

Abstracts of papers presented  
at the 2025 Cold Spring Harbor Asia Conference

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# CELL DEATH AND INNATE IMMUNITY

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May 12–May 15, 2025

Arranged by

Francis Chan, *Zhejiang University*

Sudan He, *Suzhou Institute of Systems Medicine*

Xuejun Jiang, *Memorial Sloan Kettering Cancer Center*

You-Sun Kim, *Ajou University*

Pascal Meier, *Institute of Cancer Research*



Cold Spring Harbor Conferences Asia  
Cold Spring Harbor Laboratory



**CELL DEATH AND INNATE IMMUNITY**  
Monday, May 12– Thursday, May 15, 2025

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Monday	7:00 pm	<b>1</b> Keynote Session
Tuesday	9:00 am	<b>2</b> Innate Immune Sensing and Cell Death I
Tuesday	2:00 pm	<b>Poster Session</b>
Tuesday	3:00 pm	<i>Chinese Tea and Beer Tasting</i>
Tuesday	7:00 pm	<b>3</b> Infection and Immunity I
Wednesday	9:00 am	<b>4</b> Innate Immunity Sensing and Homeostasis
Wednesday	2:00 pm	<b>5</b> Cell Death and Diseases
Wednesday	7:00 pm	<b>6</b> Infection and Immunity II
Thursday	9:00 am	<b>7</b> Innate Immune Sensing and Cell Death II
Thursday	2:00 pm	<b>8</b> Cell Death and Immunity: From Basic Mechanisms to Translation
Thursday	5:00 pm	<i>Cocktails and Banquet</i>
Friday	9:30 am	<i>Old Suzhou Tour (optional)</i>

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Oral presentation sessions are located in the CSHA Auditorium  
Poster session and Chinese Tea & Beer Tasting are in the Lake Front Hall.  
Cocktail social hour is held outside in the Suz Garden.  
Old Suzhou visits depart from the CSHA lobby  
*\*optional tour requires additional fee.*

Meal locations and times are as follows:  
Lunch: Main Cafeteria 12:00pm - 1:30pm  
Dinner: Main Cafeteria 6:00pm - 7:30pm  
Banquet: Suz Garden 6:00pm

More information will be available at CSHA office.  
*(Map at the end of this abstract book)*

## PROGRAM

MONDAY, May 12—7:00 PM

### SESSION 1 KEYNOTE SESSION

**Chairpersons:** **Francis Chan**, Zhejiang University, Hangzhou, China  
**Sudan He**, Suzhou Institute of Systems Medicine, Suzhou, China

#### **RIPK1, immunity and human diseases**

Junying Yuan [35'+10']

Presenter affiliation: Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, China.

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#### **Exposure of phosphatidylserine in cell death**

Shigekazu Nagata [35'+10']

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

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TUESDAY, May 13—9:00 AM

### SESSION 2 INNATE IMMUNE SENSING AND CELL DEATH I

**Chairpersons:** **Xuejun Jiang**, Memorial Sloan-Kettering Cancer Center, New York, New York  
**Liming Sun**, Institute of Biochemistry and Cell Biology (SIBCB), CAS, Shanghai, China

#### **Identifying new mechanisms in pattern recognition receptor signalling**

Clare Bryant [20'+10']

Presenter affiliation: The University of Cambridge, Cambridge, United Kingdom.

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#### **Inflammasome and gasdermin signalling in neutrophils**

See Jie Yow, Hai Shin Pung, Kay En Low, Isabelle Bonne, Melissa Ng, Immanuel Kwok, Kaiwen Chen [10'+5']

Presenter affiliation: National University of Singapore, Singapore.

