IFNs in Influenza A Virus Infection and Implications for Therapy.

Sophia Davidson[1, 2], Teresa M McCabe[2], Stefania Crotta[2], Hans Henrik Gad[3], Rune Hartmann[3], Edith M Hessel[4], Soren Beinke[4], Andreas Wack[2]

[1]Division of Inflammation, The Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, [2]Immunoregulation Laboratory, Francis Crick Institute, London, United Kingdom, [3]Department of Molecular Biology and Genetics, Aarhus University, Aarhus, Denmark, [4]Refractory Respiratory Inflammation Discovery Performance Unit, Respiratory Therapy Area, GSK, Stevenage, United Kingdom

Mo-P13-20

Change in intestinal macrophages subset expressing α7nACh receptor during inflammation

Taiki Mihara, Juri Nakashima, Noriyuki Kaji, Hiroshi Ozaki, Masatoshi Hori

Department of Veterinary Pharmacology, Graduate School of Agriculture and Life Sciences, The University of Tokyo, Tokyo, Japan

Mo-P13-21

Prognostic value of diametrically polarized tumor-associated macrophages in multiple myeloma

Xinyi Chen[1], Jin Chen[2], Wenyan Zhang[3], Ruixue Sun[1], Ting Liu[1], Yuhuan Zheng[1], Yu Wu[1]

[1]Department of Hematology and Hematology Research Laboratory, West China Hospital, Sichuan University, 37# Guoxue Xiang, 610041, Chengdu, Sichuan Province, China., Chengdu, China,
[2]Department of Rheumatology and Immunology, West China Hospital, Sichuan University, Chengdu, China,
[3]Department of Pathology, West China Hospital, Sichuan University, Chengdu, China

Mo-P13-22

CD11b^{+}Gr1^{dim} Tolerogenic Dendritic Cell-like Cells are Expanded in Interstitial Lung Disease in SKG Mice

Sho Sendo, Jun Saegusa, Hirotaka Yamada, Yoshihide Ichise, Ikuko Naka, Takaichi Okano, Soshi Takahashi, Yo Ueda, Kengo Akashi, Akio Morinobu

Department of Internal Medicine, Kobe University Graduate School of Medicine, Kobe City, Japan

Mo-P13-23

Regulation of inflammatory cytokine expression and osteoclastgenesis by gap junctional protein in vitro and in vivo.

Seiji Shimomura[1], Shinji Tsuchida[1], Yuji Arai[2], Shuji Nakagawa[2], Hiroaki Inoue[1], Shohei Ichimaru[1], Yuta Fujii[1], Osam Mazda[3], Toshikazu Kubo[1]

[1]Department of Orthopaedics, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, [2]1) Department of Sports and Para-Sports Medicine, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan, [3]Department of Immunology, Graduate School of Medical Science, Kyoto Prefectural University of Medicine, Kyoto, Japan

Mo-P13-24

Role of scavenger receptors as damage-associated molecular pattern receptors in Toll-like receptor activation

Kyoko Komai, Akihiko Yoshimura

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

Mo-P13-25

Folate deficiency or leptin may exacerbate the inflammatory activity of LPS-induced RAW264.7 macrophages

Chun-Wai Chan, Bi-Fong Lin

Department of Biochemical Science and Technology, College of Life Science, National Taiwan University, Taipei, Taiwan

Mo-P13-26

Absence of CCR5 axis inhibits thrombus resolution through reduced uPA, tPA and VEGF expression in murine DVT model

Mizuho Nosaka[1], Yuko Ishida[1], Akihiko Kimura[1], Hiroki Yamamoto[1], Yumi Kuninaka[1], Emi Shimada[1], Naofumi Mukaida[2], Toshikazu Kondo[1]

[1]Department of Forensic Medicine, Wakayama Medical University, Wakayama, Japan,
[2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

Mo-P13-27

Characteristics and functional regulation of dendritic cells in hepatitis B patients

Atsushi Yonejima, Eishiro Mizukoshi, Noriho Iida, Masaaki Kitahara, Masao Honda, Shuichi Kaneko

Department of Gastroenterology, Kanazawa University Hospital, Kanazawa, Japan

Mo-P13-28

The absence of CCL3 exaggerated $CaCl_2$-induced aortic aneurysm

yuko ishida[1], yumi kuninaka[1], mizuho nosaka[1], akihiko kimura[1], naofumi mukaida[2], toshikazu kondo[1]

[1]department of forensic medicine, wakayama medical university, wakayama, Japan,
[2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, kanazawa, Japan

Mo-P13-29

JAK/STAT guarantees robust differentiation of neural stem cells by shutting off biological noises in the developing fly brain

Makoto Sato[1], Tetsuo Yasugi[1], Yoshitaro Tanaka[2], Masaharu Nagayama[2], Shin-Ichiro Ei[2]

[1]Kanazawa University, Kanazawa, Japan, [2]Hokkaido University, Sapporo, Japan

Mo-P13-30

Structural characterization of the chemokine receptor-binding protein, R1-15

Hiroko Takasaki[1], Sosuke Yoshinaga[1], Soichiro Ezaki[1], Mitsuhiro Takeda[1], Yuya Terashima[2], Etsuko Toda[2], Kouji Matsushima[2], Hiroaki Terasawa[1]

[1]Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan,
[2]Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

Mo-P13-31

CD206 positive intestinal macrophages contribute to the colonic epithelial wound healing

Shusaku Hayashi[1], Mizuki Sendo[1], Ai Hertati[1], Kazuyuki Tobe[2], Makoto Kadowaki[1]

[1]Division of Gastrointestinal Pathophysiology, Institute of Natural Medicine, University of Toyama, Toyama, Japan,
[2]First Department of Internal Medicine, Graduate School of Medicine and Pharmaceutical Sciences for Research, University of Toyama, Toyama, Japan

Mo-P13-32

Phenotypic conversion of the colon CD169^{+} macrophages by c-Maf.

Kenta Kikuchi, Masato Tanaka, Kenichi Asano

Laboratory of Immune Regulation, The School of Life Sciences, Tokyo University of Pharmacy and Life Sciences, Tokyo, Japan

Mo-P13-33

IL-6 contributes to the interaction between enteric nervous system and mucosal immune system.

Hanako Ogata, Makoto Kadowaki, Takeshi Yamamoto

Division of Gastrointestinal Pathophysiology, Institute of Natural Medicine, University of Toyama, Toyama, Japan

19：10～21：00

Session：Poster Session 15 “Innate cells including ILC, NK, mast cell and γδT cells”

Room: Ishikawa Ongakudō Interchange Hall

Mo-P15-2

Restoration of NK cell function against multiple myeloma cells by an adjunctive effect of activated invariant natural killer T (NKT) cells

Tomonori Iyoda[1], Satoru Yamasaki[1], Michihiro Hidaka[2], Fumio Kawano[2], Yu Abe[3], Kenshi Suzuki[3], Norimitsu Kadowaki[4], Kanako Shimizu[1], Shin-ichiro Fujii[1]

[1]RIKEN, Center for Integrative Medical Sciences, Laboratory for Immunotherapy, Yokohama, Japan,
[2]National Hospital Organization Kumamonoto Medical Center, Clinical laboratry, Kumamoto, Japan,
[3]Japanese Red Cross Medical Center,Department of hematology, Tokyo, Japan,
[4]Kagawa University, Department of Internal Medicine, Kitagun, Japan

Mo-P15-3

Deciphering lineage-specific TCR signaling in IL-17-producing γδT cell development

Ryunosuke Muro[1, 2], Takeshi Nitta[1], Harumi Suzuki[2], Hiroshi Takayanagi[1]

[1]Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Immunology and Pathology, National Center for Global Health and Medicine, Chiba, Japan

Mo-P15-4

Expanded Natural Killer (NK) Cells: Immunotherapeutics against Aspergillosis

Win Mar Soe[1, 3], Masaru Imamura[2], Joan Lim[1], Sally M. H Chai[2], Jessamine Goh[1], Zhaohong Tan[1], Qi Hui Sam[1], Sharada Ravikumar[1], Dario Campana[2], Louis Yi Ann Chai[1, 3, 4]

[1]Division of Infectious Diseases, University Medicine Cluster, National University Health System, Singapore, Singapore, Singapore, [2]Department of Pediatrics, National University of Singapore, Singapore, Singapore, Singapore, [3]Department of Haematology-Oncology, National University Cancer Institute of Singapore, National University Health System, Singapore, Singapore, Singapore, [4]Department of Medicine, Yong Loo Lin School of Medicine, National University of Singapore, Singapore, Singapore, Singapore

Mo-P15-5

Measurement of secreted granzymes after stimulation of phytohemagglutinin and PROMOCA™ in whole blood

Kyeong-Hee Kim[1], Ri-Young Goh[1], Gyu-Dae An[1], Hyeon-Ho Lim[1], Min-Chan Kim[2], Sang Yeob Lee[3]

[1]Dong-A University, School of Medicine Department of Laboratory Medicine, Busan, Korea, Republic of (South), [2]Dong-A University, School of Medicine Department of Surgery, Busan, Korea, Republic of (South), [3]Dong-A University, School of Medicine Department of Rheumatology, Busan, Korea, Republic of (South)

Mo-P15-6

Anti-metastatic effect of immunomodulatory drugs (IMiDs) through the regulation of NK cell homeostasis

Kiho Miyazato[1], Hideaki Tahara[2], Yoshihiro Hayakawa[1]

[1]Division of Pathogenic Biochemistry, Department of Bioscience, Institute of Natural Medicine, University of Toyama, Toyama, Japan, [2]Department of Surgery and Bioengineering, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan

Mo-P15-7

Type 2 innate lymphoid cells exacerbate severe amebic liver abscess in mice

Risa Nakamura[1, 2], Sharmina Deloer[1, 2], Kazuyo Moro[3], Shinjiro Hamano[1, 2]

[1]Department of Parasitology, NEKKEN, Nagasaki University, Nagasaki, Japan, [2]Nagasaki University Graduate School of Biomedical Sciences Doctoral Leadership Program, Nagasaki, Japan, [3]Laboratory for Immune Cell Systems, RIKEN IMS, Yokohama, Japan

Mo-P15-8

Identification of an essential epigenetic regulator of early iNKT cell development

Maia Inoue[1], Kazuo Okamoto[1], Tomoki Nakashima[2], Hiroshi Takayanagi[1]

[1]Department of Immunology, Graduate School of Medicine and Faculty of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Cell Signaling, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan

Mo-P15-9

Interluekin-15-priming generates innate lymphoid cell-1-like phenotype during dendritic cell differentiation and these cells contribute to control *Mycobacterium tuberculosis* infection

Kee Woong Kwon, So Jeong Kim, Hongmin Kim, Woo Sik Kim, Sung Jae Shin

Department of Microbiology, Institute for Immunology and Immunological Disease, Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, Republic of (South)

Mo-P15-10

The regulatory effects of Hirsutella sinensis mycelium on cytokine production and cellular immunity in murine model

Miaw-Ling Chen[1], Chi-Hsing Yu[2], Yu-Lun Tsai[3], Wei-Jen Chen[4]

[1]Miaw-Ling Chen, Tainan City, Taiwan, [2]Chi-Hsing Yu, Tainan City, Taiwan, [3]Yu-Lun Tsai, Tainan City, Taiwan, [4]Wei-Jen Chen, Tainan City, Taiwan

Poster sessions

Tuesday, 31 October 2017

19：10～21：00

Session：Poster Session 2 “Allergic disease”

Room: Ishikawa Ongakudō Interchange Hall

Tu-P2-1

ILC2-activation exacerbates nasal type 2 inflammation in mice

Taiyo Morikawa[1, 2], Ayumi Fukuoka[3], Kazufumi Matsushita[1], Shigeharu Fujieda[2], Tomohiro Yoshimoto[1, 3]

[1]Laboratory of Allergic Diseases, Institute for Advanced Medical Sciences, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan, [2]Department of Otorhinolaryngology-Head and Neck Surgery, Faculty of Medical Science, University of Fukui, Fukui, Japan, [3]Department of Immunology, Hyogo College of Medicine, Nishinomiya, Hyogo, Japan

Tu-P2-2

Epithelial TRAF6 signaling initiates and propagates interleukin-17-mediated inflammation

Reiko Matsumoto, Teruki Dainichi, Kenji Kabashima

Department of Dermatology, Kyoto University Graduate School of Medicine, Kyoto, Japan

Tu-P2-4

Regulatory role of a lysosome-resident oligopeptide transporter SLC15A4 in the inflammatory responses of mast cells

Toshihiko Kobayashi, Hidemitsu Tsutsui, Daisuke Ohshima, Noriko Toyama-Sorimachi

Department of Molecular Immunology & Inflammation Research, Research Institute, National Center for Global Health & Medicine, Tokyo, Japan

Tu-P2-5

Bilirubin nanoparticles ameliorate allergic lung inflammation in a mouse model of asthma

Dong Eon Kim, Yonghyun Lee, MinGyo Kim, Soyoung Lee, Sangyong Jon, Seung-Hyo Lee

Korea Advanced Institute of Science and Technology, Daejeon, Korea, Republic of (South)

Tu-P2-6

Hyper-responsiveness to TLR-4 stimulation in SLE: Association with high levels of serum IFN-alpha and a distinct inflammatory cytokine profile

Uma Thanarajasingam[2], Mark A. Jensen[1], Jessica M. Dorschner[2], Danielle M. Vsetecka[2], Shreyasee Amin[2], Ashima Makol[2], Floranne Ernste[2], Thomas Osborn[2], Kevin Moder[2], Vaidehi Chowdhary[2], Timothy B. Niewold[1]

[1]New York University Colton Center for Autoimmunity, New York, United States, [2]Mayo Clinic Division of Rheumatology, Rochester, United States

Tu-P2-7

The role of Tfh cells, DCs and iBALT formations in inhaled fine particle-induced allergic inflammation in the lungs.

Etsushi Kuroda[1, 2], Ken J Ishii[1, 2]

[1]Center for Vaccine and Adjuvant Research (CVAR), National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), Ibaraki, Japan, [2]WPI Immunology Frontier Research Center (iFReC), Osaka University, Suita, Japan

Tu-P2-8

House dust mite increases pro-Th2 cytokines, IL-25 and IL-33 via the activation of TLR1/6 signaling

Sang-Hyun Kim[1], Yong Hyun Jang[2]

[1]Department of Pharmacology, Kyungpook Natioinal University Medical School, Daegu, Korea, Republic of (South), [2]Department of Dermatology, Kyungpook Natioinal University Medical School, Daegu, Korea, Republic of (South)

Tu-P2-9

IL-25 could be involved in the development of allergic rhinitis sensitized to house dust mite

Dae Woo Kim[1], Dong-Kyu Kim[2], Yong Min Kim[3], Ji-Hun Mo[4]

[1]Boramae Medical Center, Seoul National University College of Medicine, Seoul, Korea, Republic of (South), [2]Sacred Heart Hospital, Hallym University College of Medicine, Chuncheon, Korea, Republic of (South), [3]Chungnam National University School of Medicine, Daejeon, Korea, Republic of (South), [4]Dankook University College of Medicine, Cheonan, Korea, Republic of (South)

Tu-P2-10

Increased serum IL-17A and Th2 cytokines in severe uncontrolled asthma

Takehiro Hasegawa[1, 2], Hitoshi Uga[1], Akio Mori[3], Hirokazu Kurata[1]

[1]Sysmex Corporation, Kobe, Japan, [2]Division of System Biology of Disease, Department of Internal Related, Kobe University Graduate School of Medicine, Kobe, Japan, [3]Clinical Research Center for Allergy and Rheumatology, Sagamihara National Hospital, Sagamihara, Japan

Tu-P2-11

Indeno[1,2,3-cd]pyrene, a common environmental polycyclic aromatic hydrocarbon, enhances allergic lung inflammation via aryl hydrocarbon receptor

Tzu-Hsuan Wong[1], Chon-Lin Lee[2], Hsiang-Han Su[1], Shau-Ku Huang[3], Jau-Ling Suen[1]

[1]Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, [2]Department of Marine Environment and Engineering, National Sun Yat-sen University, Kaohsiung, Taiwan, [3]National Institute of Environmental Health Sciences, National Health Research Institutes, Miaoli, Taiwan

Tu-P2-12

Basophil-specific protease mMCP-8 induces cutaneous inflammation accompanied by chemokine-mediated leukocyte infiltration

Hidemitsu Tsutsui[1], Yoshinori Yamanishi[2], Hiromi Ohtsuka[2], Shingo Sato[2], Soichiro Yoshikawa[2], Hajime Karasuyama[2]

[1]National Center for Global Health and Medicine, Research Institute, Department of Molecular Immunology and Inflammation, Tokyo, Japan,
[2]Tokyo Medical and Dental University (TMDU), Department of Immune Regulation, Tokyo, Japan

Tu-P2-13

Th2 and Th9 cells induce airway eosinophilic inflammation by distinct mechanisms.

