

PROGRAM

MONDAY, September 10—7:00 PM

SESSION 1 KEYNOTE SPEAKERS

Chairperson: **Xuetao Cao**, Nankai University, Tianjin, China

A novel cytokine-controlled immune checkpoint in chronic lymphocytic leukaemia

B Garcillan, Saulep D. Easton, W Figgitt, M Le Page, A Wei, SB Ting, C Tam, Fabienne Mackay [30'+10']

Presenter affiliation: University of Melbourne, Melbourne, Australia; Alfred Medical Research and Education Precinct (AMREP), Melbourne, Australia. 1

Natural killer cells and missing-self

Wayne M. Yokoyama, Michael D. Bern, Bijal A. Parikh [30'+10']

Presenter affiliation: Washington University School of Medicine, St. Louis, Missouri. 2

TUESDAY, September 11—9:00 AM

SESSION 2 NEW SILK ROAD NETWORK OF IMMUNOLOGY

Chairperson: **Tadatsugu Taniguchi**, University of Tokyo, Japan

HMGB1 and other DAMPs in the regulation of inflammation and tumor immune microenvironment

Tadatsugu Taniguchi [20'+10']

Presenter affiliation: Institute of Industrial Science, The University of Tokyo, Tokyo, Japan. 3

A β -catenin/NF-kBp65/TCF-4 signaling axis for the production of IL-6 in macrophage

Soung-Hoo Jeon, Sung Ji Hong, Seok-Joo Lee, So-Hee Hong, Chung-Gyu Park [20'+10']

Presenter affiliation: Seoul National University College of Medicine, Seoul, South Korea. 4

Regulation of inflammatory responses

Chen Dong [20'+10']

Presenter affiliation: Tsinghua University Institute for Immunology, Beijing, China.

Nucleic acid sensing in SLE

Anna-Marie Fairhurst [20'+10']

Presenter affiliation: ASTAR Research Entities, Singapore.

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Developing country immune ecologies—Lessons from the neonatal human leucocyte phenotype

Satyajit Rath [20'+10']

Presenter affiliation: Indian Institute of Science Education and Research, Pune, India.

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The intracellular pyrimidine 5'-nucleotidase NT5C3 is a negative epigenetic factor for cytokine response

Khalid S. Khabar [20'+10']

Presenter affiliation: King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia.

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Evolution of thymopoietic environments

Thomas Boehm, Jeremy Swann, Anja Nusser [20'+10']

Presenter affiliation: Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany.

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TUESDAY, September 11—2:00 PM

SESSION 3 POSTER SESSION

Protective role of type 1 interferon in Mycobacterium abscessus lung infection

Jae-Hun Ahn, Jun-Young Lee, Ji-Yeon Park, Ah-Ra Jang, Joo-Hee Choi, Min-Jung Kang, Jong-Hwan Park

Presenter affiliation: Chonnam National University, Gwangju, South Korea.

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The microenvironment of pancreatic ductal adenocarcinoma

Hao Chen, Junya Peng, Dan Huang, Xiaogang Li, Lulu Liu

Presenter affiliation: Peking Union Medical College Hospital, Beijing, China.

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Regulation of PTX3 expression and secretion by autophagy in Innate immunity <u>Jae-Sung Kim</u> , Chul-Su Yang Presenter affiliation: Hanyang university, Seoul, South Korea; Hanyang university, Ansan, South Korea.	11
Roles of the <i>Mycobacterium tuberculosis</i> antigen 85 in Toll-like receptor pathway <u>Ye Ram Kim</u> , Chul-Su Yang Presenter affiliation: Hanyang University, Seoul, South Korea.	12
The research of pancreatic cancer microenvironment <u>Xiaogang Li</u> , Junya Peng, Lulu Liu, Dan Huang, Hao Chen Presenter affiliation: Peking Union Medical College Hospital, Beijing, China.	13
Asperosaponin VI protects bone structure from destruction in collagen induced arthritis by inhibiting osteoclastogenesis <u>Kaifei Liu</u> , Yanting Xu, Ying Liu, Jiaqi Zeng, Kutty Selva Nandakumar, Chun Zhou Presenter affiliation: Southern Medical University, Guangzhou, China.	14
Enhancement of the immunogenicity of dengue subunit vaccine by PLGA microparticle formulation <u>Chien-Hsiung Pan</u> , Jia-Ying Yen Presenter affiliation: National Health Research Institutes, Zhunan Town, Miaoli County, Taiwan.	15
T cell receptor repertoire analyses in knee osteoarthritis patients Thitiya Sae-jung, Panjana Sengprasert, Jirun Apinun, Srihatach Ngarmukos, Pongsak Yuktanandana, Aree Tanavalee, <u>Rangsima Reantragoon</u> Presenter affiliation: Chulalongkorn University, Bangkok, Thailand.	16
Effect of gender on a novel mannan-induced mouse model of Psoriasis and Psoriasis arthritis <u>Huimei Wu</u> , Kutty Selva Nandakumar Presenter affiliation: Southern Medical University, Guangzhou, China.	17
Inhibition of arachidonate 15-lipoxygenase reduces epithelial-to-mesenchymal transition in chronic rhinosinusitis with nasal polyps <u>Bing Yan</u> , Chengshuo Wang, Luo Zhang Presenter affiliation: Beijing TongRen Hospital, Beijing, China; Beijing Institute of Otolaryngology, Beijing, China.	18