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**Regulation of innate immunity**

Jonathan C. Kagan [20'+10']

Presenter affiliation: Harvard Medical School, Boston, Massachusetts. 5

**Die hard—Pyroptotic cell explosion selectively escalates immune responses**

Kate Schroder [20'+10']

Presenter affiliation: University of Queensland, Brisbane, Australia. 6

**Break**

**Sensing S-adenosylmethionine scarcity by RIPK1 drives cell death and inflammation**

Daichao Xu [20'+10']

Presenter affiliation: Interdisciplinary Research Center on Biology and Chemistry, Shanghai, China. 7

**Mechanisms of NLRP3 activation and inhibition elucidated by functional analysis of disease-associated variants**

Shouya Feng, Matthew C. Wierzbowski, Matthias Geyer, Guilaine Boursier, Seth L. Masters [10'+5']

Presenter affiliation: Hudson Institute of Medical Research, Melbourne, Australia; Monash University, Melbourne, Australia; The Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia; University of Melbourne, Melbourne, Australia. 8

**Deciphering MLKL activation—New regulatory mechanisms and biological functions**

You-Sun Kim [20'+10']

Presenter affiliation: Graduate School of Ajou University, Suwon, South Korea. 9

TUESDAY, May 13—2:00 PM

**POSTER SESSION**

**Human peripheral blood mononuclear cells from different donors mounts differential immune responses to TLR4 stimulation**

Kaitlin Chan, Jamie Price, Hannah Wolf, Pratyusha Mandal

Presenter affiliation: Lehman College, NYC, New York. 10

<p><b>An investigation of type I interferon signalling during <i>Shigella flexneri</i> infection</b>  <u>Anita Chaulagain</u>, Yogeswari Chandran, Jaclyn Pearson, Cristina Giogha, Elizabeth Hartland  Presenter affiliation: Hudson Institute of Medical Research, Clayton, Australia; Monash University, Clayton, Australia.</p>	11
<p><b>RIPK1 senses S-adenosylmethionine scarcity to drive cell death and inflammation</b>  <u>Ze Zhao Chen</u>, Daichao Xu  Presenter affiliation: Interdisciplinary Research Center on Biology and Chemistry, Shanghai, China; University of Chinese Academy of Sciences, Beijing, China.</p>	12
<p><b>Non ZAKα-dependent NLRP1 inflammasome activation revealed by blister beetle dermatitis and dsRNA-triggered pyroptosis</b>  <u>Rae Chua</u>, Shirley Ding, Muhammad J. Firdaus, Gee A. Toh, Pritisha Rozario, Franklin L. Zhong  Presenter affiliation: Nanyang Technological University, Singapore.</p>	13
<p><b>Targeting RIPK1 ameliorates autoimmune lymphoproliferative syndrome</b>  Jingjing Li, <u>Yayun Du</u>, Xiaoliang Yu, Jiaying Qiu, Junjie Fan#, Sudan He#  Presenter affiliation: Suzhou Institute of Systems Medicine, Suzhou, China.</p>	14
<p><b>Liposomal delivery of alarmin-targeting peptides for enhanced therapeutic efficacy in sepsis treatment</b>  <u>Woo Jin Gil</u>, Chul Su Yang  Presenter affiliation: Hanyang University, Andan-si, South Korea.</p>	15
<p><b>Inhibition of host protein translation by enteric bacterial pathogens</b>  <u>Cristina Giogha</u>, Anita Chaulagain, Eva Chan, Garrett Ng, Kathleen McCaffrey, Elizabeth L. Hartland  Presenter affiliation: Hudson Institute of Medical Research, Clayton, Australia; Monash University, Clayton, Australia.</p>	16
<p><b>Reduction of DHHC5-mediated Beclin 1 S-palmitoylation underlies autophagy decline in aging</b>  <u>Rui Guo</u>, Jianping Liu, Xia Min, Wen Zeng, Bing Shan, Mengmeng Zhang, Zhuohao He, Yaoyang Zhang, Kaiwen He, Junying Yuan, Daichao Xu  Presenter affiliation: Interdisciplinary Research Center on Biology and Chemistry, Shanghai, China.</p>	17