Mayumi Saeki[1], Osamu Kaminuma[1, 2, 3], Tomoe Nishimura[1], Noriko Kitamura[1], Akio Mori[1, 3], Takachika Hiroi[1]

[1]Pollen Allergy Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, [2]Center for Life Science Research, University of Yamanashi, Yamanashi, Japan, [3]Clinical Research Center for Allergy and Rheumatology, National Hospital Organization, Sagamihara National Hospital, Kanagawa, Japan

Tu-P2-14

Dichloroacetate, an inhibitor of aerobic glycolysis, ameliorates neutrophilic airway inflammation through suppressing Th17 population and inducing regulatory T cell population

Jaechan Leem[1, 3], Sujeong Kim[2], Han-Ki Park[2], Hoyul Lee[3], Eun Soo Kim[2], Jae-Han Jeon[2, 3], In-Kyu Lee[2, 3]

[1]Department of Immunology, Catholic University of Daegu School of Medicine, Daegu, Korea, Republic of (South), [2]Department of Internal Medicine, Kyungpook National University School of Medicine, Daegu, Korea, Republic of (South), [3]Leading-edge Research Center for Drug Discovery and Development for Diabetes and Metabolic Disease, Kyungpook National University Hospital, Daegu, Korea, Republic of (South)

Tu-P2-15

IK cytokine alleviates allergic dermatitis-like skin lesions in mice

Sang-Myeong Lee, JeHee Son

Division of Biotechnology, College of Evironmental & Bioresources Science, Chonbuk National University, Iksan-si,, Korea, Republic of (South)

Tu-P2-16

Toll-like receptor 2 ligation of mesenchymal stem cells alleviates asthmatic airway inflammation

Hui Chieh Yu, Bor Luen Chiang

Graduate Institute of Clinical Medicine, National Taiwan University, Taipei City, Taiwan

Tu-P2-17

Studies on the mechanisms of self-renewal and immune regulatory mechanism of SSEA-1+ pulmonary stem/progenitor cells

Chien Chia Liao[1], Bor Luen Chiang[1, 2], Chiao Jung Chiu[1]

[1]Graduate Institute of Immunology, School of Medicine, National Taiwan University, Taipei, Taiwan, [2]Graduate Institute of Immunology, College of Medicine, National Taiwan University, Taipei, Taiwan

Tu-P2-18

Influence of environmental tobacco smoke on murine models of allergic nasal inflammation

Tomoe Nishimura[1], Osamu Kaminuma[1, 2, 3], Mayumi Saeki[1], Noriko Kitamura[1], Akio Mori[2], Takachika Hiroi[1]

[1]Allergy and Immunology Project, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, [2]Clinical Research Center for Allergy and Rheumatology, National Hospital Organization, Kanagawa, Japan, [3]Center for Life Science Research, University of Yamanashi, Yamanashi, Japan

Tu-P2-19

Studies on molecular mechanisms and development of a novel stem cell therapeutic strategy to target Atopic dermatitis

Hyun Seung Yoo[1, 3], Kwangmin Na[1, 2], Myung-Shin Jeon[1, 2, 3]

[1]Translational Research Center Inha University Hospital, Incheon, Korea, Republic of (South), [2]IRIMS, Incheon, Korea, Republic of (South), [3]Department of Molecular Biomedicine INHA University School of Medicine, Incheon, Korea, Republic of (South)

19：10～21：00

Session：Poster Session 4 "Regulation of cytokine production"

Room: Ishikawa Ongakudō Interchange Hall

Tu-P4-1

IL-15/IL-15Rα complex controls the HSV-induced inflammation in a mouse model

Seonghyang Sohn[1, 2], S M Shamsul Islam[2], Bunsoon Choi[1], Juyoung Choi[2], Eun-So Lee[3]

[1]Department of Microbiology, Ajou University School of medicine, Suwon, Korea, Republic of (South), [2]Department of Biomedical Science, Ajou University, Suwon, Korea, Republic of (South), [3]Department of Dermatology, Ajou University, Suwon, Korea, Republic of (South)

Tu-P4-2

Spred-2 deficiency exacerbates lipopolysaccharide (LPS)/D-galactosamine (D-GalN) induced acute liver injury

Yang Xu, Teizo Yoshimura, Masayoshi Fujisawa, Toshiaki Ohara, Cuiming Sun, Akihiro Matsukawa

Department of Pathology and Experimental science, Okayama University, Okayama, Japan

Tu-P4-3

A Novel E3 ligase ZNRF1 regulates Toll-Like Receptor 4 Response

Ting Yu Lai[1], Chih-Yuan Lee[1, 2], I-Shing Yu[3], Li-Chung Hsu[1]

[1]Institute of Molecular Medicine College of Medicine, National Taiwan University, Taipei, Taiwan, [2]Department of Surgery, National Taiwan University Hospital, Taipei, Taiwan, [3]Laboratory Animal Center, College of Medicine, National Taiwan University, Taipei, Taiwan

Tu-P4-4

Transcytosis of Interleukin (IL-)11 and apical redirection of gp130 is mediated by IL-11a-receptor

Jürgen Scheller, Niloufar Monhasery

Institute of Biochemistry and Molecular Biology II, Medical Faculty, Heinrich-Heine University, 40225 Düsseldorf, Germany, Düsseldorf, Germany

Tu-P4-5

Dysfunction of Microglial STAT3 Alleviates Depressive Behavior via Neuron–Microglia Interactions

Sun-Ho Kwon[1], Jeong-Kyu Han[2], Moonseok Choi[1], Yong-Jin Kwon[1], Sung Joon Kim[2], Eun Hee Yi[1], Jae-Cheon Shin[3], Ik-Hyun Cho[4], Byung-Hak Kim[1], Sang Jeong Kim[2], Sang-Kyu Ye[1]

[1]Department of Pharmacology, Seoul National University College of Medicine, Seoul, Korea, Republic of (South), [2]Department of Physiology, Seoul National University College of Medicine, Seoul, Korea, Republic of (South), [3]Pohang Center for Evaluation of Biomaterials, Pohang, Korea, Republic of (South), [4]Department of Convergence Medical Science, College of Oriental Medicine, Kyung Hee University, Seoul, Korea, Republic of (South)

Tu-P4-6

Lung fibroblasts express miR-19a,19b,20a cluster to suppress transforming growth factor-β-associated fibroblast activation in murine pulmonary fibrosis

Kunihiko Soma[1, 2], Shigeyuki Shichino[1, 2], Shin-ichi Hashimoto[1, 2], Hiroshi I Suzuki[3], Satoshi Ueha[1, 2], Kouji Matsushima[1, 2]

[1]Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2]Core Research for Evolutional Science and Technology (CREST), Advanced Research & Development Programs for Medical Innovation, Tokyo, Japan, [3]David H. Koch Institute for Integrative Cancer Research, Massachusetts Institute of Technology, MA, United States

Tu-P4-7

The IFN response in the bat *Pteropus alecto* consists of canonical and non-canonical ISGs with distinct temporal expression patterns

Pamela C De La Cruz-Rivera[1], Mohammed Kanchwala[2], Hanquan Liang[2], Ashwani Kumar[2], Linfa Wang[3], Chao Xing[2], John W Schoggins[1]

[1]Department of Microbiology, UT Southwestern Medical Center, Dallas, United States, [2]Department of Bioinformatics, UT Southwestern Medical Center, Dallas, United States, [3]Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore, Singapore

Tu-P4-8

Role of TRAF7 in the Regulation of Type I IFN Antiviral Response

Rongtuan Lin, Yiliu Liu, Marie-Line Goulet

Lady Davis Institute-Jewish General Hospital, McGill University, Montreal, Canada

Tu-P4-9

Selected TLR7 agonist and IFN-α cytokine synergistically modulates gene expression of defense responses in microglia cells

Sarder Arifuzzaman[1], Amitabh Das[2], Kyoung Hwa Jung[2], Young Gyu Chai[1, 3]

[1]Department of Bionanotechnology, Hanyang University, Ansan, 15588, Korea, Republic of (South), [2]Institute of Natural Science & Technology, Hanyang University, Ansan, 15588, Korea, Republic of (South), [3]Department of Molecular & Life Science, Hanyang University, Ansan, 15588, Korea, Republic of (South)

Tu-P4-10

Effect of nitric oxide-releasing derivative of indomethacin on *Prevotella intermedia* lipopolysaccharide-induced production of proinflammatory mediators in murine macrophages

Sung-Jo Kim[1], In Soon Choi[2], Eun-Young Choi[2], So-Hui Choe[2], Jin-Yi Hyeon[2]

[1]Department of Periodontology, School of Dentistry, Pusan National University, Gyeongsangnam-do, Korea, Republic of (South), [2]Department of Biological Science, College of Medical and Life Sciences, Silla University, Busan, Korea, Republic of (South)

Tu-P4-11

Toll-like Receptor-10 is a novel regulator of immune responses in human plasmacytoid dendritic cells

Praik Deb[1, 2], Nicholas James Hess[4], Sukhwinder Singh[1, 3], Richard Tapping[4, 5], Patricia Fitzgerald-Bocarsly[1, 2, 3]

[1]Rutgers Biomedical and Health Sciences,, Newark, United States, [2]Rutgers School of Graduate Studies, Newark, United States, [3]Department of Pathology and Laboratory Medicine, New Jersey Medical School, Newark, United States, [4]Dept. of Microbiology, University of Illinois, Urbana-Champaign, United States, [5]College of Medicine, University of Illinois, Urbana-Champaign, United States

Tu-P4-12

Peritoneal mesothelial cell migration and myofibroblast differentiation are dependent on LPA- LPA_1

Norihiko Sakai, Taito Miyake, Koichi Sato, Akihiro Sagara, Shinji Kitajima, Tadashi Toyama, Yasunori Iwata, Miho Shimizu, Kengo Furuichi, Takashi Wada

Division of Nephrology, Kanazawa University, Kanazawa, Japan

Tu-P4-13

A novel terminal uridyltransferase regulates TLR4-driven IL-6 production via modulation of Regnase-1 mRNA stability

Chia-Ching Lin[1], Yi-Ru Shen[2], Chi-Chih Chang[3], Li-Chung Hsu[4]

[1]Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, [2]Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, [3]Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan, [4]Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taipei, Taiwan

Tu-P4-14

siRNA with a unique 5-nt motif potently suppresses IFI16-mediated innate immune response to intracellular DNA

Hongyan Sui[1], Xiaojun Hu[1], Brad T. Sherman[1], H. Clifford Lane[2], Tomozumi Imamichi[1]

[1]Laboratory of Human Retrovirology and Immunoinformatics, Leidos Biochemical Research, Inc., Frederick National Laboratory for Cancer Research, Frederick, United States, [2]National Institute of Allergy and Infectious Diseases, NIH, Bethesda, United States

Tu-P4-15

Identification of endogenous nucleic acid as a cause of inflammation and potential therapeutic target of inflammatory diseases

Hideo Negishi[1], Nobuyasu Endo[1], Yuki Nakajima[1], Tatsuaki Nishiyama[2], Junko Nishio[1], Takeshi Doi[2], Tadatsugu Taniguchi[1]

[1]Department of Molecular Immunology, Institute of Industrial Science, The University of Tokyo, Tokyo, Japan, [2]Toky o?New?Drug?Research?Laboratories Kowa Company, LTD., Tokyo, Japan

Tu-P4-16

The role of Blimp-1 in the differentiation and function of regulatory B cells

Ying-Hsiu Wang[1, 2], Dong-Yen Tsai[1], I-Ying Lin[1], Kuo-I Lin[1]

[1]Genomics Research Center, Academia Sinica, Taipei, Taiwan, [2]Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan

Tu-P4-17

Advanced glycation end product-3 (AGE-3) inhibits osteoclast differentiation via down-regulation of RANK and up-regulation of IL-10

Kenichi Tanaka, Kaoru Yamagata, Satoshi Kubo, Shingo Nakayamada, Yosuke Okada, Yoshiya Tanaka

First Department of Internal Medicine, School of Medicine, University of Occupational and Environmental Health, Kitakyushu, Japan

Tu-P4-18

IL-9 regulates recall responses by memory B cells

Shogo Takatsuka[1, 2], Hiroyuki Yamada[2], Hiroshi Saruwatari[2], Yoshitsugu Miyazaki[1], Yuki Kinjo[1], Daisuke Kitamura[2]

[1]National Institute of Infectious Diseases, Tokyo, Japan, [2]Tokyo university of science, Chiba, Japan

Tu-P4-19

Study on the factors that may affect cytokine secretions in cultured kidney cells

Bai-Chia Liu, Bi-Fong Lin

Department of Biochemical Science and Technology, College of Life Science, National Taiwan University, Taipei, Taiwan

Tu-P4-20

Characterization of the cytokines secretion by mouse mesangial cell line MES-13 and primary murine tubular epithelial cells

Yu-Ting Chen, Bi-Fong Lin

Department of Biochemical Science and Technology, College of Life Science, National Taiwan University, Taipei, Taiwan

Tu-P4-21

Characterization of IFNL4 promoters from different species

Hao Zhou, Ewa Terczyńska-Dyla, Michelle Møhlenberg, Hans Henrik Gad, Rune Hartmann

Department of Molecular Biology and Genetics, Aarhus University, Aarhus. Denmark., Aarhus, Denmark

Tu-P4-22

Activation of glycogen synthase kinase-3β regulates cytokine production in TPA/ionomycin-activated human CD4(+) T lymphocytes

Chia-Ling Chen[1], Cheng-Chieh Tsai[2], Po-Chun Tseng[3], Chiou-Feng Lin[3, 4]

[1]Translational Research Center, Taipei Medical University, Taipei, Taiwan, [2]Department of Nursing, Chung Hwa University of Medical Technology, Tainan, Taiwan, [3]Department of Microbiology and Immunology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan, [4]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan

Tu-P4-23

Cytokine macrophage migration inhibitory factor (MIF) facilitates cisplatin-induced acute kidney injury

Cheng-Chieh Tsai[1], Chia-Ling Chen[2], Po-Chun Tseng[3], Chiou-Feng Lin[3, 4]

[1]Department of Nursing, College of Medicine and Life Science, Chung Hwa University of Medical Technology, Tainan, Taiwan, [2]Translational Research Center, Taipei Medical University, Taipei, Taiwan, [3]Department of Microbiology and Immunology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan, [4]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan

Tu-P4-24

Ebolavirus Protein VP24 Interferes with Innate Immune Responses by Inhibiting Interferon gene expression

Felix B He[1], Krister Melen[1, 2], Sari Maljanen[1], Rickard Lundberg[1], Miao Jiang[2], Pamela Österlund[2], Laura Kakkola[1], Ilkka Julkunen[1]

