

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Innate Immune Receptors: Roles in Immunology and Beyond (M1)

March 10-14, 2019 • International Conference Hall of Academia Sinica • Taipei, Taiwan

Scientific Organizers: Jenny P.Y. Ting, Shie-Liang Edmond Hsieh, Fu-Tong Liu, Michael Gale, Jr. and Siamon Gordon

Developed in collaboration with Academia Sinica.

Local Coorganizer Committee: Hsing-Jien Kung, President Emeritus, National Health Research Institutes, Luh-Hai Wang, Vice President, China Medical University, Huey-Kang Sytwu, Vice President, National Health Research Institutes, Yijiang Chern, Director, Department of International Affairs, Academia Sinica, Chun-Hung Lin, Director, Department of Academia Affairs, Academia Sinica and Instrument Service.

Abstract & Scholarship Deadline: November 13, 2018 / Abstract Deadline: December 11, 2018 / Discounted Registration Deadline: January 17, 2019

SUNDAY, MARCH 10

Arrival and Registration

MONDAY, MARCH 11

Welcome and Keynote Address

***Siamon Gordon**, Chang Gung University / University of Oxford, UK

Vishva M. Dixit, Genentech, Inc., USA

Why so Many Ways to Die? The Non-Canonical Inflammasome Pathway

Innate Immune Receptors and Nucleic Acid Sensing

Zhijian James Chen, University of Texas Southwestern Medical Center, USA

DNA Sensing by cGAS: Chemistry, Biology and Application

Michael Gale, Jr., University of Washington, USA

Viral Sensing and Identification of PAMPs that Activate Nucleic Acid Sensors

Jenny P.Y. Ting, University of North Carolina at Chapel Hill, USA

Nucleic Acid Sensing and Immune Regulation

Sun Hur, Harvard Medical School, USA

RNA Sensing: Structure and Disease Relevance

Short Talk(s) Chosen from Abstracts

Innate Immune Receptors in Cell Death

Feng Shao, National Institute of Biological Sciences, China

Pyroptosis: from Innate Immunity to Cancer

Speaker to be Announced

Edward A. Miao, University of North Carolina at Chapel Hill, USA

Programmed Cell Death as a Defense against Infection

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 12

Innate Immune Receptors and Diseases

Shizuo Akira, Osaka University, Japan

Innate Immunity and Fibrotic Responses

Amal Amer, Ohio State University, USA

Innate Immune Responses in Disease and Infection

Fu-Tong Liu, Institute of Biomedical Sciences, Academia Sinica, Taiwan

Galectins in Metabolic Diseases and Infectious Diseases

Carla V. Rothlin, Yale University, USA

TAM Receptors and the Regulation of Macrophage Polarization

Short Talk(s) Chosen from Abstracts

Innate Immunity and Therapeutics

Robert L. Coffman, Dynavax Technologies, USA

Clinical Development of TLR9 Agonists

Cheng-Lung Ku, Chang Gung University, Taiwan

Pathogen-Host Interaction in Humans

Glen N. Barber, University of Miami, USA

STING and STING Agonist as Therapeutic Targets

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 13

Innate Immune Receptors in Viral Infection

Michael S. Diamond, Washington University School of Medicine, USA

Innate Immunity and Zika

Hao Wu, Harvard Medical School, Boston Children's Hospital, USA

Structures and Functions of GSDM Pores

Shie-Liang Hsieh, Academia Sinica, Taiwan

Lectin and Dengue Viruses

Veit Hornung, Ludwig-Maximilians-University Munich, Germany

Innate Immune Receptors for Nucleic Acids

Short Talk(s) Chosen from Abstracts

Innate Immunity in Bacterial and Fungal Infection

Betty A. Wu-Hsieh, National Taiwan University, Taiwan

Innate Immune Receptors in Antifungal Responses

Alan Sher, NIAID, National Institutes of Health, USA

TLR/NLR and TB

Robert L. Modlin, University of California, Los Angeles, USA

Innate Immune Receptor, Vitamin D and Innate Immunity to Bacteria

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 14

Innate Immunity and Diseases

Douglas Golenbock, University of Massachusetts Medical School, USA

*Innate Immune Memory in *Falciparum Malaria**

Mihai G. Netea, Radboud University, Netherlands

Epigenetic and Metabolic Reprogramming in Innate Immune Memory

Gregory M. Barton, University of California, Berkeley, USA

TLR

Raphaela Theresia Goldbach-Mansky, NIAID, LCID, National

Institutes of Health, USA

Genetic basis of Autoinflammatory Diseases

Short Talk(s) Chosen from Abstracts

Innate Immune Receptors and the Microbiome

Cathryn Nagler, University of Chicago, USA

Microbiome and Food Allergy

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital,

USA

NLR and Caspases

Gabriel Nuñez, University of Michigan, USA

Linking NLRs, the Microbiota and Inflammatory Disease

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

***Siamon Gordon**, Chang Gung University / University of Oxford, UK

FRIDAY, MARCH 15

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Departure