Hepatic CCRK drives hepatocarcinogenesis via mTORC1-associated myeloid-derived suppressive cell (MDSC)-induced immunosuppression

Xuezheng Zeng, Hanyong Sun, Jingying Zhou, Alfred Sze-Lok Cheng
Presenter affiliation: The Chinese University of Hong Kong, Shatin, Hong Kong.

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SIRT5 regulates inflammatory and autoimmunity associated genes expression in AIA rat

Hui Zhang, Ni Zhang, Vincent Kam Wai Wong
Presenter affiliation: Macau Institute for Applied Research in Medicine and Health, Macau, China.

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Characterization of IL-13R α 2 mediated IL-13 depletion

Yajuan Zhao, Melvin Zhang, Caitlyn Dickinson, Peter Symanowicz, Mark Farmer, Martin Hegen, Fang Jin, Karl Nocka, Marion Kasaian.
Presenter affiliation: Pfizer Inc., Cambridge, Massachusetts.

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TUESDAY, September 11—4:30 PM

Chinese Tea and Beer Tasting

TUESDAY, September 11—7:00 PM

SESSION 4 DEVELOPMENT AND MAINTENANCE OF THE IMMUNE SYSTEM

Chairperson: **Vijay Kuchroo**, Harvard Medical School, Brigham and Women's Hospital, Boston, Massachusetts

Towards improving the anti-tumor efficacy of human gamma/delta T cells

Dieter Kabelitz [20'+10']
Presenter affiliation: University of Kiel, Kiel, Germany.

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Molecular regulation of adipose tissue resident regulatory T cells

Axel Kallies [20'+10']
Presenter affiliation: University of Melbourne, Melbourne, Australia.

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Control of lymphocyte positioning during germinal center formation

Hai Qi [20'+10']

Presenter affiliation: Tsinghua University, Beijing, China.

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Induction and regulation of Th17 Cells

Vijay K. Kuchroo [20'+10']

Presenter affiliation: Harvard Medical School and Brigham and Women's Hospital, Boston, Massachusetts.

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The gamma delta T cell receptor mediates stress-surveillance by combining innate with adaptive immunity in a single molecule

Adrian Hayday [20'+10']

Presenter affiliation: King's College London, London, United Kingdom; Francis Crick Institute, London, United Kingdom.

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Altered circulating T- and B-cell subpopulations in patients with type 1 diabetes

Qing Ling, Jing Lu, Dalong Zhu, Yan Bi [10'+5']

Presenter affiliation: Drum Tower Hospital Affiliated to Nanjing University Medical School, Nanjing, China.

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Blockade of myeloid-derived suppressor cell-intrinsic cell cycle-related kinase amplifies T cell immunity

Jingying Zhou, Zhiwei Chen, Alfred Sze Lok Cheng [10'+5']

Presenter affiliation: School of Biomedical Sciences, Hong Kong, Hong Kong.

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WEDNESDAY, September 12—9:00 AM

SESSION 5 MUCOSAL IMMUNITY

Chairperson: **Richard Flavell**, Yale University, New Haven, Connecticut, USA

New guardians of mucosal immunity

Richard A. Flavell, Ruaidhri Jackson [20'+10']

Presenter affiliation: Yale University / Howard Hughes Medical Institute, New Haven, Connecticut.

