

## SCIENTIFIC PROGRAM

### SESSION LECTURE

No.11

**Cell Death in Defense and Immunity**  
**Room: Phoenix Room 2**

**Co-Chairs:**  
**Feng Shao**



**Seamus J Martin**



**Day 1 October 19th (Saturday) 14:00 – 17:30**

Time	Speaker	Title
14:00-14:30	<b>Seamus J. Martin</b> Trinity College Dublin, Ireland	What doesn't Kill you Makes you Stranger: Inflammatory outcomes of Cell Death signals
14:30-15:00	<b>Francis Ka-Ming Chan</b> Zhejiang University Liangzhu Laboratory, China	Mechanisms and Functions of Necroptosis in Host Defense and Tissue Homeostasis
15:00-15:30	<b>Petr Broz</b> University of Lausanne, Switzerland	Mechanism and biological function of NINJ1- dependent necrosis
15:30-16:00	<b>Tea Break</b>	
16:00-16:30	<b>Jingjin Ding</b> Institute of Biophysics (IBP), Chinese Academy of Sciences, China	Mechanistic insights into pyroptosis activation: proteolysis of gasdermins and beyond
16:30-17:00	<b>Qing Zhong</b> Shanghai Jiaotong University School of Medicine, China	The cross-organelle regulation of ferroptosis and immune response
17:00-17:30	<b>Guotian Li</b> Professor Huazhong Agricultural University	An engineered gasdermin mediates plant immunity independently of the resistosome



### Seamus J. Martin

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Seamus Martin holds the Smurfit Chair of Molecular Genetics at Trinity College Dublin, Ireland (since 1999). He was elected to The Royal Irish Academy of Sciences in 2006, to the European Molecular Biology Organization (EMBO) in 2009 and to Academia Europaea in 2023. He served as President of the European Cell Death Organization (ECDO) from 2016-2018 and was awarded an ERC Advanced grant in 2021. The Martin laboratory is interested in all aspects of programmed cell death, especially the links between cell death, inflammation and cancer.



### Francis Ka-Ming Chan

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Professor Chan started his independent research group at the University of Massachusetts Medical School, where he rose through the ranks to become Full Professor. In 2018, he was recruited to the Department of Immunology at Duke University School of Medicine, where he served as Full Professor and Vice Chair of Research. In 2022, he joined the Zhejiang University Liangzhu Laboratory as Principal Investigator. Professor Chan's research centers around the role of cell death in immune signaling, inflammation, and host-pathogen interaction.



### Petr Broz

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Petr Broz received his PhD in Microbiology in 2006 from the University of Basel (Switzerland). After working in immunology research for CSL Behring, he joined the laboratory of Denise Monack at Stanford University (USA) in 2008, where he started to work inflammasome complexes in the context of bacterial infections. He joined the Department of Immunobiology (formerly Biochemistry) as an Associate Professor in October 2017 and he became Full Professor in February 2022. His current research focuses on host defense mechanisms, inflammasomes and the induction of pyroptosis, a lytic, inflammatory cell death.



### Jingjin Ding

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Dr. Jingjin Ding received his B.S. from Wuhan University in 2003 and obtained his Ph.D. in biochemistry and molecular biology at IBP in 2008. After completing a postdoctoral fellowship at IBP and a visiting scholar program at the National Institute of Biological Sciences, Beijing, he was appointed as an investigator at IBP in 2018. Researches in Dr. Ding's laboratory focus on the host-pathogen interface. Using multi-disciplinary approaches his group has systematically studied the molecular mechanisms underlying pyroptosis executed by gasdermin pore-forming proteins in host antibacterial immunity, and counteraction of pyroptotic defense by pathogenic bacteria.



### Guotian Li

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Dr. Guotian Li, Prof. at Huazhong Agricultural University, PI of National Key Laboratory of Agricultural Microbiology and Hubei Hongshan Laboratory. Guotian Li finished his Ph.D. at Purdue University, and did his postdoc training at the University of California, Davis and Lawrence Berkeley National Laboratory. In September 2018, he started his own group at Huazhong Agricultural University. His laboratory is mainly focused on rice-pathogen interactions and how to use various technologies and cell death-inducing mechanisms for crop immunity engineering.



### Qing Zhong

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Dr. Zhong joined the faculty of University of California at Berkeley in the fall of 2006 and relocated back to University of Texas Southwestern Medical Center at Dallas as tenured associated professor in 2013. In 2017, he moved back to Shanghai Jiaotong University School of Medicine as a full principal investigator, Director of Key Laboratory of "Cell Differentiation and Apoptosis" of Chinese Ministry of Education, Department Chair of Pathophysiology, and Guangqi Endowed Chair Professor. Dr. Zhong studies the biochemical regulation of autophagy, apoptosis and necrosis in mammalian cells. He has published more than 70 papers, which has been cited more than 10,000 times and selected as Elsevier "Most Cited Chinese Researchers" in 2021-2023. He serves in the editorial board of JBC and is a senior member of F1000 faculties.