[1]Institute of Biomedicine/virology, University of Turku, Turku, Finland, [2]Expert Microbiology Unit, National Institute of Health and Welfare, Helsinki, Finland

Tu-P4-25

The Regulation of Type I IFN Induction by The Serine Protease Hepsin

Fu Hsin[1], Shuwha Lin[2], Helene Liu[1]

[1]Department of Biochemistry and Molecular Biology, National Taiwan University, Taipei, Taiwan, [2]Department of Clinical Laboratory Sciences and Medical Biotechnology, National Taiwan University, Taipei, Taiwan

Tu-P4-26

E74-like factor 3 (ELF3) is synergistically regulated by IL-17A and TNF and controls the production of inflammatory cytokines and matrix metalloproteinases in synovial fibroblasts

Vesa-Petteri Kouri[1], Juri Olkkonen[1], Nitai Peled[1], Mari Ainola[1], Kari Eklund[1, 2, 3], Dan Nordstrom[1, 2], Jami Mandelin[1]

[1]University of Helsinki, Helsinki, Finland, [2]Helsinki University Hospital, Helsinki, Finland, [3]ORTON Orthopaedic Hospital of the Invalid Foundation, Helsinki, Finland

Tu-P4-27

Cell-surface levels of IL-6R and gp130 are differentially controlled by endocytosis and recycling in dependence upon IL-6

Charlotte Margaret Joan Flynn, Tina Daunke, Birte Kespohl, Stefan Rose-John, Christoph Garbers, Samadhi Aparicio-Siegmund

Institute of Biochemistry Kiel University, Kiel, Germany

Tu-P4-28

Involvement of poly-rC binding proteins in posttranscriptional regulation of Sortilin, the cytokine trafficking mediator

Toshiki Yabe-Wada[1, 2], Shintaro Matsuba[1], Kazuya Takeda[1], Akira Nakamura[1], Caroline C Philpott[2], Nobuyuki Onai[1]

[1]Kanazawa Medical University, Uchinada, Japan, [2]National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, United States

Tu-P4-29

A lipoprotein LprG of *Mycobacterium tuberculosis* generates IL-10-producing tolerogenic plasmacytoid dendritic cells during differentiation

Hongmin Kim, Kee Woong Kwon, Woo Sik Kim, Sung Jae Shin

Department of Microbiology, Institute for Immunology and Immunological Diseases, Brain Korea 21 PLUS Project for Medical Science, Yonsei University College of Medicine, Seoul 120-752, South Korea, Seoul, Korea, Republic of (South)

Tu-P4-30

The quantity of initial FcRγ signaling determines cytokine profile in dendritic cells

Miyuki Watanabe[1, 2], Sho Yamasaki[1, 2]

[1]Department of Molecular Immunology, Research Institute for Microbial Diseases, Osaka University, Suita, Japan, [2]Division of Molecular Immunology, Medical Institute of Bioregulation, Kyushu University, Fukuoka, Japan

Tu-P4-31

Hypoxia up-regulates IL-4/IL-13-induced arginase-1 expression in mouse macrophages

Miki Hiroi

Division of Microbiology and Immunology Departments of Oral Biology and Tissue Engineering Meikai University School of Dentistry, Sakado, Japan

Tu-P4-32

A link between *IRF5* genetic variants and onset of systemic lupus erythematosus

Dan Li, Betsy Barnes, Bharati Matta, Su Song

Northwell Health, Manhasset, United States

Tu-P4-33

Umbilical cord-derived mesenchymal stromal cells attenuate H5N1-associated acute lung injury *in vitro*

Hayley Loy[1], Denise Iok Teng Kuok[1], Kenrie Pui Yan Hui[1], John Malcolm Nicholls[2], Joseph Sriyal Malik Peiris[1], Michael Chi Wai Chan[1]

[1]Centre of Influenza Research and School of Public Health, LKS Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong, [2]Department of Pathology, LKS Faculty of Medicine, The University of Hong Kong, Pokfulam, Hong Kong

Tu-P4-34

The novel ubiquitin ligase complex, NQO1-PDLIM2 inhibits TLR-dependent production of selective cytokines by degrading IκB-ζ

Akihiro Kimura, Masayuki Kitajima, Harumi Suzuki

Dept. of Immunology and Pathology, Research Institute National Center for Global Health and Medicine, Ichikawa-shi, Japan

Tu-P4-35

Functional analysis of 2 amino acids deleted transcription factor C/EBP epsilon found in neutrophil-specific granule deficiency

Tadayuki Akagi[1], Taizo Wada[2], Masahiro Muraoka[2], Tomoko Toma[2], Kenzo Kaji[3], Kazunaga Agematsu[4], H. Phillip Koeffler[5, 6], Akihiro Yachie[2], Takashi Yokota[1]

[1]Department of Stem Cell Biology, School of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, Japan, [2]Department of Pediatrics, School of Medicine, Institute of Medical, Pharmaceutical and Health Sciences, Kanazawa University, Kanazawa, Japan, [3]Department of Dermatology, Komatsu Municipal Hospital, Komatsu, Japan, [4]Department of Infection and Host Defense, Shinshu University Graduate School of Medicine, Matsumoto, Japan, [5]Division of Hematology and Oncology, Cedars-Sinai Medical Center, University of California Los Angeles School of Medicine, Los Angeles, United States, [6]Cancer Science Institute of Singapore, National University of Singapore, Singapore, Singapore

Tu-P4-36

Loss of function of Baf53a (a subunit of chromatin remodeling complex) results in cell death and Baf53b, as well as Baf53a, rescue the phenotype in mouse ES cells

Bo Zhu, Ueda Ueda, Xiaohong Song, Tadayuki Akagi, Takashi Yokota

Department of Stem Cell Biology, Graduate School of Medical Sciences, Kanazawa University, Ishikawa, Japan, Kanazawa, Japan

Tu-P4-37

The early synthesized CDK5-p35 complexes suppress interleukin-10 production through inhibition of binding partners that regulate MAPK activation in LPS-stimulated macrophages

Daun Jung, Yirang Na, Seung Hyeok Seok

Macrophage Laboratory, Department of Microbiology and Immunology, and Institute of Endemic Disease, Seoul National University College of Medicine, 103 Daehak-ro, Chongno-Gu, Korea, Republic of (South)

19：10～21：00

Session：Poster Session 6 "Cytokines in mucosal immunity"

Room: Ishikawa Ongakudō Interchange Hall

Tu-P6-1

TREM-1-dependent M1 polarization restores intestinal epithelium upon DSS-induced colitis by activating IL-22-producing innate lymphoid cells

Nien-Jung Chen, Fu-Chen Yang

Institute of Microbiology and Immunology School of Life Sciences National Yang-Ming University, Taipei, Taiwan

Tu-P6-2

Investigating the roles of IFNγ and IFNγ-stimulated GTPases during *Legionella pneumophila* replication in alveolar macrophages and monocyte-derived cells

Chao Yang[1, 2], Shivani Pasricha[2], Sze Ying Ong[2], Andrew Stephen Brown[1, 2], Junya Yamagishi[3], Chihiro Sugimoto[3], Sammy Bedoui[2], Ian R. van Driel[1], Elizabeth L. Hartland[2]

[1]Department of Biochemistry and Molecular Biology, Bio21 Molecular Science and Biotechnology Institute, University of Melbourne, Vic, Melbourne, Australia, [2]Department of Microbiology and Immunology, University of Melbourne at the Peter Doherty Institute for infection and immunity, Vic, Melbourne, Australia, [3]Global Institution for Collaborative Research and Education, Hokkaido University,, Hokkaido, Japan

Tu-P6-3

Pulmonary macrophage transplantation therapy in *Csf2ra* gene-deficient mice, a novel clinically relevant model of children with hereditary pulmonary alveolar proteinosis

Takuji Suzuki[1, 2], Kenjiro Shima[2], Paritha Arumugam[2], Bruce Trapnell[2]

[1]Jichi Medical University, Shimotsuke-shi, Japan, [2]Cincinnati Children's Hospital Medical Center, Cincinnati, United States

Tu-P6-4

Role of IFNs in gastro-intestinal mucosal inflammation

Constance McElrath[1, 6], Jian-Da Lin[2], Vanessa Espinosa[4, 5], Jianya Peng[1, 6], Raghavendra Sridhar[1, 6], Orchi Dutta[4, 6], Hsiang-Chi Tseng[2, 6], Sergey Smirnov[1], Risman Heidi[2], Marvin Sandoval[7], Mark Galan[2], Amariliz Rivera[3, 4, 5], Joan Durbin[2, 4, 5], Sergei Kotenko[1, 4, 5]

[1]Department of Microbiology, Biochemistry, and Molecular Genetics, Rutgers University, Newark, United States, [2]Department of Pathology and Laboratory Medicine, Rutgers University, Newark, United States, [3]Department of Pediatrics, Rutgers University, Newark, United States, [4]Center for Immunity and Inflammation, Rutgers University, Newark, United States, [5]University Hospital Cancer Center, New Jersey Medical School, Rutgers Biomedical and Health Sciences, Rutgers University, Newark, United States, [6]Graduate School of Biomedical Sciences, Rutgers University, Newark, United States, 7Department of Pathology, New York University School of Medicine, New York, United States

Tu-P6-5

Type I IFN signaling induces Th17 cells capable of promoting gut-mucosal CTLs following intramuscular vaccination of an adenovirus vector

Masahisa Hemmi[1], Masashi Tachibana[1], Natsuki Fujimoto[1], Masaki Shoji[1], Fuminori Sakurai[1], Kouji Kobiyama[2, 3], Ken J. Ishii[2, 3], Shizuo Akira[3, 4], Hiroyuki Mizuguchi[1, 2, 5]

[1]Graduate School of Pharmaceutical Sciences, Osaka University, Osaka, Japan, [2]National Institutes of Biomedical Innovation, Health, and Nutrition, Osaka, Japan, [3]Immunology Frontier Research Center, Osaka University, Osaka, Japan, [4]The Research Institute for Microbial Diseases, Osaka University, Osaka, Japan, [5]Global Center for Medical Engineering and Informatics, Osaka University, Osaka, Japan

Tu-P6-6

Pulmonary administration of Duox2 DNA induces interferon secretion in vivo lung against acute influenza A viral infection

Hyun Jik Kim, Yung Jin Jeon, Ara Jo, Sujin An

Seoul National University College of Medicine, Seoul, Korea, Republic of (South)

Tu-P6-7

Human Plasmacytoid Dendritic Cells bind, become activated by, and respond to Aspergillus fumigatus conidia via surface pattern recognition receptors

Samuel Maldonado[1], Jihong Dai[1], Sukhwinder Singh[1], Shobha Swaminathan[2], Evelyne Kalyoussef[3], Bryan Ciccarelli[4], Amariliz Rivera[5], Patricia Fitzgerald-Bocarsly[1]

[1]Department of Pathology and Laboratory Medicine, Rutgers New Jersey Medical School, Newark, United States, [2]Department of Medicine, Rutgers New Jersey Medical School, Newark, United States, [3]Department of Otolaryngology, Rutgers New Jersey Medical School, Newark, United States, [4]Department of Microbiology, Biochemistry, and Molecular Genetics, Rutgers New Jersey Medical School, Newark, United States, [5]Department of Pediatrics, Rutgers New Jersey Medical School, Newark, United States

Tu-P6-8

The Microbiome, Staphylococcus epidermidis in Human Nasal Mucosa can enhance IFN-lambda-related immune responses against influenza viral infection

Seong Il Kang, Doo Hee Han, Yung Jin Jeon, Sujin An, Ara Jo, Hyun Jik Kim

Seoul National University College of Medicine, Seoul, Korea, Republic of (South)

Tu-P6-9

Blockade of TLR3 protects mice from lethal radiation-induced gastrointestinal syndrome

Naoki Takemura[1, 2], Satoshi Uematsu[1, 2]

[1]Department of Mucosal Immunology, School of Medicine, Chiba University, Chiba, Japan, [2]2Division of Innate Immune Regulation, International Research and Development Center for Mucosal Vaccines, Institute of Medical Science, The University of Tokyo, Tokyo, Japan

Tu-P6-10

Eosinophil and α-SMA$^+$ stromal cell interactions induce a positive feedback loop for fibrosis of the small intestine after abdominal irradiation

Satoshi Uematsu

Department of Mucosal Immunology, School of Medicine, Chiba University,, Chiba, Japan

Tu-P6-11

Toll-like receptor 5-mediated induction of type I interferon is required for mucosal anti-flagellin antibody production

YOU-ME KIM[1], Wondae Kang[1], Areum Park[1], Ji-Won Huh[1], Da-Jung Jung[1], Heung-Kyu Lee[2]

[1]Division of Integrative Biosciences & Biotechnology, Pohang University of Science & Technology, Pohang, Korea, Republic of (South), [2]Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology, Daejeon, Korea, Republic of (South)

Tu-P6-12

IFN-λ enhances IgG1 antibody production after intranasal immunization by a TSLP-dependent mechanism

Peter Staeheli[1], Liang Ye[1], Daniel Schnepf[1], Jan Becker[1], Karolina Ebert[2], Valentina Bernasconi[3], Hans A Gad[4], Yakup Tanriver[2], Rune Hartmann[4], Nils Lycke[3]

[1]Institute of Virology, Medical Center University of Freiburg, Freiburg, Germany, [2]Institute of Microbiology, Medical Center University of Freiburg, Freiburg, Germany, [3]Mucosal Immunobiology and Vaccine Center (MIVAC), Department of Microbiology and Immunology, Institute of Biomedicine, University of Gothenburg, Gothenburg, Sweden, [4]Department of Microbiology and Genetics, Aarhus University, Aarhus, Denmark

Tu-P6-13

Integrin-linked kinase expression in myeloid cells promotes inflammatory signaling during colitis and enhances colon tumorigenesis.

Afsar U. Ahmed[1, 2], Bryan R. G. Williams[1, 2]

[1]The Centre for Cancer Research, The Hudson Institute of Medical Research, Clayton, VIC 3168, Australia, Melbourne, Australia, [2]The Department of Molecular and Translational Science, Monash University, Clayton, VIC 3168, Australia, Melbourne, Australia

Tu-P6-14

Mesenchymal causalities in inflammation, immunity and cancer.