- Alarmin/receptor-targeting peptides for modulating inflammatory signaling and cytokine responses in macrophages**  
Yuseong Ham, Chul-Su Yang  
 Presenter affiliation: Hanyang University, Ansan, South Korea. 18
- S100A8/A9-derived peptide regulates inflammation by blocking interactions of pattern recognition receptors**  
Seungbin Han, Chul-su Yang  
 Presenter affiliation: Hanyang University, Ansan, South Korea. 19
- Cell death pathways triggered in chicken macrophages in response to infection by *Salmonella enterica* serovar Typhimurium**  
Xiner (Stella) He, Joseph P. Boyle, Weidong Jing, Marisa Dilucca, Gavin Sewell, Julieth M. Silva, Clare E. Bryant  
 Presenter affiliation: University of Cambridge, Cambridge, United Kingdom. 20
- Phensuximide inhibits RIPK1 kinase activity-dependent necroptosis**  
Sun Mi Hong, Su-Yeon Seon, Jeong-Eun Lee, Da-Hye Jeong, Ju-Mi Park, Gi-Hyeon Kim, Dakeun Lee, Michael J. Morgan, You-Sun Kim  
 Presenter affiliation: Ajou University School of Medicine, Suwon, South Korea. 21
- Promoting tissue regeneration by delivering engineered factors derived from regulatory T cells**  
Nan Hu, Bhavana Nayer, Peter D. Currie, Mikael M. Martino  
 Presenter affiliation: Monash University, Melbourne, Australia. 22
- Dissecting the role of RIPK3 in necroptosis, apoptosis and inflammatory signaling**  
Fangmin Huang, Francis Ka-Ming Chan  
 Presenter affiliation: Zhejiang University, Hangzhou, China. 23
- BCL-XL and MCL-1 determine cell fate after activation of the tumour suppressor TP53/TRP53**  
Allan Shuai Huang, Elizabeth Lieschke, Pedro Baldoni, Amar Balihodzic, Annabella Thomas, John E La Marca, Aisling Ross, Luuk Heitink, Pardeep Rajasekhar, Lauren Whelan, Catherine Chang, Michael Dengler, Gordon Smyth, Gemma L. Kelly, Andreas Strasser  
 Presenter affiliation: The Walter and Eliza Hall Institute (WEHI), Melbourne, Australia; The University of Melbourne, Melbourne, Australia. 24

<b>Proteomics screen identifies novel regulators of N4BP1 activity in inflammatory diseases</b> <u>Hua Jiang</u> , Francis Ka-Ming Chan Presenter affiliation: Liangzhu Laboratory, Hangzhou, China.	25
<b>The effects of RHIM domains on cell death and inflammation</b> <u>Jianwei Li</u> , Mingjie Liu, Francis Chan Presenter affiliation: Zhejiang University, Hangzhou, China.	26
<b>S161 autophosphorylation regulates RIPK1-mediated cell death and inflammation</b> Lioba Koerner, <u>Xiaoming Li</u> , Lucie Laurien, Eveline Silnov, Manolis Pasparakis Presenter affiliation: University of Cologne, Cologne, Germany.	27
<b>Deubiquitinase-dependent transcription silencing controls inflammation</b> <u>Zixu Liu</u> Presenter affiliation: Westlake University, Hangzhou, China.	28
<b>MEN1 loss confers resistance to replication stress-inducing drugs</b> <u>Ronnie Ren Jie Low</u> , Simon J. Boulton Presenter affiliation: The Francis Crick Institute, London, United Kingdom.	29
<b>Critical role of classical complement pathway and C3a for B1 B cells' antibody response against atypical <i>Francisella tularensis</i>' LPS</b> Guilherme A. Melo, Carlos Barbosa, Elena Magrini, Cecilia Garlanda, <u>Fabio Re</u> Presenter affiliation: Rosalind Franklin University of Medicine and Science, North Chicago, Illinois.	30
<b>Therapeutic inhibition of the proteasome induces distinct cell-type specific fate in multiple myeloma, endothelial and peripheral blood mononuclear cells</b> <u>Prajakta Sawant</u> , Aleena Mathew, Hannah Wolf, Kaitlin Chan, Johanna Bensalel, Julio Gallego-Delgado, Pratyusha Mandal Presenter affiliation: The Graduate Center, The City University of New York, New York City, New York; Lehman College, The City University of New York, Bronx, New York City, New York.	31