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Host-microbe interaction in the intestine

Kiyoshi Takeda [20'+10']

Presenter affiliation: Osaka University, Osaka, Japan.

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Intestinal IgA as a modulator of gut microbiota

Reiko Shinkura [20'+10']

Presenter affiliation: The University of Tokyo, Tokyo, Japan.

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The Sin1-mTOR regulation of T development, metabolism, and trafficking

Bing Su, Xinxing Ouyang, Omotooke A. Arojo [20'+10']

Presenter affiliation: Shanghai JiaoTong University School of Medicine, Shanghai, China; Yale University School of Medicine, New Haven, Connecticut.

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Theory of negative trigger—The switch to fight infections, allergies, autoimmune, and cancers

Cliff S. Han [10'+5']

Presenter affiliation: Knoze Jr Corp, Los Alamos, New Mexico.

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TPL2 kinase activity positively regulates inflammatory response in myeloid cells

Daqi Xu, Ali Zarrin [10'+5']

Presenter affiliation: Genentech, Inc, South San Francisco, California.

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WEDNESDAY, September 12—1:30 PM

Visit to Old Suzhou

WEDNESDAY, September 12—7:00 PM

SESSION 6 **CANCER IMMUNOLOGY AND VACCINES: RECENT PROGRESS AND FUTURE PROSPECTS**

Chairperson: **Fabienne Mackay**, University of Melbourne, Victoria, Australia

Mechanisms underlying immune responses and tumorigenesis

Tak Wah Mak [20'+10']

Presenter affiliation: Princess Margaret Cancer Centre, Toronto, Ontario.

Innate sensing of cytosolic LPS—Pyroptosis and beyond

Feng Shao [20'+10']

Presenter affiliation: National Institute of Biological Sciences, Beijing, China.

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CD155 receptor and ligand functions in tumors

Xian-Yang Li, Indrajit Das, Matthias Braun, Tobias Bald, William C. Dougall, Ludovic Martinet, Mark J. Smyth [20'+10']

Presenter affiliation: QIMR Berghofer Medical Research Institute, Herston, Australia.

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NK cell exhaustion and reversal by checkpoint immunotherapy

Zhigang Tian [20'+10']

Presenter affiliation: Institute of Immunology, Hefei, China.

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Standing on the shoulders of mice—Adventures in human immunology

Mark M. Davis [20'+10']

Presenter affiliation: Howard Hughes Medical Institute, Stanford University, Stanford, California.

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Adipose PD-L1 modulates PD-1/PD-L1 checkpoint blockade immunotherapy efficacy in breast cancer

Rong Li, Bogang Wu, Xiujie Sun, Harshita Gupta, Tyler Curiel [10'+5']

Presenter affiliation: University of Texas Health Science Center at San Antonio, San Antonio, Texas.

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Cell of origin and molecular function of tumor associated microglia/macrophage in medulloblastoma

Maojin Yao, Ying Jiang, Yibo Yang, Mariko Bennett, Hui Zong [10'+5']

Presenter affiliation: University of Virginia, Charlottesville, Virginia.

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THURSDAY, September 13—9:00 AM

SESSION 7 INNATE IMMUNITY AND CYTOKINES

Chairperson: **Warren Leonard**, NHLBI, National Institutes of Health, Bethesda, Maryland, USA

Nuclear DNA sensor hnRNP-A2B1 initiates and amplifies the innate response against DNA viruses

Xuetao Cao [20'+10']

Presenter affiliation: Peking Union Medical College, Chinese Academy of Medical Sciences, Beijing, China; National Key Laboratory of Medical Immunology and Institute of Immunology, Second Military Medical University, Shanghai, China

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The γ c family of cytokines and the fine-tuning of cytokine signals
Warren J. Leonard [20'+10']
Presenter affiliation: National Institutes of Health, Bethesda, Maryland. 42

Lipid-specific T cells and the skin
Graham Ogg [20'+10']
Presenter affiliation: University of Oxford, Oxford, United Kingdom. 43