George Kollias

President and Director, Biomedical Sciences Research Center 'Alexander Fleming', Professor of Physiology, Medical School, University of Athens. Member, Academy of Athens, Vari, Greece

Tu-P6-15

Gut microbiota as a source of signals that trigger spontaneous ocular autoimmunity

Reiko Horai[1], Ryan Salvador[1], Kikuji Itoh[2], Yingyos Jittayasothorn[1], Yoshinori Umesaki[3], Katsuko Sudo[4], Kenya Honda[5], Rachel Caspi1

[1]Laboratory of Immunology, National Eye Institute, NIH, Bethesda, United States, [2]Bio-Technical Center, Japan SLC, Inc., Hamamatsu, Japan, [3]Yakult Central Institute, Kunitachi, Japan, [4]Tokyo Medical University, Shunjuku, Japan, [5]Keio University School of Medicine, Shunjuku, Japan

Tu-P6-16

Inhibition of IL-17F signaling promotes commensal microbiota-induced colonic Tregs to suppress intestinal inflammation

Ce Tang[1], Shigeru Kakuta[2], Yoichiro Iwakura[1]

[1]Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Noda-shi, Chiba, Japan, [2]Department of Biomedical Science, Graduate School of Agricultural and Life Sciences, the University of Tokyo, Tokyo, Japan

Tu-P6-17

Type I and type III interferons display different dependency on MAPKs to mount an antiviral state in the human gut

Megan L Stanifer[1], Kalliopi Pervolaraki[1], Dorothee Albrecht[2], Lynnsey Renn[3], Ronald Rabin[3], Steeve Boulant[1, 2]

[1]University Hospital Heidelberg, Heidelberg, Germany, [2]DKFZ, Heidelberg, Germany, [3]USFDA, Bethesda, United States

Tu-P6-18

STAT2 induced Type I Interferon response promotes susceptibility to Salmonella enterica serovar Typhimurium induced inflammation in the gut

Ana M Gamero[1], Sarah A Tursi[2], Paul Wilson[2], Kevin P Kotredes[1], Glenn Rapsinski[2], Nicole Medeiros[2], Elisabetta Liverani[3], Laurie Kilpatrick[3], Cagla Tukel[2]

[1]Temple University Department of Medical Genetics & Molecular Biochemistry, Philadelphia, United States, [2]Temple University Department of Microbiology and Immunology, Philadelphia, United States, [3]Temple University Lung & Inflammation Center, Philadelphia, United States

Tu-P6-19

Norovirus infection induces inflammatory responses to dietary antigens

Scott B Biering[1], Romain Bouziat[2, 3], Reinhard Hinterleitner[2, 3], Seungmin Hwang[1, 3, 6], Bana Jabri[2, 3, 4, 5, 6]

[1]Committee on Microbiology, University of Chicago, Chicago, United States, [2]Department of Medicine, University of Chicago, Chicago, United States, [3]Committee on Immunology, University of Chicago, Chicago, United States, [4]University of Chicago Celiac Disease Center, Chicago, United States, [5]Section of Gastroenterology, Hepatology, and Nutrition, Department of Pediatrics, University of Chicago, Chicago, United States, [6]Department of Pathology, University of Chicago, Chicago, United States

Tu-P6-20

Beta-defensins inducing by interleukin-17s in oral epithelial cell

Thatawee Khemwong, Hiroaki Kobayashi, Takeaki Sudo, Chihiro Kano, Yuichi Izumi

Department of Periodontology, Tokyo Medical and Dental University, Tokyo, Japan

Tu-P6-21

Expression of DICAM, a novel cell adhesion molecule, is well correlated with inflammation of colonic epithelial cells

Hoyul Lee[1], Eun Soo Kim[2], Chang Joo Oh[3], Byong-Keol Min[4], Eun Jung Choi[4]

[1]Leading-edge Research Center for Drug Discovery and Development for Diabetes and Metabolic Disease, Kyungpook National University Medical Center, Daegu, Korea, Republic of (South), [2]Department of gastroenterology, Kyungpook National University Medical Center, Daegu, Korea, Republic of (South), [3]Research Institute of Aging and Metabolism, Kyungpook National University School of Medicine, Daegu, Korea, Republic of (South), [4]Department of Biomedical Science, Graduate School, Kyungpook National University, Daegu, Republic of Korea; BK21 Plus KNU Biomedical Convergence Program, Kyungpook National University, Daegu, Korea, Republic of (South)

Tu-P6-22

Dual functions of Rap1 are crucial for T-cell homeostasis and prevention of spontaneous colitis

Sayaka Ishihara[1], Miho Mamiyoda[1], Tsuyoshi Sato[1], Akihiko Nishikimi[1], Makoto Saegusa[2], Koko Katagiri[1]

[1]Department of Biosciences, School of Science, Kitasato University, Sagamihara, Japan, [2]Department of Pathology, School of Medicine, Kitasato University, Sagamihara, Japan

Tu-P6-23

Molecular mechanism of anti-pneumococcal immune responses by Dectin-1

Yukiko Akahori[1, 2], Rikio Yabe[2], Yoichiro Iwakura[3], Shinobu Saijo[2]

[1]International University of Health and Welfare, Narita, Japan, [2]Medical Mycology Research Center, Chiba University, Chiba, Japan, [3]Center for Experimental Animal Models, Institute for Biomedical Sciences, Tokyo University of Science, Noda, Japan

Tu-P6-24

CCR6 deficiency impairs IgA production and dysregulates antimicrobial peptide production, altering the intestinal flora

Ya-Lin Lin[1, 2], Peng-Peng Ip[2], Fang Liao[2]

[1]Taiwan International Graduate Program in Molecular Medicine, National Yang-Ming University and Academia Sinica, Taipei, Taiwan, [2]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

Tu-P6-25

Effector T cell migration from gut immune system

Mizuki UEDA[1], Taiki MORIYA[1], Ryoyo KUSUMOTO[1, 2], Yutaka KUSUMOTO[1], Michio TOMURA[1]

[1]Laboratory of Immunology Faculty of Pharmacy, Osaka Ohtani University, Tondabayashi, Japan, [2]Research Fellow of Japan Society for the Promotion of Science, Tokyo, Japan

Tu-P6-26

STING is a negative regulator of innate immune response in *Cryptococcus neoformans* infection

Mutsuki Kobayashi, Rikio Yabe, Maki Wakatsuki, Yukiko Akahori, Shinobu Saijo

Medical Mycology Research Center, Chiba University, Chiba City, Japan

Tu-P6-27

Search for an enhancer of IL-10 production in the intestinal macrophages for new therapy against inflammatory bowel disease

Nonoka Wakabayashi, Shusaku Hayashi, Makoto Kadowaki

Division of Gastrointestinal Pathophysiology, Institute of Natural Medicine, University of Toyama, Toyama, Japan

Tu-P6-28

Intestinal macrophages function polarization by monosaccharides in mice lacking mucin2.

Kseniya Achasova, Ekaterina Litvinova

The Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia

19：10～21：00

Session：Poster Session 8 "Cytokines and inflammatory factors in host defense"

Room: Ishikawa Ongakudō Interchange Hall

Tu-P8-1

Hypoxia-inducible factor 1α or hypoxia-inducible factor 2α is not required for the development and physiological function of regulatory T cells

Ming-Zong Lai, Tzu-Sheng Hsu, Yen-Lin Lin, Wan-Chen Hsieh

Institute of Molecular Biology Academia Sinica, Taipei, Taiwan

Tu-P8-2

Pulmonary upregulation of HMGB1signaling following fipronil and endotoxin interaction.

Arif Ahmad Pandit[1], Ravi Kumar Gandham[2], Ramneek Verma[1], Ram Saran Sethi[1]

[1]School of Animal Biotechnology, Guru Angad Dev Veterinary and Animal Science University, Ludhiana, India, Ludhiana, India, [2]Division of Veterinary Biotechnology, Indian Veterinary Research Institute, Bareilly, UP, India, Bareilly, India

Tu-P8-3

Regulation of hepatic fibrogenic response by Suppressor of Cytokine Signaling 1 (SOCS1)

Rajani Kandhi, Euphrasie Kawila-Mafanda, Sheela Ramanathan, Subburaj Ilangumaran

Immunology Division, Department of Pediatrics, Faculty of Medicine and Health Sciences, University of Sherbrooke, Sherbrooke, Canada

Tu-P8-4

Mincle-independent anti-neuroinflammatory action of mycobacterial cord factor analogue trehalose-6, 6′-dibehenate in microglia.

Wan-Wan Lin, Mahendravarman Mohanraj, Ponarulselvam Sekar

Department of Pharmacology, College of Medicine, National Taiwan University, Taipei, Taiwan

Tu-P8-5

Driving innate immune activation via crosstalk of antiviral and inflammatory signaling of interleukin-1β and IRF3

Lauren Danielle Aarreberg[1, 2], Courtney Wilkins[1, 2], Michael Gale, Jr.[1, 2]

[1]Department of Immunology, University of Washington, Seattle, United States, [2]Center for Innate Immunity & Immune Disease, University of Washington, Seattle, United States

Tu-P8-6

Regulation of the innate immune response to *Staphylococcus aureus* in the airway by type III interferons

Silvia Pires, Dane Parker

Columbia University, New York, United States

Tu-P8-7

FAS-associated factor-1 (FAF1) Modulates Phagocytic NADPH Oxidase Activation in Response to Bacterial Infection

Tae-Hwan Kim, Hyun-Cheol Lee, Jong-Soo Lee

College of Veterinary Medicine, Chungnam National University, Daejeon, Korea, Republic of (South)

Tu-P8-8

Critical role of CD8⁺ T cells in immune reconstitution inflammatory syndrome (IRIS) model by nontuberculous mycobacterium infection.

Masahiro Kitabatake[1], Mitsuru Konishi[2], Yoko Matsumura[1, 3], Noriko Ouji-Sageshima[1], Natsuko Imakita[1], Koichi Tomoda[4], Toshihiro Ito[1]

[1]Department of Immunology, Nara Medical University, Nara, Japan, [2]Center for Health Control, Nara Medical University, Nara, Japan, [3]Department of Health and Nutrition, Faculty of Health Science, Kio University, Nara, Japan, [4]Second Department of Internal Medicine, Nara Medical University, Nara, Japan

Tu-P8-9

Dysbiosis-induced IL-33 contributes to impaired antiviral immunity in the female genital mucosa

Ji Eun Oh, Heung Kyu Lee

Graduate School of Medical Science and Engineering, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea, Republic of (South)

Tu-P8-10

Chemotaxis of CCL4 on monocytes and neutrophils *in vitro* and recruitment of macrophages and CD8⁺ T cells in the intestinal mucosa: effects on Salmonella Typhimurium control

Rafael A Casarin Penha Filho, Adriana M Almeida, Hélio Jose Monstassier, Angelo Berchieri Jr

School of Agricultural and Veterinary Sciences, São Paulo State University (UNESP), Jaboticabal Campus, SP, Brazil, 14884-900, Jaboticabal, Brazil

Tu-P8-11

Targeting the host cytokine response to treat virulent intracellular pathogens

Riccardo D'Elia[1], Joshua Casulli[2], Tracy Hussell[2], Simon Vautier[2], Mark Travis[2, 3]

[1]Defence Science and Technology Laboratory, Salisbury, United Kingdom, [2]Manchester Collaborative Centre for Inflammation Research (MCCIR),, Manchester, United Kingdom, [3]Wellcome Centre for Cell-Matrix Research, Manchester, United Kingdom

Tu-P8-12

Skewing the population balance between lymphoid and myeloid cells by osteopontin isoforms

Masashi Kanayama[1, 5], Shengjie Xu[1], Keiko Danzaki[1], Jason R. Gibson[2, 3], Makoto Inoue[1], Simon G. Gregory[2, 4], Mari L. Shinohara[1, 4]

[1]Department of Immunology, Duke University School of Medicine, Durham, United States, [2]Duke Molecular Physiology Institute, Duke University School of Medicine, Durham, United States, [3]Department of Medicine, Duke University School of Medicine, Durham, United States, [4]Department of Molecular Genetics and Microbiology, Duke University School of Medicine, Durham, United States, [5]Current Address: Department of Biodefense Research, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan

Tu-P8-13

Anti-miR-301a; a double-edged sword in fighting Japanese encephalitis virus

Anirban Basu, Bibhabasu Hazra

National Brain Research Center, Manesar, India

Tu-P8-14

Targeting the NLRP3 inflammasome is a viable option for the treatment of pathogenic influenza virus infections

Sarah Rosli, Anita Pinar, Ashley Mansell, Michelle Tate

Hudson Institute of Medical Research, Melbourne, Australia

Tu-P8-15

Quantitative multiplex cytokine assays: issues and solutions

Shaoquan Ji

BioLegend, Inc., San Diego, United States

Tu-P8-16

Interferon epsilon in the regulation of mucosal innate immune responses in the female reproductive tract

Niamh E Mangan[1, 2], Eveline De Geus[1, 2], Lisa Mielke[3], Jodee Gould[1, 2], Helen Cumming[1, 2], Isaac Woodhouse[1, 2], Linden J Gearing[1, 2], Antony Matthews[1, 2], Nicole deWeerd[1, 2], Gabrielle Belz[3], Philip Hansbro[4], Paul Hertzog[1, 2]

[1]Centre for Innate Immunity and Infectious Diseases, Hudson Institute of Medical Research, Clayton, Australia, [2]Department of Molecular and Translational Sciences, Faculty of Medicine, Nursing and Health Sciences, Monash University, Melbourne, Australia, [3]Molecular Immunology Division, Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, [4]Hunter Medical Research Institute, School of Biomedical Sciences and Pharmacy, University of Newcastle, Newcastle, Australia

Tu-P8-17

Prostaglandin E2 released by dying cells functions as an inhibitory DAMP

Sho Hangai[1, 2], Hideyuki Yanai[1, 2], Tadatsugu Taniguchi[1, 2]

[1]Department of Molecular Immunology, Institute of Industrial Science, The University of Tokyo, Tokyo, Japan, [2]Max Planck-The University of Tokyo Center for Integrative Inflammology, Tokyo, Japan

Tu-P8-18

Predictive value of tumor necrosis factor-α and interleukin-1β on post-stroke depression

Jae-Min KIM

Departments of Psychiatry, Chonnam National University Medical School, Gwangju, Korea, Republic of (South)

Tu-P8-19

PIR-B repressed IL-6 secretion from mesenchymal stem cells regulating the immunoglobulin production of plasma cells.

Atsuko Kayaba, Ari Itoh-Nakadai, Masanori Inui, Toshiyuki Takai

Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, Sendai, Japan

Tu-P8-20

Tumor Necrosis Factor alpha-producing Regulatory T Cells in Patients With Acute Hepatitis A

Min Kyung Jung[1], Yoon Seok Choi[1, 2], Su-Hyung Park[3], Jun Yong Park[4], Eui-Cheol Shin[1]

[1]1Laboratory of Immunology and Infectious Diseases, Graduate School of Medical Science and Engineering, KAIST, Daejeon, Korea, Republic of (South), [2]Department of Internal Medicine, Chungnam National University College of Medicine, Daejeon, Korea, Republic of (South), [3]Laboratory of Translational Immunology and Vaccinology, Graduate School of Medical Science and Engineering, KAIST, Daejeon, Republic of Korea, Daejeon, Korea, Republic of (South), [4]Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea, Republic of (South)

Tu-P8-21

Elevated Th17 and M1 cytokine pathways associated with chronic *Candida albicans* infection may promote mouse oral cancer development

Ko-Jiunn Liu[1, 2, 3], Wen-Chan Yang[1], Pei-Yi Chu Chu[4, 5]

[1]National Institute of Cancer Research, National Health Research Institutes, Tainan, Taiwan, [2]Institute of Clinical Pharmacy and Pharmaceutical Sciences, National Cheng Kung University, Tainan, Taiwan, [3]School of Medical Laboratory Science and Biotechnology, Taipei Medical University, Taipei, Taiwan, [4]Department of Pathology, Show Chwan Memorial Hospital, Changhua City, Taiwan, [5]School of Medicine, Fu Jen Catholic University, New Taipei City, Taiwan

Tu-P8-22

Regulatory T cells induced by B cells inhibited the maturation of dendritic cells via cytotoxic T-lymphocyte-associated protein 4 pathwayRegulatory T cells induced by B cells inhibited the maturation of dendritic cells via cytotoxic T-lymphocyte-associated protein 4 pathway

Yi-Lien Chen[1], Bor-Luen Chiang[1, 2]

[1]Graduate Institute of Clinical Medicine, School of Medicine, National Taiwan University, Taipei, Taiwan, [2]Department of Medical Research, National Taiwan University Hospital, Taipei, Taiwan

Tu-P8-23

Acceleration of CD25+Foxp3+ regulatory T cell development by amodiaquine through activation of nuclear receptor 4A

Hee Yeon Won, Eun Sook Hwang

Ewha Womans University, Seoul, Korea, Republic of (South)

Tu-P8-24

CRIF1 controls autoimmune arthritis via regulation of Th17 cells

Jin-Sil Park[1], Si-Young Choi[1], Sung-Min Kim[1], Sun-Hee Hwang[1], Mi-La Cho[1], Sung-Hwan Park[1, 2]

[1]1The Rheumatism Research Center, Catholic Research Institute of Medical Science, The Catholic University of Korea, Seocho-gu, Korea, Republic of (South), [2]2Divison of Rheumatology, Department of Internal Medicine, The Catholic University of Korea, Seocho-gu, Korea, Republic of (South)

Tu-P8-25

IL-21 augments systemic anaphylaxis through the duodenum-migrated neutrophils that express eotaxin receptor.