<b>ELAVL1-associated lipid droplet reprogramming and M2 macrophage polarization suppress colorectal cancer development</b> <u>Yu Shao</u> , Lan Liu Presenter affiliation: Zhongnan Hospital of Wuhan University, Wuhan, China.	32
<b>Inhibition of BAX/BAK-dependent apoptosis by a bacterial effector</b> <u>Yue Shao</u> , Dandan Yang, Yue Xu Presenter affiliation: Shanghai Jiaotong University School of Medicine, Shanghai, China.	33
<b>Innate immune signaling by ZBP1-RIPK1 axis drives neuroinflammation in Alzheimer's disease</b> <u>Ziwen Song</u> , Xingxing Xie, Yulu Chen Presenter affiliation: Shanghai Institute of Organic Chemistry, Shanghai, China.	34
<b>Dysregulation of cardiomyocyte mitochondrial dynamics may underpin MCL-1 inhibitor-induced cardiotoxicity</b> <u>Xiao-Ming Sun</u> , Andrew Craxton, Nobuhiro Morone, Lucia Pinon, Marion MacFarlane Presenter affiliation: University of Cambridge, Cambridge, United Kingdom.	35
<b>Novel chemotype NLRP3 inhibitors that target the CRID3-binding pocket with high potency</b> <u>Lieselotte Vande Walle</u> , Madhukar Said, Oonagh Paerewijck, Arinna Bertoni, Marco Gattorno, Bruno Linclau, Mohamed Lamkanfi Presenter affiliation: Ghent University, Ghent, Belgium.	36
<b>Calpain 15 is a novel RNA-dependent inflammasome regulator</b> <u>Anqi Wang</u> , Yiqi Huang, Antonio Piras, Florian I. Schmidt, Dirk Wohlleber, Veit Hornung, Andreas Pichlmair Presenter affiliation: Technical University of Munich, Munich, Germany.	37
<b>Mechanism of the CARD8 inflammasome activation in HIV infection</b> <u>Qiankun Wang</u> Presenter affiliation: Shenzhen Bay Laboratory, Shenzhen, China.	38



**Dual roles of RIPK3 in endotoxic shock—RHIM-mediated pro-inflammatory signaling and kinase-dependent anti-inflammatory resolution**

Fang Li, Yangyang Wang, Xiaoming Li, Xiaoxia Wu, Xiaoming Zhao, Jihong Jiang, Jinbao Li, Haibing Zhang  
Presenter affiliation: Shanghai Institute of Nutrition and Health, University of Chinese Academy of Sciences, Chinese Academy of Sciences, Shanghai, China.

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**Proteasomal inhibition by carfilzomib compromises endothelial cell function**

Hannah Wolf, Pratyusha Mandal  
Presenter affiliation: The Graduate Center, City University of New York, New York, New York; Lehman College, City University of New York, New York, New York.

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**Regnase-1 is an endoribonuclease that regulates the stability of pro-inflammatory mRNAs, bridging innate immunity and cell death pathways**

Gabsik Yang, Sung Wook Kim, Ye Eun Baek, Su Bin Park, Jung Min Han  
Presenter affiliation: Woosuk University, Jeonju, South Korea.

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***Yersinia* infection induces glucose depletion and AMPK-dependent inhibition of pyroptosis in mice**

Yuanxin Yang, Hongwen Fang  
Presenter affiliation: Shanghai Institute of Organic Chemistry, Shanghai, China.