Modulation of cGAS-dependent innate DNA sensing in human cells by RNA viruses
Sin-Yee Fung, Pak-Hin Hinson Cheung, Chi-Ping Chan, Dong-Yan Jin [10'+5']
Presenter affiliation: The University of Hong Kong, Pokfulam, Hong Kong. 44

Nuclear cGAS suppresses DNA repair and promotes tumorigenesis
Haipeng Liu, Haiping Zhang, Xiangyang Wu, Zhiyong Mao, Baoxue Ge [10'+5']
Presenter affiliation: Shanghai Key Lab of Tuberculosis, Shanghai Pulmonary Hospital, Tongji University School of Medicine, Shanghai, China. 45

Multifunctionality of human β -defensins mediated by phosphoinositide binding
Thanh Kha Phan, Fung T. Lay, Michael Järva, Marc Kvan Sakul, Mark Hulett [10'+5']
Presenter affiliation: La Trobe University, Melbourne, Australia. 46

THURSDAY, September 13—2:00 PM

SESSION 8 INFLAMMATION AND ASSOCIATED DISEASE

Chairperson: **Shizuo Akira**, Osaka University, Osaka, Japan

The role of RBM7 in lung fibrosis
Shizuo Akira [20'+10']
Presenter affiliation: Osaka University, Osaka, Japan. 47

Genetics dissection of familial inflammatory disorders
Koji Yasutomo [20'+10']
Presenter affiliation: Tokushima University, Tokushima, Japan. 48

Group 2 innate lymphoid cell and allergic disorders

Kazuyo Moro [20'+10']

Presenter affiliation: RIKEN IMS, Yokohama, Japan.

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Hyperactivation of the NLRP3 inflammasome, may not be always bad!

Guangxun Meng [10'+5']

Presenter affiliation: Institut Pasteur of Shanghai, Chinese Academy of Sciences, Shanghai, China.

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CD82 hypo-methylation is essential for tuberculosis pathogenesis via RUNX1-Rab5/22

Chul-Su Yang [10'+5']

Presenter affiliation: Hanyang University, Seoul, South Korea.

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The influence of CXCL4/5/7 mediated inflammatory memory of innate immune cells with respiratory virus infection

Nan Li [10'+5']

Presenter affiliation: Peking Union Medical College, Kunming, China.

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Superior efficacy and long-term survival benefit of HDAC8 and PD-L1 co-blockade in liver cancer immunotherapy

Alfred Sze-Lok Cheng, Weiqin Yang, Jingying Zhou, Yu Feng, Hanyong Sun, Stephen L. Chan, Zhiwei Chen, Ka-Fai To, Joseph J. Sung [10'+5']

Presenter affiliation: School of Biomedical Sciences, Hong Kong, Hong Kong.

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THURSDAY, September 13—6:00 PM

COCKTAILS and BANQUET

SESSION 9 INTERFACE BETWEEN IMMUNE SYSTEM AND OTHER
BIOLOGICAL SYSTEMS

Chairperson: **Arup Chakraborty**, Massachusetts Institute of
Technology, Cambridge, Massachusetts, USA

**Neural stimulations regulate the formation of immune cell
gateways into the CNS**

Daisuke Kamimura, Masaaki Murakami [20'+10']

Presenter affiliation: Hokkaido University Graduate School of
Medicine, Sapporo, Japan.

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How to hit HIV where it hurts

Arup K. Chakraborty [20'+10']

Presenter affiliation: Massachusetts Institute of Technology,
Cambridge, Massachusetts.

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Neural regulation of white adipose tissue metabolism

Haochen Jiang, Xiaofan Ding, Ying Cao, Huanhuan Wang, Wenwen
Zeng [20'+10']

Presenter affiliation: Tsinghua University, Beijing, China.

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**Proinflammatory cytokines alter metabolic signaling in POMC
neurons**

Hsueh-Chen Chang, Pei-Wen Chu, Shau-Kwaun Chen [10'+5']

Presenter affiliation: National ChengChi University, Taipei, Taiwan.

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Mechanosensing by Piezo1 is critical for human T cell activation

Chinky SC Liu, Deblina Raychaudhuri, Barnali Paul, Yogaditya
Chakraborty, Amrit R. Ghosh, Oindrila Rahaman, Arindam Talukdar,
Dipyaman Ganguly [10'+5']

Presenter affiliation: CSIR-Indian Institute of Chemical Biology,
Kolkata, India.

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