Yuji Takeda[1], Tomoyuki Kato[2], Nobuhito Nemoto[1, 3], Akemi Araki[1], Md. Yeashin Gazi[1], Hidetoshi Nara[1], Hironobu Asao[1]

[1]Department of Immunology, Yamagata University Faculty of Medicine, Yamagata, Japan, [2]Department of Urology, Yamagata University Faculty of Medicine., Yamagata, Japan, [3]Department of Orthopedics, Yamagata University Faculty of Medicine., Yamagata, Japan

Tu-P8-26

The role of Th17 cells and macrophages in intestinal nematode infection.

Masaya Takamoto[1], Mariko Yamanoi[2], Hisanori Matoba[2], Jun Nakayama[2]

[1]Department of Infection and Host Defense, Shinshu University School of Medicine, Matsumoto, Japan, [2]Department of Molecular Pathology, Shinshu University School of Medicine, Matsumoto, Japan

19：10～21：00

Session：Poster Session 10 "Cytokines in autoimmune diseases"

Room: Ishikawa Ongakudō Interchange Hall

Tu-P10-1

TCR analysis of infiltrated CD4$^+$ T cells in the salivary glands of Sjögren's syndrome mice model

Mana Iizuka[1], Satoru Takahashi[2, 3], Isao Matsumoto[4], Takayuki Sumida[4], Akihiko Yoshimura[1]

[1]Department of Microbiology and Immunology, Keio University School of Medicine, Shinjuku-ku, Japan, [2]Department of Anatomy and Embryology, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan, [3]Laboratory Animal Resource Center, University of Tsukuba, Tsukuba, Japan, [4]Department of Internal Medicine, Faculty of Medicine, University of Tsukuba, Tsukuba, Japan

Tu-P10-2

Secretory leukocyte peptidase inhibitor (SLPI) is highly expressed in long-lived plasma cells

Ari Itoh-Nakadai, Atsuko Kayaba, Toshiyuki Takai

Department of Experimental Immunology, Institute of Development, Aging and Cancer, Tohoku University, Miyagi, Japan

Tu-P10-3

Helminth products prevent autoimmunity by targeting IL-1

Shauna Quinn, Kingston HG Mills

Immune Regulation Research Group, Trinity Biomedical Sciences Institute, Trinity College Dublin,, Dublin, Ireland

Tu-P10-4

Expression of Ly6C/6G defines a novel subset of medullary thymic epithelial cells

Junko Morimoto[1], Nishikawa Yumiko[2], Kazuyoshi Hosomichi[3], Hitoshi Nishijima[1], Mitsuru Matsumoto[1]

[1]Division of Molecular Immunology, Institute for Enzyme Research, Tokushima University, Tokushima, Japan, [2]Division of Molecular Medicine, Institute for Genome Research, Tokushima University, Tokushima, Japan, [3]Department of Bioinformatics and Genomics, Graduate School of Medical Sciences, Kanazawa University, Ishikawa, Japan

Tu-P10-5

Co-expression of receptors for TNF-α is altered on T-regulatory cells in rheumatoid arthritis

Alina Alshevskaya[1], Julia Lopatnikova[1], Irina Belomestnova[2], Oksana Chumasova[1], Nadezhda Shkaruba[1], Aleksey Sizikov[1], Sergey Sennikov[1]

[1]Federal State Budgetary Scientific Institution "Research Institute of Fundamental and Clinical Immunology", Novosibirsk, Russia, [2]Novosibirsk State Medical University, Novosibirsk, Russia

Tu-P10-6

Delay and lower affinity antibody responses to seasonal trivalent influenza vaccination in diabetes mellitus related to reduced IFN-α gene expression and anti-diabetic treatment

Wipawee Saenwongsa[1, 2], Arnone Nithichanon[1], Malinee Chittaganpitch[3], Kampaew Buayai[3], Chidchamai Kewcharoenwong[1], Boonyarat Thumrongwilainet[4], Sarayuth Uttamangkapong[2], Manabu Ato[5], Ganjana Lertmemongkolchai[1]

[1]Centre for Research and Development of Medical Diagnostic Laboratories, Faculty of Associated Medical Science, Khon Kaen University, Khon Kaen, Thailand, [2]Disease Prevention and Control Region 10th, Ubonratchathani, Ministry of Public Health, Thailand, Ubonratchathani, Thailand, [3]National Influenza Centre, Department of Medical Science, Ministry of Public Health, Thailand, Bangkok, Thailand, [4]Yanglum Health Promotion Hospital, Ubonratchathani, Thailand, Ubonratchathani, Thailand, [5]National Institute of Infectious Diseases, Tokyo, Japan., Tokyo, Japan

Tu-P10-7

Rituximab-treatment reduces CD8⁺ T cell expansion after seasonal influenza vaccination

Theresa Frenz[1], Torsten Witte[2], Katharina Borst[1], Lea A. Vaas[3], Murielle Verboom[4], Michael Hallensleben[4], Mario Köster[5], Carlos A. Guzmán[6], Gerd Sutter[7], Reinhold E. Schmidt[2], Ulrich Kalinke[1]

[1]Institute for Experimental Infection Research, TWINCORE, Centre for Experimental and Clinical Infection Research, Hannover, Germany, [2]Clinic for Immunology and Rheumatology, Hannover Medical School, Hannover, Germany, [3]Fraunhofer-IME SP, Hamburg, Germany, [4]Institute for Transfusion Medicine, Hannover Medical School, Hannover, Germany, [5]Research Group Model Systems for Infection and Immunity, Helmholtz Centre for Infection Research, Brunswick, Germany, [6]Department of Vaccinology and Applied Microbiology, Helmholtz Centre for Infection Research, Brunswick, Germany, [7]Institute for Infectious Diseases and Zoonoses, Ludwig-Maximilians University, Munich, Germany

Tu-P10-8

Microglia in the CNS exhibit distinct phenotypes in the transgenic murine models of interleukin-6- versus interferon-α-mediated cytokinopathy

Iain L Campbell[1], Phillip K West[1], Oleg Butovsky[2]

[1]University of Sydney, Sydney, Australia, [2]Harvard Medical School, Harvard, United States

Tu-P10-9

CNS-Derived APRIL Triggers An IL-10-Mediated Anti-Inflammatory Response From Astrocytes In Multiple Sclerosis

laurie baert[1], natalia popa[2], jose boucraut[2], nathalie sturm[3], jean boutonnat[3], olivier casez[3], romain vives[4], hugues lortat-jacob[4], hans lassmann[5], bertrand huard[1]

[1]Institute for Advanced Biosciences, La Tronche, France, [2]University Mediterranee, Marseille, France, [3]University Hospital, Grenoble, France, [4]Institute of Structural Biology, Grenoble, France, [5]Center for Brain Research, Vienna, Austria

Tu-P10-10

Identification of new myeloid-derived fibrosis-inducing cells accounting for cardio-renal syndrome

Akihiro Sagara[1], Norihiko Sakai[1], Yasunori Iwata[1], Kengo Furuichi[1], Yasuhiko Yamamoto[2], Takashi Wada[1, 3]

[1]Division of Nephrology, Kanazawa University Hospital, Kanazawa, Japan, [2]Department of Biochemistry and Molecular Vascular Biology, Kanazawa University Graduate School of Medical Sciences, Kanazawa, Japan, [3]Department of Nephrology and Laboratory Medicine, Kanazawa University, Kanazawa, Japan

Tu-P10-11

Corroboration of osteoarthritis in diabetic mice model

Navneet Kumar Dubey[1, 2], Win-Ping Deng[2, 3], Sung-Hsun Yu[2], Wei-Hong Chen[2]

[1]Graduate Institute of Biomedical Materials and Tissue Engineering, College of Biomedical Engineering, Taipei Medical University, Taiwan, Taipei, Taiwan, [2]Stem Cell Research Center, Taipei Medical University, Taiwan, Taipei, Taiwan, [3]College of Oral Medicine, Taipei Medical University, Taipei, Taiwan

Tu-P10-12

A novel peptide inhibitor targeting interferon regulatory factor 5 (IRF5) ameliorates lupus disease severity in NZB/W F1 mice

Su Song[1], Saurav De[1, 2], Dan Li[1], Betsy Barnes[1, 2]

[1]The Feinstein Institute for Medical Research, Northwell Health, Manhasset, United States, [2]2Rutgers Biomedical and Health Sciences, New Jersey Medical School-Cancer Center, Newark, United States

Tu-P10-13

Collagen-induced arthritis, an animal model of rheumatoid arthritis, is ameliorated by injection of a substance X

Tomonori KAIFU[1], Soo-Hyun Chung[2], Yoichiro Iwakura[2]

[1]Department of Immunology, Tohoku Medical and Pharmaceutical University, Miyagi, Japan, [2]Center for Animal Disease Models, Research Institution for Biological Sciences, Tokyo University of Science, Chiba, Japan

Tu-P10-14

Inflammatory and anti - inflammatory profile of vitamin D receptor-deficient BV-2 microglial cells

Yevgeny Aster Tubola Dulla[1, 2], Yuki Kurauchi[1], Akinori Hisatsune[1, 2], Takahiro Seki[1], Hiroshi Katsuki[1]

[1]Department of Chemico-pharmacological Sciences, Graduate School of Pharmaceutical Sciences, Kumamoto University, Kumamoto City, Japan, [2]HIGO Program, Program for Leading Graduate Schools, Kumamoto University, Kumamoto City, Japan

Tu-P10-15

Blimp - 1 deficiency exacerbates experimental autoimmune encephalomyelitis in mice by impairing the IL-10 production of Treg cells

Ming-Hong Lin[1], Huey-Kang Sytwu[2, 3]

[1]Kaohsiung Medical University, College of Medicine, Institute of Medicine, Department of Microbiology and Immunology, Kaohsiung City, Taiwan, [2]National Defense Medical Center, Department and Graduate Institute of Microbiology and Immunology, Taipei City, Taiwan, [3]National Defense Medical Center, Graduate Institute of Life Sciences, Taipei City, Taiwan

Tu-P10-16

Human mesenchymal stem/stromal cells express *CCL2* (MCP-1) on ischemic hippocampal homogenate exposure

Hirokazu Ohtaki[1], Jun Watanabe[2], Kazumichi Yagura[1], Kazuyuki Miyamoto[3], Yoichiro Iwakura[4], Kenji Dohi[3], Kazuho Honda[1]

[1]Department of Anatomy, Showa University School of Medicine, Tokyo, Japan, [2]Center for Biotechnology, Showa University, Tokyo, Japan, [3]Department of Emergency and Critical Care Medicine, Showa University School of Medicine, Tokyo, Japan, [4]4. Division of Experimental Animal Immunology, Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

Tu-P10-17

Expression patterns and distributions of chemokines and their receptors after spinal cord injury (SCI) in mice

Kazumichi Yagura[1, 2], Hirokazu Ohtaki[1], Tomomi Tsumuraya[2], Atsushi Sato[2], Jun Watanabe[3], Yutaka Hiraizumi[4], Kazuho Honda[1]

[1]Department of Anatomy, Showa University School of Medicine, Tokyo, Japan, [2]Department of Orthopedic Surgery, Showa University Fujigaoka Hospital, Yokohama, Japan, [3]Center for Biotechnology, Showa University School of Medicine, Tokyo, Japan, [4]Department of Orthopedic Surgery, Showa University School of Medicine, Tokyo, Japan

19：10～21：00

Session：Poster Session 12 “Helper T cell differentiation”

Room: Ishikawa Ongakudō Interchange Hall

Tu-P12-1

TET2 and TET3 regulate helper T cell differentiation in the periphery.

Hiroko Nakatsukasa, Akihiko Yoshimura

Keio University School of Medicine, Tokyo, Japan

Tu-P12-2

Regulation of Foxp3 stability through modulation of TET expression and activity by hypoxia and vitamin C.

Kazue Someya, Akihiko Yoshimura

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

Tu-P12-3

Vitamin C stabilizes Foxp3 expression in induced Treg (iTreg) cells and ameliorates acute graft versus host disease in mice

Hidenori Kasahara, Akihiko Yoshimura

Division of Hematology, Department of Medicine Keio University School of Medicine, Tokyo, Japan

Tu-P12-4

The role of SOCS1 in regulatory T cells to maintain functional stability under inflammatory conditions

Reiko Takahashi[1, 2], Tomoyuki Yamaguchi[1], Hiroko Nakatsukasa[2], Akihiko Yoshimura[2]

[1]Department of Immunology, Research Institute, Nozaki Tokushukai, Daitou, Japan,
[2]Department of Microbiology and Immunology, Keio University School of Medicine, Shinjuku, Japan

Tu-P12-5

PI3K-Akt pathway enhances Tr1 differentiation induced by IL-27

Shigenori Nagai[1], Nadya Niken Adiba[1], Hiroyuki Tezuka[2], Toshiaki Ohteki[3], Satoshi Matsuda[4], Miyuki Azuma[1]

[1]Department of Molecular Immunology, Tokyo Medical and Dental University, Tokyo, Japan, [2]Life Science Tokyo Advanced Research Center, School of Pharmacy and Pharmaceutical Sciences, Hoshi University, Tokyo, Japan, [3]Department of Biodefense, Medical Research Institute, Tokyo Medical and Dental University, Tokyo, Japan, [4]Department of Cell Signaling, Institute of Biomedical Science, Kansai Medical University, Osaka, Japan

Tu-P12-6

CXCR5 transduction endows T follicular regulatory cell-like features in Treg cells

BYUNG-SEOK KIM[1], YOUNG UK KIM[2], YEONSEOK CHUNG[1]

[1]Laboratory of Immune Regulation, Research Institute of Pharmaceutical Science, College of Pharmacy, Seoul National University, SEOUL, Korea, Republic of (South), [2]University of Texas Health Science Center at Houston, HOUSTON, United States

Tu-P12-7

Follicular regulatory helper T cells control the response of regulatory B cells to a high-cholesterol diet.