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**ZBP1 directly senses Z-RNA during influenza A virus-induced cell death signaling**

Chaoran Yin, Avishekh Gautam, Alexandr Feodorov, Carly Deantoneo, Mark Andrade, Jeremy C. Crawford, Jason W. Upton, Paul G. Thomas, Yan Xu, Jan Rehwinkel, Ting Zhang, Siddharth Balachandran  
Presenter affiliation: Fox Chase Cancer Center, Philadelphia, Pennsylvania.

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***Toxoplasma gondii*-derived GRA2 triggers apoptosis in non-small-cell lung cancer**

Chanjin Yoon, Chul-Su Yang  
Presenter affiliation: Hanyang University, Ansan, South Korea.

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TUESDAY, May 13—3:00 PM

**Chinese Tea and Beer Tasting**

**SESSION 3**      INFECTION AND IMMUNITY I

**Chairpersons:** **You-Sun Kim**, Ajou University, Suwon, Korea  
**Kate Schroder**, University of Queensland, Brisbane, Australia

**NINJ1 and its role in cell death-associated plasma membrane rupture**

Petr Broz [20'+10']

Presenter affiliation: University of Lausanne, Epalinges, Switzerland. 45

**IL-1 family cytokines cause skin inflammation induced by Caspase-8 dependent keratinocyte death independently of gasdermins**

Masahiro Nagata, Laurens Wachsmuth, Eunjin Ju, Yasmin C. Schäfer, Remzi O. Eren, Manolis Pasparakis [10'+5']

Presenter affiliation: University of Cologne, Cologne, Germany. 46

**Mechanisms regulating pyroptosis induction by inflammasome sensor NLRP1a**

Mohamed Lamkanfi [20'+10']

Presenter affiliation: Faculty of Medicine and Health Sciences, Ghent University, Ghent, Belgium. 47

**Gasdermin D, Gasdermin E and Ninjurin-1 are dispensable for innate inflammation during autoantibody-mediated arthritis**

Timothy A. Gottschalk, Hazel Tye, Cynthia Louis, James E. Vince, Kim M. O'Sullivan, Kate E. Lawlor [10'+5']

Presenter affiliation: Hudson Institute of Medical Research, Clayton, Australia; Monash University, Clayton, Australia. 48

**Bacterial type IV secretion system induces specific and nonspecific protective immunity**

Dario S. Zamboni [20'+10']

Presenter affiliation: University of Sao Paulo, Ribeirao Preto-SP, Brazil. 49

**SESSION 4**      **INNATE IMMUNITY SENSING AND HOMEOSTASIS**

**Chairpersons:** **Zhe Wang**, Nature Cell Biology, Shanghai, China  
**Petr Broz**, University of Lausanne, Epalinges, Switzerland

**Non-canonical ubiquitination—Regulating cell death, inflammation and immunity in health and disease**

Henning Walczak [20'+10']

Presenter affiliation: University of Cologne, Cologne, Germany;  
University College London, London, United Kingdom.

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**Regulation of TNF cytotoxicity by unconventional forms of autophagy**

Mathieu J. Bertrand [20'+10']

Presenter affiliation: VIB, Ghent, Belgium; Ghent University, Ghent, Belgium.

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**FTO and lncRNA FATALR1 coordinate FADD-RIPK1 complex formation**

Ying Chen, Vinh Thang Huynh, Amhed Vargas Velazquez, Vinay Tergaonkar [10'+5']

Presenter affiliation: Institute of Molecular and Cell Biology (IMCB), Agency for Science, Technology and Research (ASTAR), Singapore.

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**Regulation of apoptosis and necroptosis by caspase-8 and cFLIP**

Neil Stair, Johanna Seiler, Laurens Wachsmuth, Juliane Lohmann, Jonathan Mannion, Andrew Craxton, Pascal Meier, Marion MacFarlane, Manolis Pasparakis [10'+5']

Presenter affiliation: University of Cologne, Cologne, Germany.

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**Break**

**RIPK1 prevents ZBP1 and STING-mediated skin inflammation**

Simon Verdonck, Evelien Dierick, Jonathan Maelfait [20'+10']

Presenter affiliation: VIB, Ghent, Belgium; Ghent University, Ghent, Belgium.

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**The role of the cGAS/STING pathway in determining cell fate during mitotic arrest**

Xiao-Yun Wang, Enaam Alghamdi, Ryan Galea, Alexis Melo, Mathew Jones, Paul R. Clarke [10'+5']

Presenter affiliation: Frazer Institute, Brisbane, Australia.

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**S161 autophosphorylation is required for TNF-induced cecal damage and mouse death**

Tao Han, Chenchen Ruan, Huiyong Lin, Yuxia Zhang, Jiahuai Han, Yingying Zhang [10'+5']

Presenter affiliation: Xiamen University, Xiamen, China.

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**TNF-induced cell death in epithelial surfaces**

Francis Ka-Ming Chan [20'+10']

Presenter affiliation: Liangzhu Laboratory, The Second Affiliated Hospital of Zhejiang University, Hangzhou, China.

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WEDNESDAY, May 14—2:00 PM

**SESSION 5** CELL DEATH AND DISEASES

**Chairpersons:** **Francis Chan**, Zhejiang University, Hangzhou, China  
**Mathieu Bertrand**, Ghent University, Ghent, Belgium

**Ferroptosis, mechanisms and role in cancer**

Xuejun Jiang [20'+10']

Presenter affiliation: Memorial Sloan Kettering Cancer Center, New York, New York.

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**Exploring the intricate connections between metabolic reprogramming and stress response in cancer**

Almut Schulze [20'+10']

Presenter affiliation: German Cancer Research Center (DKFZ), Heidelberg, Germany.

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**Extra centrosomes trigger rapid BCL2-regulated apoptosis in multiple cell types**

Andreas Villunger, Dario Rizzotto, Paul Petermann, Vinzent Braun [10'+5']

Presenter affiliation: Medical University of Innsbruck, Innsbruck, Austria; CeMM, Research Center for Molecular Medicine of the Austrian Academy of Sciences, Vienna, Austria.

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**Efferocytosis defects promote inflammation and autoantibody production in Sjögren's disease**

Adrian Lee, Bo Shi, Sriram Gummadi, Ming W. Lin, Pamali Fonseka, Ivan Poon, Thanh Kha Phan, Joanne H. Reed [10'+5']

Presenter affiliation: La Trobe Institute for Molecular Sciences, La Trobe University,, Melbourne, Australia.

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**Metabolic regulation of necroptosis in vivo---Dual roles in pathology and exercise adaptation**

Liming Sun [20'+10']

Presenter affiliation: Chinese Academy of Science, Shanghai, China. 62

WEDNESDAY, May 14—7:00 PM

**SESSION 6** INFECTION AND IMMUNITY II

**Chairpersons:** **Lei Cheng**, Cell Research, Shanghai, China  
**Elizabeth Hartland**, Hudson Institute of Medical Research, Melbourne, Australia

**Interplay between cell death and coronavirus pathogenesis**

Hin Chu [20'+10']

Presenter affiliation: The University of Hong Kong, Hong Kong, China. 63

**Endoplasmic reticulum stress reprograms macrophage immunometabolism to restrict bacterial infection**

Elizabeth L. Hartland [20'+10']

Presenter affiliation: Hudson Institute of Medical Research, Clayton, Australia; Monash University, Clayton, Australia. 64

**Activation of caspase-8 by receptor interacting protein kinase3 dictates herpesvirus-mediated chronic lung disease**

Pratyusha Mandal, Anita L. McCormick, Aarthi Sundararajan, Prajakta Sawant, Johanna Bensalel, Liliana Hernandez, Julio Gallego-Delgado, Samuel H. Speck, Edward S. Mocarski [10'+5']