Karim J. Brandt[1], Fabienne Burger[1], Rodrigo Fraga-Silva[2], François Mach[1]

[1]Division of Cardiology, Foundation for Medical Researches, Department of Internal Medicine, University of Geneva, Geneva, Switzerland, [2]Institute of Bioengineering, Ecole Polytechnique Fédérale de Lausanne, Lausanne, Switzerland, Lausanne, Switzerland

Tu-P12-8

Virus-like particle (VLP) mediated Tfh differentiation and antibody responses

YOUN SOO CHOI[1, 2, 4], Yun-Hui Jeon[1], Yoo-Rha Kang[1], Vladimir Temchura[3], Klaus Uberla[3], Shane Crotty[4]

[1]Department of Biomedical Sciences, Seoul National University College of Medicine, Seoul, Korea, Republic of (South), [2]Department of Medicine, Seoul National University College of Medicine, Seoul, Korea, Republic of (South), [3]Institute of Virology, University of Erlangen, Erlangen, Germany, [4]4Division of Vaccine Discovery, La Jolla Institute for Allergy and Immunology, La Jolla, United States

Tu-P12-9

DUSP6 regulates follicular helper T cell differentiation and T cell metabolism via distinct pathways

Ming-Yu Chen, Wei-Chan Hsu, Yu-Wen Su

Immunology Research Center, National Health Research Institutes, Zhunan, Miaoli, Taiwan

Tu-P12-10

IFN-γ producing TH cells and IL-6 signal dependent anti-viral IgA response in lung

Kosuke Miyauchi[1], Masato Kubo[1, 2]

[1]RIKEN Center for Integrative Medical Sciences (IMS), RIKEN Yokohama Institute, Yokohama, Japan, [2]Division of Molecular Pathology, Research Institute for Biomedical Science, Tokyo University of Science, Noda, Japan

Tu-P12-11

Innovative prime-boost vaccine method strongly induces both systemic and mucosal immunity

Kosuke Fujimoto[1, 2], Naoki Takemura[1, 2], Satoshi Uematsu[1, 2]

[1]Department of Mucosal Immunology, School of Medicine, Chiba University, Chiba, Japan, [2]Division of Innate Immune Regulation, International Research and Development Center for Mucosal Vaccines, Institute of Medical Science, Tokyo University, Tokyo, Japan

Tu-P12-12

Analysis of signaling pathways underlying the immunoenhancing effects of a new RNA-based adjuvant

Annett Ziegler[1], Claudia Soldner[1], Julia Spanier[1], Stefan Lienenklaus[2], Thomas Kramps[3, 4], Edith Jasny[3], Regina Heidenreich[3], Karl-Josef Kallen[3, 5], Mariola Forin-Mleczek[3], Ulrich Kalinke[1]

[1]TWINCORE, Centre for Experimental and Clinical Infection Research GmbH Experimental Infection Research, Hannover, Germany, [2]Hannover Medical School Institute for Laboratory Animal Science and Central Animal Facility, Hannover, Germany, [3]CureVac AG, Tübingen, Germany, [4]Boehringer Ingelheim Pharma GmbH & Co. KG, Ingelheim, Germany, [5]eTheRNA immunotherapies NV, Niel, Belgium

Tu-P12-13

Analysis of multifunctionality and metabolism of peripheral blood CD8$^+$ T cells in gastric cancer patients

Yuji Kimura[1], Shingo Eikawa[2], Toshiyoshi Fujiwara[1], Heiichiro Udono[2]

[1]Department of Gastroenterological Surgery, Okayama university graduate school of medicine, Okayama, Japan, [2]Department of immunology, Okayama university graduate school of medicine, Okayama, Japan

Tu-P12-14

Amphiregulin and Inducible Nitric Oxide Synthase Non-redundantly Regulate Butyrate-Induced Enhanced Immunomodulation of Adipose-Derived Stem Cells

Wan-Tseng Hsu[1], Tien-Hsuan Chen[2], Bor-Luen Chiang[2, 3]

[1]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan, [2]Department of Medical Research, National Taiwan University Hospital, Taipei, Taiwan, [3]Graduate Institute of Clinical Medicine, National Taiwan University, Taipei, Taiwan

Tu-P12-15

IL-17A contributes to the decrease of IFN-γ/IL-4 ratio and the persistence of Entamoeba histolytica during intestinal amebiasis

Shinjiro Hamano[1, 2, 9], Sharmina Deloer[1, 2, 9], Risa Nakamura[1, 2, 9], Mihoko Kikuchi[3, 9], Taeko Moriyasu[1, 2, 9], Yombo Dan Justin Kalenda[1, 4, 9], Eman Sayed Mohammed[1, 5, 9], Masachika Senba[6, 9], Yoichiro Iwakura[7], Hiroki Yoshida[8]

[1]Department of Parasitology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan,
[2]Doctoral Leadership Program, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, Japan,
[3]Department of Immunogenetics, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan,
[4]Department of Eco-epidemiology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan,
[5]Department of Parasitology, South Valley University, Egypt., Qena, Egypt,
[6]Department of Pathology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan,
[7]Center for Experimental Animal Models, Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan,
[8]Division of Molecular and Cellular Immunoscience, Department of Biomolecular Sciences, Saga University, Saga, Japan,
[9]The Joint Usage / Research Center on Tropical Disease, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan

Tu-P12-16

Caryophyllene oxide attenuates local and systemic T cell-mediated immune responses in ovalbumin-sensitized BALB/c mouse models

Yin Hua Cheng, Ying Chi Lin, Chun Wei Tung, Chia Chi Wang

Kaohsiung Medical University, Kaohsiung, Taiwan

Tu-P12-17

TCTP-mediated translational control plays a critical role in T cell proliferation and differentiation

Hsin-Fang Yang-Yen[1], Kuang-Hung Lin[1], Yun-Jung Chiang[2], Po-Tsang Lee[1], Jeffrey Jong-Young Yen[2], Kuan-Ming Huang[1], Li-Ying Chen[2], Nan-Shih Liao1, Fang Liao[2]

[1]Institute of Molecular Biology, Academia Sinica, Taipei, Taiwan,
[2]Institute of Biomedical Sciences, Academia Sinica, Taipei, Taiwan

Tu-P12-18

Altered blood cytokines and CD4 T cells in patients with obstructive sleep apnea

Elias Anthony Said

Department of Microbiology and Immunology, College of Medicine and Health Sciences, Sultan Qaboos University, Muscat, Oman

19：10～21：00

Session：Poster Session 14 “Cytokines in cancer development and antitumor immune therapy”

Room: Ishikawa Ongakudō Interchange Hall

Tu-P14-1

Identification of driver proteins for accelerating immune system recovery

Tania Dubovik, Elina Starosvetsky, Shai Shen-Orr, Mayan Levy, Karen Regev Berman

Rappaport Institute of Medical Research, Faculty of Medicine, Technion-Israel Institute of Technology, Haifa, Israel

Tu-P14-2

Context-dependent diverse roles of CCR5-mediated signals in chronic myeloid leukemia (CML) pathogenesis

Tomohisa Baba, Naofumi Mukaida, Yamato Tanabe

Division of Molecular Bioreguration, Cancer Research Institute, Kanazawa University, Kanazawa-shi, Japan

Tu-P14-3

Lentivirus mediated RNA interference of EMMPRIN (CD147) gene inhibits the proliferation, matrigel invasion and tumor formation of breast cancer cells

Xiaoqin Yang, Jing Yang

Department of Breast Surgery, West China Hospital, Sichuan University. China, Chengdu, China

Tu-P14-4

Interleukin-2 inhibits the differentiation of follicular cytotoxic CD8+ T cells during chronic viral infection

Yaping Chen[1, 2], Di Yu[3, 4], Yew Ann Leong[1], Yunbo Wei[4], Hongsheng Ong[3], Hao Wang[3]

[1]School of Biomedical Sciences, Monash University, Melbourne, Australia, [2]Melbourne Centre for Nanofabrication, Melbourne, Australia, [3]John Curtin School of Medical Research, The Australian National University, Canberra, Australia, [4]Shandong Analysis and Test Center, Shandong Academy of science, Shandong, China

Tu-P14-5

Characterization of a novel subset of tissue-resident NKp46pos Vd1 intestinal intraepithelial lymphocytes playing a key role in gut immune homeostasis and in the physiopathology of colon-cancer.

Domenico Mavilio[1, 6], Joanna Mikulak[1, 2], Ferdinando Oriolo[1], Alessandra Roberto[1], Elena Bruni[1], Paolo Tentorio[1], Federico Colombo[3], Michele Carvello[4], Antonino Spinelli[4], Bruno Silva-Santos[5]

[1]Unit of Clinical and Experimental Immunology, Humanitas Clinical and Research Center,, Rozzano, Milan, Italy, [2]Institute of Genetic and Biomedical Research (IRGB), CNR, Milan, Italy, Italy, [3]3Flow Cytometry and Cell Sorting Unit, Humanitas Clinical and Research Center, Rozzano, Milan, Italy, [4]Colon and Rectal Surgery Unit, Humanitas Clinical and Research Center, Rozzano Milan, Italy, [5]Institute of Molecular Medicine, Faculty of Medicine, University of Lisbon, Lisbon, Portugal, 6Department of Medical Biotechnologies and Translational Medicine (BioMeTra), University of Milan, Milan, Italy

Tu-P14-6

NOD1 triggers epithelial intrinsic processing of pro-interleukin-18 to protect the gastric mucosa from pre-cancerous changes induced by chronic *Helicobacter pylori* infection

Le Son Tran[1], Hassan Chaudhry[1], Kimberley D'costa[1], Amanda De Paoli[1], Julia Como[1], Jennifer Dowling[1], Jonathan Ferrand[1], Ashley Mansell[1], Ben A. Croker[2], Ueli Nachbur[2], Seth L. Masters[3], Richard L. Ferrero[1]

[1]Hudson Institute of Medical Research, Monash University, Melbourne, Australia, [2]Boston Children's Hospital, Harvard Medical School, Boston, MA, United States, [3]The Walter and Eliza Hall Institute, Melbourne, Australia

Tu-P14-7

MicroRNAs as modulators of cytokine responses

Iris Behrmann[1], Florence Servais[1], Mélanie Kirchmeyer[1], Petr Nazarov[2], Matthias Glanemann[3], Frank Lammert[4], Claude Haan[1], Stephanie Kreis[1]

[1]University of Luxembourg, Life Sciences Research Unit, Belvaux, Luxembourg, [2]Genomics Research Laboratory, Luxembourg Institute of Health, Luxembourg, Luxembourg, [3]Department of Surgery, Saarland University Medical Center, Homburg, Germany, [4]Department of Medicine II, Saarland University Medical Center, Homburg, Germany

Tu-P14-8

Adult T cell leukemia (ATL) cell-produced brain derived neurotrophic factor (BDNF) induces regulatory T cells and attenuates immune responses.

Yasuhiro Yoshida[1], Yuan Song[1], Duo Wang[1], Tsukasa Nakanishi[1, 2], Junichi Tsukada[2]

[1]Department of Immunology and Parasitology, School of Medicine, University of Occupational and Environmental Health, Japan, Kitakyushu, Japan, [2]Department of Hematology, University of Occupational and Environmental Health, Kitakyushu, Japan, Kitakyushu, Japan

Tu-P14-9

Downregulation of type I interferon receptor within tumors establishes a localized immune privileged niche and attenuates anti-cancer immune therapies

Serge Y. Fuchs

University of Pennsylvania, Philadelphia, United States

Tu-P14-10

A novel endoplasmic reticulum dependent IFN-driven signal transduction pathway is critical for the suppression of tumor growth

Dhan V Kalvakolanu

Greenebaum comprehensive cancer center, Department of Microbiology & Immunology, University of Maryland School of Medicine, Baltimore, United States

Tu-P14-11

Treatment with heterodimeric IL-15 promotes effector T cell infiltration into several tumor types

Cristina Bergamaschi[1], Konstantinos Dimas[2], Bethany Nagy[1, 2], Shawn M. Jensen[3], Bernard A. Fox[3], Barbara K. Felber[1], George N. Pavlakis[2]

[1]Human Retrovirus Pathogenesis Section, Vaccine Branch, Center for Cancer Research, National Cancer Institute at Frederick, Frederick, United States, [2]Human Retrovirus Section, Vaccine Branch, Center for Cancer Research, National Cancer Institute at Frederick, Frederick, United States, [3]Robert W Franz Cancer Research Center, Earle A Chiles Research Institute, Providence Cancer Center, Providence Portland Medical Center, Providence, United States

Tu-P14-12

Exosomal NAP1 derived from oral cancer cells enhances the cytotoxicities of NK cells

Wantao Chen[1, 2], Yingnan Wang[1, 2], Jianjun Zhang[1, 2], Xing Qin[1, 2]

[1]Department of Oral and Maxillofacial-Head and Neck Oncology and Faculty of Oral and Maxillofacial Surgery, Ninth People's Hospital, Shanghai Jiao Tong University School of Medicine, Shanghai, China, [2]Shanghai Key Laboratory of Stomatology and Shanghai Research Institute of Stomatology, Shanghai, China

Tu-P14-14

Targeting the IL-7R pathway in leukemia

Scott Durum[1], Julie Hixon[1], Emilee Senkevitch[1], Sarah Cramer[1], Joao Barata[2], Scott Walsh[1], Wenqing Li[1]

[1]National Cancer Institute, National Instiutes of Health, Frederick MD, United States, [2]University of Lisbon, Lisbon, Portugal

Tu-P14-15

In-vitro production of VEGF from bone marrow separated CD38+ and CD38- cells in multiple myeloma patients

Vladimir Jurisic[1], Katarina Mirjacic-Martinovic[2], Ana Radovanovic[2], Tatjana Srdic-Rajic[2], Olivera Markovic[3], Milica Radojkovic[4], Gordana Konjevic[2]

[1]University of Kragujevac, Faculty of Medical Sciences,, Kragujevac, Serbia, [2]Institute of Oncology and Radiology, Belgrade, Serbia, Belgrade, Serbia, [3]Clinical Hospital Center "Bezanijska kosa", Belgrade, Serbia, Belgrade, Serbia, [4]Department of Haematology, Clinical Hospital Centre Dragisa Misovic, Belgrade, Serbi, Belgrade, Serbia

Tu-P14-16

Loss of p53 unleashes STAT2 to acquire oncogenic activity to promote migration and invasion of colon tumor cells

Ana Gamero, Kevin P Kotredes, Sruthi Gohimukkula, Aliza Abezis, Alexandra Afanassiev

Temple University Department of Medical Genetics & Molecular Biochemistry, Philadelphia, United States

Tu-P14-17

Targeting the BAFF receptor TACI in Chronic Lymphocyte Leukemia

Beatriz Garcillan[1], William Figgett[1], Saulep-Easton Damien[2], Carlo Croce[3], Constantine Tam[4], Fabienne Mackay[1]

[1]Department of Microbiology & Immunology School of Biomedical Sciences University of Melbourne, Parkville, Australia, [2]Department of Immunology Monash University, Prahran, Australia, [3]Department of Molecular Virology, Immunology and Medical Genetics The Ohio State University, Columbus, United States, [4]Department of Haematology Peter MacCallum Cancer Centre Victorian Co-operative Cancer Centre, Parkville, Australia

Tu-P14-18

5-fluorouracil-induced neutrophilic chemokine expression in tumor cells is associated with accelerated lung metastasis of breast cancer

Soichiro Sasaki, Tomohisa Baba, Naofumi Mukaida

Div. Molec. Bioregulation, Cancer Res. Inst., Kanazawa Univ., Kanazawa, Ishikawa, Japan

Tu-P14-19

NK cells control tumor-promoting function of neutrophils

Keisuke Ogura[1], Marimo Sato-Matsushita[2], Takashi Hori[3], Yoichiro Iwakura[4], Hideaki Tahara[2], Ikuo Saiki[1], Yoshihiro Hayakawa[1]

[1]Division of Pathogenic Biochemistry, Department of Bioscience, Institute of Natural Medicine, University of Toyama, Toyama, Japan, [2]Department of Surgery and Bioengineering, Institute of Medical Science, University of Tokyo, Tokyo, Japan, [3]Department of Diagnostic Pathology, Toyama University Hospital, Toyama, Japan, [4]Center for Animal Disease Models, Research Institute for Biomedical Sciences, Tokyo University of Science, Chiba, Japan

Tu-P14-20

Low-dose HMGN1 synergistically enhances anti-tumor immunity in CD4 depleting antibody-treated mice

Chang-Yu Chen, Satoshi Ueha, Shoji Yokochi, Yoshiro Ishiwata, Haru Ogiwara, Shungo Deshimaru, Kouji Matsushima

Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

Tu-P14-21

The role of tumor cell-derived granulocyte-macrophage colony-stimulating factor (GM-CSF) in the progression of 4T1 murine breast cancer

Teizo Yoshimura, Kaoru Nakamura, Chunning Li, Miwa Sato, Akihiro Matsukawa, Masayoshi Fujisawa

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

Tu-P14-22

The characteristics of cancer stroma in the development of scirrhous gastric cancer.

Kazuo YASUMOTO[1], Atsuhiro KAWASHIMA[2]

[1]Dept. of Medical Oncology, Kanazawa Medical University, Kanazawa, Japan,
[2]Dept. of clinical Laboratory Kanazawa Medical Center, Kanazawa, Japan

Tu-P14-23

Prostate cancer progression mechanism via CCL5 within microenvironment of prostate cancer bone metastasis

Satoko Urata, Kouji Izumi, Atsushi Mizokami

Department of Integrative Cancer Therapy and Urology Kanazawa University Graduate School of Medical Science, Kanazawa, Japan

Tu-P14-24

Plasmacytoid dendritic cells involve the effect of endocrine disruptor Nonylphenol on endometriosis in murine models

Pooja Sharma[1], Yu Chang[1, 2], Eing-Mei Tsai[1, 3], Jau-Ling Suen[1]

[1]Graduate Institute of Medicine,College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan,
[2]Department of Obstetrics and Gynecology, E-Da Hospital, Kaohsiung, Taiwan,
[3]Department of Obstetrics and Gynecology, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan

Tu-P14-25

The effect of AGP on tumor proliferation via macrophage activation

Yukio Fujiwara, Chang Pan, Yoshihiro Komohara, Motohiro Takeya

Department of Cell Pathology, Graduate School of Medical Sciences, Kumamoto University, Kumamoto, Japan

Tu-P14-26

Interleukin 1 receptor antagonist (IL-1RA) expression is progressively lost in oral dysplasia and oral squamous cell carcinoma but the phenotypic consequences are not clear

Sven Niklander[1, 2], Hannah Crane[1], Dan Lambert[1], Keith Hunter[1]

[1]Unit of Oral and Maxillofacial Pathology, School of Clinical Dentistry, University of Sheffield., Sheffield, United Kingdom, [2]Department of Oral Pathology and Oral Surgery, Dentistry Faculty, Universidad Andres Bello, Viña del Mar, Chile

Tu-P14-27

A critical role of IL-27 in controlling tumor-associated regulatory T cells

Yeonseok Chung[1, 2], Young Jun Park[1, 2]

[1]Laboratory of Immune Regulation, College of Pharmacy, Seoul National University., Seoul, Korea, Republic of (South), [2]BK21 Plus program, Seoul, Korea, Republic of (South)

Tu-P14-28

gamma-Aminobutyric acid alleviates progression of renal inflammation and injury in the *Vhlh* gene-knockout mice

Hsun-Yi Huang[1], Tien Hsu[2], Bi-Fong Lin[1]

[1]Department of Biochemical Science and Technology, College of Life Science, National Taiwan University, Taipei, Taiwan, [2]Department of Biochemical Sciences and Engineering, National Central University, Taoyuan, Taiwan

Tu-P14-29

Robust synergy in the anti-tumor effects of a systemically administered low dose of the alarmin HMGN1 and anti-PD-L1 antibodies

Shoji Yokochi, Yoshiro Ishiwara, Chang-Yu Chen, Satoshi Ueha, Satoru Ito, Kouji Matsushima

Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan

Tu-P14-30

A pivotal region for FROUNT-mediated chemotactic signaling that is shared by inflammatory chemokine receptors CCR2 and CCR5

Etsuko Toda[1], Yuya Terashima[1], Sosuke Yoshinaga[2], Hiroaki Terasawa[2], Kouji Matsushima[1]

[1]Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Bunkyo-ku, Japan, [2]Department of Structural BioImaging, Faculty of Life Sciences, Kumamoto University, Kumamoto, Japan

Tu-P14-31

FROUNT is a novel target to control chemotactic response of tumor-associated macrophage

Yuya Terashima[1], Etsuko Toda[1], Meiji Itakura[2], Kazuhiro Okumura[3], Hiroki Nagase[3], Kouji Matsushima[1]

[1]Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Japan, Bunkyo-ku, Japan, [2]Department of Thoracic Disease, Chiba Cancer Center, Chiba, Japan, [3]Chiba Cancer Center Research Institute, Chiba, Japan

Tu-P14-32

Analysis of overlapping CD8$^+$ T cell clonotypes between organs reveals changes in the T cell receptor repertoire after anti-CD4 antibody cancer immunotherapy

Hiroyasu Aoki[1], Satoshi Ueha[1], Shigeyuki Shichino[1], Haru Ogiwara[1], Shinichi Hashimoto[1, 2], Kazuhiro Kakimi[3], Satoru Ito[4], Kouji Matsushima[1]

[1]Department of Molecular Preventive Medicine, Graduate School of Medicine, The University of Tokyo, Tokyo, Japan, [2]Department of Laboratory Medicine, Kanazawa University, Ishikawa, Japan, [3]Department of Immunotherapeutics, The University of Tokyo Hospital, Tokyo, Japan, [4]IDAC Theranostics, Inc., Tokyo, Japan

Tu-P14-33

Aspirin ameliorates inflammatory microenvironment by breaking the crosstalk between macrophages and breast cancer cells

Chia-Chien Hsieh, Chih-Hsuan Wang

Nutritional Science and Education, Department of Human Development and Family Studies, National Taiwan Normal University, Taipei, Taiwan

Tu-P14-34

Inhibition of Nr4a receptors breaks Treg-mediated suppression of anti-tumor immunity

Sana Hibino, Akihiko Yoshimura

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

Tu-P14-35

Epithelial-mesenchymal transition retards IFN-γ signaling in epithelial cancers

Po-Chun Tseng[1], Chia-Ling Chen[2], Cheng-Chieh Tsai[3], Chiou-Feng Lin[1, 4]

[1]Department of Microbiology and Immunology, School of Medicine, College of Medicine, Taipei Medical University, Taipei, Taiwan, [2]Translational Research Center, Taipei Medical University, Taipei, Taiwan, [3]Department of Nursing, Chung Hwa University of Medical Technology, Tainan, Taiwan, [4]Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taipei, Taiwan

Tu-P14-36

Induction of chemokines and chemokine receptor of glioblastoma infected with HCMV

Masaya Takemoto[1], Hidetaka Sadanari[1], Tohru Daikoku[1], Naofumi Mukaida[2], Tsugiya Murayama[1]

[1]Faculty of Pharmaceutical Sciences, Hokuriku University, Kanazawa, Japan, [2]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

Tu-P14-37

Antitumor effect of trsan-scirpusin A in colorectal cancer cells

Eun Hye Hong, Jea-Hee Ahn, Jae-Won Jo, Hyun-Jeong Ko

kangwon university, Chuncheon-si, Korea, Republic of (South)

Tu-P14-38

TGFβ3-mediated induction of Periostin facilitates head and neck cancer growth and metastasis

Xing Qin[1], Ming Yan[1], Jianjun Zhang[1], Wantao Chen[1, 2]

[1]Department of Oral and Maxillofacial-Head & Neck Oncology and Faculty of Oral and Maxillofacial Surgery, Ninth People's Hospital,Shanghai Jiao Tong University School of Medicine,639, Zhizaoju Road, Shanghai 200011, China, Shanghai, China, China, [2]Shanghai Key Laboratory of Stomatology and Shanghai Research Institute of Stomatology, Shanghai, 200011, PR China., Shanghai, China, China

Tu-P14-39

Characterizing the role of IRF8 in Chronic Myelogenous Leukemia Rho-Gef domain variants

Amy Michelle Pitler, Tinghui Hu, Bryan Ciccarelli, Ian P Whitehead

Department of Microbiology & Molecular Genetics, Rutgers University New Jersey Medical School, Newark, NJ, United States

Tu-P14-40

Rb inactivation enhances tumor progression by elevating CCL2 expression.

Fengkai Li[1], Shunsuke Kitajima[1, 2], Naofumi Mukaida[3], Chiaki Takahashi[1]

[1]Division of Oncology and Molecular Biology, Cancer Research Institute, Kanazawa University, Kanazawa, Japan, [2]Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, United States, [3]Division of Molecular Bioregulation, Cancer Research Institute, Kanazawa University, Kanazawa, Japan

Tu-P14-41

Ganoderma formosanum polysaccharides enhance antitumor immune responses and downregulate myeloid-derived suppressor cells in mice bearing CT26 colon adenocacinoma cells

Jhe-Yu Yang, Chun-Jen Chen

Department of Biochemical Science and Technology, National Taiwan University, Taipei, Taiwan

Tu-P14-42

Niclosamide is a poptential therapeutics for familial adenomatosis polyposis by disrupting Axin-GSK3 interaction

Sung Yong Ahn[1, 2], Nam Hee Kim[1], Kyungro Lee[3, 4], Yong Hoon Cha[1], Ji Hye Yang[1], So Young Cha[1], Eunae Sandra Cho[1], Yoonmi Lee[1], Hyun Soo Cho[4], Yoon Jeon[4], Young Su Yuk[1], Kyoung Tai No[3, 4], Hyun Sil Kim[1], Ho Lee[5], Jiwon Choi[3], Jong In Yook[1]

[1]Department of Oral Pathology, Oral Cancer Research Institute, Yonsei University College of Dentistry, Seoul, Korea, Republic of (South), [2]Department of Anatomy, Yonsei University College of Medicine, Seoul, Korea, Republic of (South), [3]Bioinformatics and molecular Design Research Center, Yonsei University, Seoul, Korea, Republic of (South), [4]Department of Systems Biology and Division of Life Science, Yonsei University, Seoul, Korea, Republic of (South), [5]Graduate School of Cancer Science and Policy, Research Institute, National Cancer Center, Seoul, Korea, Republic of (South)

Tu-P14-43

Glial galectin-9 plays a novel role in hypoxic tumor environment

Chi Young Chang[1], Seungtae Baek[1, 3], Hyung-Seok Kim[1], Sae-Bom Jeon[1], Randall S. Johnson[2], Eun Jung Park[1, 3]

[1]Immunotherapeutic Branch, National Cancer Center, Goyang, Korea, Republic of (South), [2]Department of Physiology, Development and Neuroscience, University of Cambridge, CB2 [3]EG Cambridge, United Kingdom, 3Department of Cancer Biomedical Science, National Cancer Center Graduate School of Cancer Science and Policy, Goyang, Korea, Republic of (South)

Abstract Supplements

Tu-S2-5

An inflammatory cellular cascade of autoimmune Th17 cells, GM-CSF-producing synovial ILCs and stromal cells in autoimmune arthritis

Shimon Sakaguchi[1], Keiji Hirota[2]

[1]*Osaka University, Immunology Frontier Research Center, Osaka, Japan,*

[2]*Kyoto University, Institute for Frontier Life and Medical Sciences, Kyoto, Japan*

Despite the key rolesimportance of Th17 cells in autoimmune diseases, it remains unclear how they control tissue-residentother inflammatory cells in autoimmune tissue damage. Using a mouse model (SKG mice) of spontaneous Th17 cell-mediated autoimmune arthritis, we showed that arthritogenic IL-17-producing Th17 cells stimulated fibroblast-like synoviocytes (FLS) via IL-17 to secrete GM-CSF and also expanded synovial resident innate lymphoid cells (ILCs) in inflamed joints. Activated synovial ILCs, which expressed CD25, IL-33Ra, and TLR9, produced abundant GM-CSF upon stimulation by IL-2, IL-33, or CpG DNA. Loss of GM-CSF production by either ILCs or radio-resistant stromal cells such as FLS prevented Th17 cell-mediated arthritis. In contrast, GM-CSF production by Th17 cells was not mandatory. Together with the presence of GM-CSF-producing ILCs in inflamed joints of rheumatoid arthritis patients, these results indicate that a cellular cascade of autoimmune IL-17-producing Th17, ILCs and non-lymphoid stromal cells, via IL-17 and GM-CSF, mediates chronic joint inflammation and can be a target for therapeutic intervention.

We-S3-2

Type I interferons in pregnancy

Akiko Iwasaki

Yale University School of Medicine and Howard Hughes Medical Institute, New Haven, CT, United States

Zika virus (ZIKV) infection during pregnancy is associated with adverse fetal outcomes including microcephaly, growth restriction, and fetal demise. While ZIKV is primarily transmitted by the mosquito, Aedes Aegypti, it can also be sexually transmitted. Type I interferons (IFNs) are essential for host resistance against ZIKV, and most mouse models of ZIKV infection require attenuation of the IFN-α/β receptor (IFNAR) signaling pathway. Severe fetal growth restriction with placental damage or fetal resorption have been demonstrated after infection of type I IFN receptor knockout (Ifnar1-/-) females mice crossed to wild-type males. Within this context, all fetuses have functional type I IFN signaling, as they are Ifnar1 heterozygotes (Ifnar1+/-). In order to investigate the role of IFNAR in controlling ZIKV infection and disease in the developing fetus, we challenged Ifnar1-/- dams mated with Ifnar1+/- sires, resulting in pregnant dams that carry a mixture of fetuses that either expressed IFNAR (Ifnar1+/-) or did not (Ifnar1-/-) within the same uterus. Unexpectedly, we found that only Ifnar1+/- fetuses were resorbed after ZIKV infection during early pregnancy, whereas their Ifnar1-/- littermates continue to develop normally. Analyses of the fetus and placenta revealed that type I IFNs inhibit proper development of the placental labyrinth. Our results implicate type I IFNs as a possible mediator of pregnancy complications, including spontaneous abortions and growth restrictions in the context of viral infections.

第46回

日本免疫学会学術集会

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2017年 登録期間

演題登録（オンライン登録のみ）予定

6月9日(金)〜7月14日(金)

事前参加登録（オンライン登録のみ）予定

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SAA	届出番号：09A2X10001000022 アミロイドA蛋白キット **LZテスト ‘栄研’ SAA**	5～500μg/mL	測定レンジがよりワイドになりました。 プロゾーンにより強い試薬となりました。
RF	認証番号：219AAAMX00204000 リウマチ因子キット **LZテスト ‘栄研’ RF**	5.0～500.0IU/mL	測定レンジが広く、日常検査に適した 試薬です。
MMP-3	認証番号：223AAAMX00051000 マトリックスメタロプロテイナーゼ-3キット **LZテスト ‘栄研’ MMP-3**	10.0～1,200.0ng/mL	試薬安定性が良好で、精度良い測定が 可能です。
KL-6	認証番号：227AAEZX00107000 シアル化糖鎖抗原KL-6キット **LZテスト ‘栄研’ KL-6**	50～6000U/mL	幅広い測定レンジにおける精度良い 測定が可能です。
ASO	承認番号：20400AMZ00931000 抗ストレプトリジンOキット **LZテスト ‘栄研’ ASO**	10～1,000IU/mL	多点液状標準により幅広い測定レンジを 確保しています。
FER	届出番号：09A2X10001000021 フェリチンキット **LZテスト ‘栄研’ FER**	5～1,000ng/mL	高感度測定系で、かつプロゾーンにも 強い設計です。
Cys-C	認証番号：218AAAMX00187000 シスタチンCキット **LZテスト ‘栄研’ シスタチンC**	0.1～8.1mg/L	高感度で測定レンジも広く、日常検査に 適した試薬です。
β_2-m	承認番号：20500AMZ00522000 ベータ2-マイクログロブリンキット **LZテスト ‘栄研’ β_2-M**	血清及び血漿：0.25～60mg/L 尿：0.05～12mg/L	無希釈で測定でき、広い測定レンジを 有しています。
α_1-M	承認番号：21800AMX10400000 アルファ1-マイクログロブリンキット **LZテスト ‘栄研’ α_1-M**	血清及び血漿：1.2～180mg/L 尿：0.4～60mg/L	測定レンジが広く、試薬安定性も 良好です。
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	承認番号：21400AMZ00660000 ペプシノーゲンキット **LZテスト ‘栄研’ ペプシノゲンⅡ**	1～100ng/mL	
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発売元（資料請求先）
田辺三菱製薬株式会社
大阪市中央区道修町3-2-10

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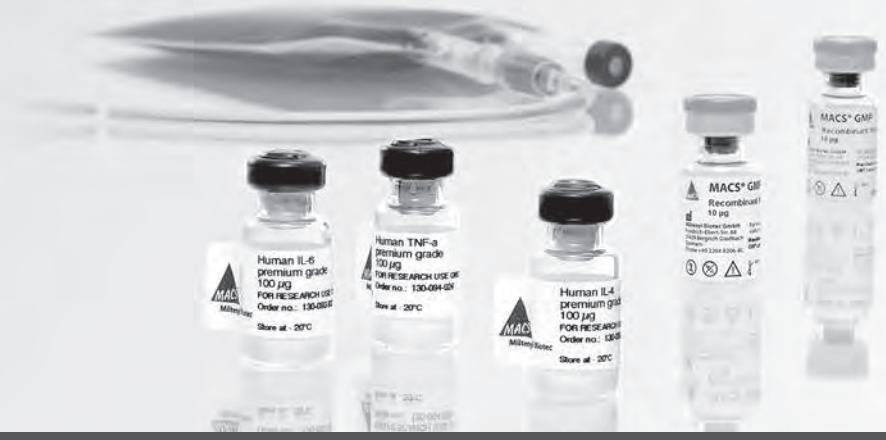

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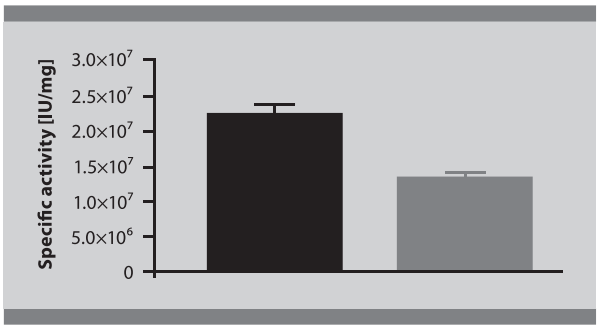

Figure 1: Human GM-CSF biological activity varies between vendors. Miltenyi Biotec's Human GM-CSF, premium grade (black bar) shows higher specific activity than another commercially available product (gray bar) when performing a calibrated proliferation assay using TF-1 cells (NIBSC 88/646).

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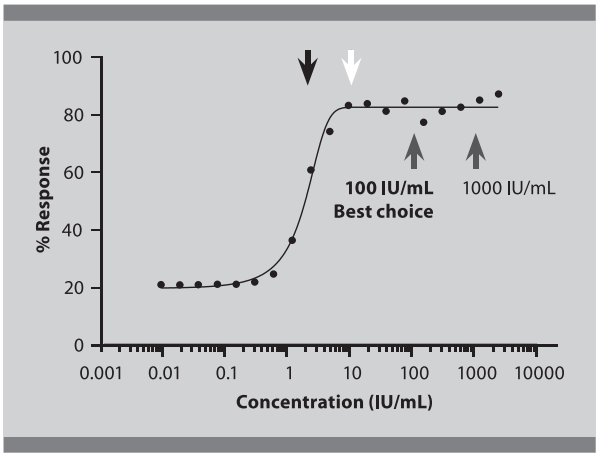

Figure 2: Efficient cytokine usage with specific unit-dosing. Gray arrows indicate concentration of cytokine input to reach maximum cellular response. Identical activity can be reached with cytokine concentrations of 100 IU/mL and 1000 IU/mL. Black and white arrows indicate insufficient cytokine input.

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1. 慎重投与(次の患者には慎重に投与すること)

(1)心不全(NYHA心機能分類IV)のある患者〔使用経験がなく安全性が確立していない。〕
(2)他の糖尿病用薬(特に、インスリン製剤、スルホニルウレア剤又は速効型インスリン分泌促進薬)を投与中の患者〔併用により低血糖を起こすおそれがある。(「重要な基本的注意」、「相互作用」、「重大な副作用」の項参照)〕(3)次に掲げる患者又は状態(低血糖を起こすおそれがある。) 1)脳下垂体機能不全又は副腎機能不全 2)栄養不良状態、飢餓状態、不規則な食事摂取、食事摂取量の不足又は衰弱状態 3)激しい筋肉運動 4)過度のアルコール摂取者 (4)脱水を起こしやすい患者(血糖コントロールが極めて不良の患者、高齢者、利尿剤併用患者等)(本剤の利尿作用により脱水を起こすおそれがある。(「重要な基本的注意」、「相互作用」、「重大な副作用」、添付文書の「高齢者への投与」の項参照)) (5)中等度腎機能障害患者(「重要な基本的注意(2)及び(10)」、添付文書の「薬物動態」の項参照) (6)尿路感染、性器感染のある患者(症状を悪化させるおそれがある。(「重要な基本的注意」の項参照))

2. 重要な基本的注意

(1)本剤の使用にあたっては、患者に対し低血糖症状及びその対処方法について十分説明すること。特に、インスリン製剤、スルホニルウレア剤又は速効型インスリン分泌促進薬と併用する場合、低血糖のリスクが増加するおそれがある。インスリン製剤、スルホニルウレア剤又は速効型インスリン分泌促進薬による低血糖のリスクを軽減するため、これらの薬剤と併用する場合には、これらの薬剤の減量を検討すること。(「慎重投与」、「相互作用」、「重大な副作用」の項参照) (2)本剤の利尿作用により多尿・頻尿がみられることがある。また、体液量が減少することがあるので、適度な水分補給を行うよう指導し、観察を十分行うこと。脱水、血圧低下等の異常が認められた場合は、休薬や補液等の適切な処置を行うこと。特に体液量減少を起こしやすい患者(高齢者、腎機能障害患者、利尿薬併用患者等)においては、脱水や糖尿病性ケトアシドーシス、高浸透圧高血糖症候群、脳梗塞を含む血栓・塞栓症等の発現に注意すること。(「慎重投与」、「相互作用」、「重大な副作用」、添付文書の「その他の副作用」、「高齢者への投与」の項参照) (3)尿路感染を起こし、腎盂腎炎、敗血症等の重篤な感染症に至ることがある。また、腟カンジダ症等の性器感染を起こすことがある。十分な観察を行うなど尿路感染及び性器感染の発症に注意し、発症した場合には適切な処置を行うとともに、状態に応じて休薬等を考慮すること。尿路感染及び性器感染の症状及びその対処方法について患者に説明すること。(「慎重投与」、「重大な副作用」、添付文書の「その他の副作用」の項参照) (4)糖尿病の診断が確立した患者に対してのみ適用を考慮すること。糖尿病以外にも耐糖能異常・尿糖陽性等、糖尿病類似の症状(腎性糖尿、甲状腺機能異常等)を有する疾患があることに留意すること。(5)本剤の適用はあらかじめ糖尿病治療の基本である食事療法、運動療法を十分に行ったうえで効果が不十分な場合に限り考慮すること。(6)本剤投与中は、血糖を定期的に検査し、薬剤の効果を確かめ、本剤を3ヵ月投与しても効果が不十分な場合には他の治療法への変更を考慮すること。(7)投与の継続中に、投与の必要がなくなる場合があり、また、患者の不養生、感染症の合併等により効果がなくなったり、不十分となる場合があるので、食事摂取量、血糖値、感染症の有無等に留意の上、常に投与継続の可否、薬剤の選択等に注意すること。(8)高度肝機能障害を有する患者について、使用経験がなく安全性は確立していない。(9)本剤とインスリン製剤又はGLP-1受容体作動薬との併用における有効性及び安全性は検討されていない。(10)本剤投与により、血清クレアチニンの上昇又はeGFRの低下がみられることがあるので、腎機能を定期的に検査すること。腎機能障害患者においては経過を十分に観察し、継続的にeGFRが45mL/min/1.73m^{2}未満に低下した場合は投与の中止を検討すること。(「慎重投与」、添付文書の「その他の副作用」の項参照) (11) 本剤の作用機序である尿中グルコース排泄促進作用により、血糖コントロールが良好であっても脂肪酸代謝が亢進し、ケトーシスがあらわれ、ケトアシドーシスに至ることがある。著しい血糖の上昇を伴わない場合があるため、以下の点に留意すること。(「重大な副作用」、添付文書の「その他の副作用」の項参照)

1)悪心・嘔吐、食欲減退、腹痛、過度な口渇、倦怠感、呼吸困難、意識障害等の症状が認められた場合には、血中又は尿中ケトン体測定を含む検査を実施すること。異常が認められた場合には投与を中止し、適切な処置を行うこと。
2)特に、インスリン分泌能の低下、インスリン製剤の減量や中止、過度な糖質摂取制限、食事摂取不良、感染症、脱水を伴う場合にはケトアシドーシスを発現しやすいので、観察を十分に行うこと。
3)患者に対し、ケトアシドーシスの症状(悪心・嘔吐、食欲減退、腹痛、過度な口渇、倦怠感、呼吸困難、意識障害等)について説明するとともに、これらの症状が認められた場合には直ちに医療機関を受診するよう指導すること。(12)排尿困難、無尿、乏尿あるいは尿閉の症状を呈する患者においては、その治療を優先するとともに他剤での治療を考慮すること。(13)本剤投与による体重減少が報告されているため、過度の体重減少に注意すること。(14)低血糖症状を起こすことがあるので、高所作業、自動車の運転等に従事している患者に投与するときは注意すること。(「重大な副作用」の項参照)

3. 相互作用

本剤は、主としてUGT1A9及びUGT2B4により代謝され、未変化体の尿中排泄率は1%未満であった。本剤はP-糖蛋白質、多剤耐性関連蛋白質2及び乳がん耐性蛋白質の基質であり、P-糖蛋白質及び多剤耐性関連蛋白質2に対して弱い阻害作用を有する。(添付文書の「薬物動態」の項参照)

併用注意(併用に注意すること)

糖尿病用薬(スルホニルウレア剤、速効型インスリン分泌促進薬、α-グルコシダーゼ阻害薬、ビグアナイド系薬剤、チアゾリジン系薬剤、DPP-4阻害薬、GLP-1受容体作動薬、インスリン製剤等) 血糖降下作用を増強する薬剤(β-遮断剤、サリチル酸剤、モノアミン酸化酵素阻害剤等) 血糖降下作用を減弱する薬剤(アドレナリン、副腎皮質ホルモン、甲状腺ホルモン等) ジゴキシン リファンピシン、フェニトイン、フェノバルビタール、リトナビル等 **利尿作用を有する薬剤(ループ利尿薬、サイアザイド系利尿薬等)**

4. 副作用

国内第II相用量設定試験及び第III相試験において、1629例中474例(29.1%)953件の副作用(臨床検査値の異常も含む)が認められた。主な副作用は、無症候性低血糖、低血糖症、頻尿、血中ケトン体増加、便秘等であった。(承認時)

(1)重大な副作用

1)**低血糖**:他の糖尿病用薬との併用で低血糖があらわれることがある。また、海外の臨床試験において、インスリン製剤との併用で低血糖が報告されている。特に、インスリン製剤、スルホニルウレア剤又は速効型インスリン分泌促進薬と併用する場合、低血糖のリスクが増加するおそれがあることから、これらの薬剤の減量を検討すること。また、他の糖尿病用薬を併用しない場合でも低血糖が報告されている。低血糖症状が認められた場合には、糖質を含む食品を摂取するなど適切な処置を行うこと。(「慎重投与」、「重要な基本的注意(1)」、「相互作用」、添付文書の「臨床成績」の項参照)
2)**脱水**(0.1%):脱水があらわれることがあるので、適度な水分補給を行うよう指導し、観察を十分に行うこと。口渇、多尿、頻尿、血圧低下等の症状があらわれ脱水が疑われる場合には、休薬や補液等の適切な処置を行うこと。脱水に引き続き脳梗塞を含む血栓・塞栓症等を発現した例が報告されているので、十分注意すること。(「慎重投与」、「重要な基本的注意」、「相互作用」、添付文書の「高齢者への投与」の項参照)
3)**ケトアシドーシス**(頻度不明):ケトアシドーシス(糖尿病性ケトアシドーシスを含む)があらわれることがあるので、観察を十分に行い、異常が認められた場合には投与を中止し、適切な処置を行うこと。(「重要な基本的注意」の項参照)
4)**腎盂腎炎**(0.1%)、**敗血症**:腎盂腎炎があらわれ、敗血症(敗血症性ショックを含む)に至ることがあるので、観察を十分に行い、異常が認められた場合には投与を中止し、適切な処置を行うこと。(「重要な基本的注意(3)」の項参照)

●その他の使用上の注意等については、添付文書をご参照ください。
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2016年4月作成

KEYENCE

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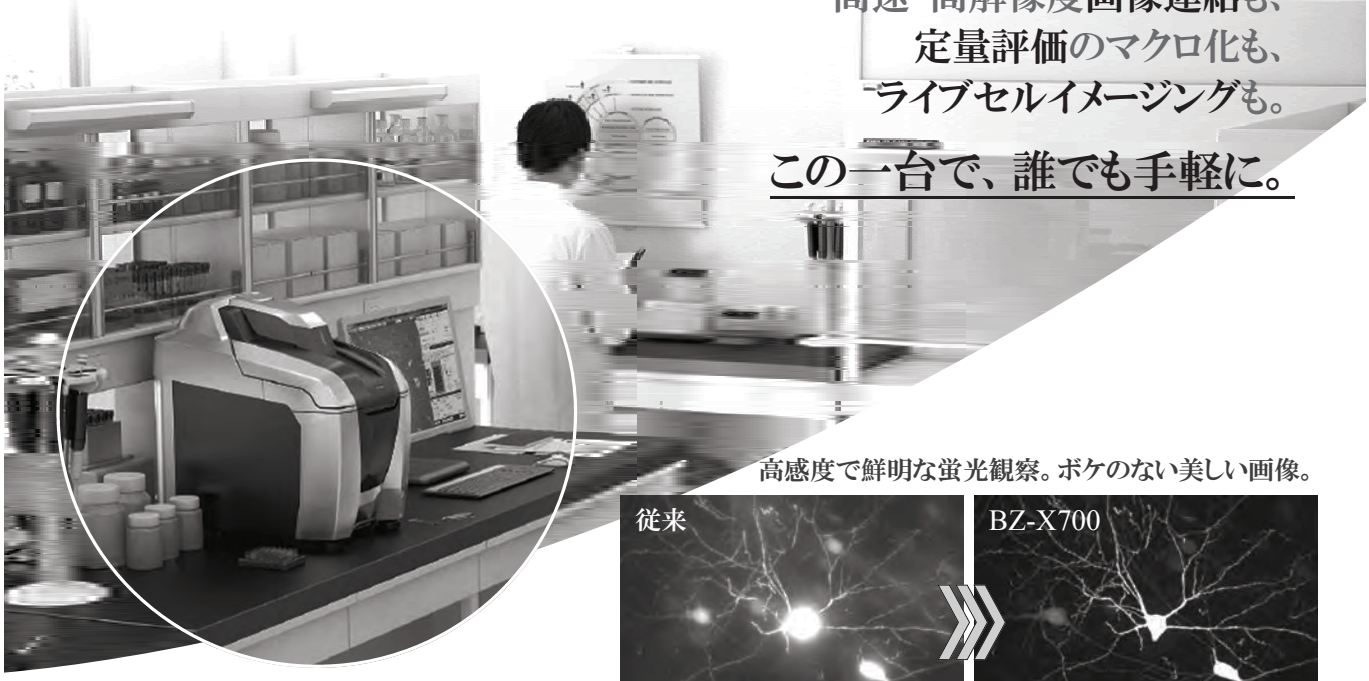

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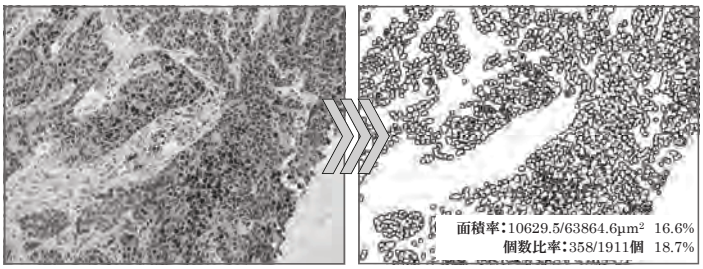

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