Presenter affiliation: Lehman College, New York, New York; CUNY, New York, New York. 65

**FXR suppresses colitis-associated colorectal cancer development via the interaction between tumor cell ferroptosis and M1 macrophage polarization**

Mengting Li, Lan Liu

Presenter affiliation: Zhongnan Hospital of Wuhan University, Wuhan, China. 66

**Nutrient sensing licenses NLRP3 inflammasome assembly and IL-1 cytokine release**

Sunny Shin [20'+10']

Presenter affiliation: University of Pennsylvania, Philadelphia, Pennsylvania. 67

**SESSION 7**      **INNATE IMMUNE SENSING AND CELL DEATH II**

**Chairpersons:** **Pascal Meier**, Institute of Cancer Research, London, United Kingdom  
**Andreas Strasser**, Walter & Eliza Hall Institute of Medical Research, Parkville, Australia

**The lethal pathways of *E. coli* sepsis in mice**

Ye-hsuan Sun, Lang Li, Yingying Zhang, [Jiahuai Han](#) [20'+10']

Presenter affiliation: Xiamen University, Xiamen, China.

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**ZBP1-initiated cell death during virus infections**

[Siddharth Balachandran](#) [20'+10']

Presenter affiliation: Fox Chase Cancer Center, Philadelphia, Pennsylvania.

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**Evolutionary divergence of caspase-regulated gasdermin-executed pyroptosis in metazoan**

[Shuai Jiang](#), Zihao Yuan [10'+5']

Presenter affiliation: Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China.

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**Genome-wide CRISPR screening identifies LSM12 as a key regulator of dsRNA-induced innate immune responses**

[Stephanie Tan](#), Tria Asri Widowati, Jayoung Ku, Sujin Kim, Yoosik Kim [10'+5']

Presenter affiliation: Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea.

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**Break**

**Molecular architecture of caspase-8 'signalling' platforms—From assembly to co-ordinated control of life/death decisions**

[Marion MacFarlane](#) [20'+10']

Presenter affiliation: University of Cambridge MRC Toxicology Unit, Cambridge, United Kingdom.

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**RNA as a trigger of NLRP1 inflammasome activation**

[Veit Hornung](#) [20'+10']

Presenter affiliation: Ludwig-Maximilians-Universität Munich, Munich, Germany.

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**NINJ1 regulates plasma membrane fragility under mechanical tension**

Yunfeng Zhu, Fang Xiao, Yiling Wang, Yufang Wang, Jialin Li, Dongmei Zhong, Zhirong Wang, Joshua Barbara, Christopher Plunkett, Mengxue Zeng, Changjie Cai, Xiangdong Guan, Scott Hammack, Liang Zhang, Zheng Shi, Fuli Xiang, Feng Shao, Jie Xu [10'+5']

Presenter affiliation: First Affiliated Hospital Sun Yat-sen University, Guangzhou, China.

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**Novel mechanisms of NLRP1 inflammasome activation—Lessons from viruses, insects and algae**

Franklin Zhong [10'+5']

Presenter affiliation: NTU, Singapore.

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**Kinase-dependent and -independent functions of RIPK3 in modulating inflammation and immunity**

Sudan He [20'+10']

Presenter affiliation: Suzhou Institute of Systems Medicine, Suzhou, China.

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THURSDAY, May 15—2:00 PM

**SESSION 8** CELL DEATH AND IMMUNITY: FROM BASIC MECHANISMS TO TRANSLATION

**Chairpersons:** **Sudan He**, Suzhou Institute of Systems Medicine, Suzhou, China  
**Siddharth Balachandran**, Fox Chase Cancer Center, Philadelphia, Pennsylvania, USA

**The power of death—Harnessing cell death to drive anti-tumour immune responses in patients**

Pascal Meier [20'+10']

Presenter affiliation: The Institute of Cancer Research, London, United Kingdom.

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**Gasdermin-mediated pyroptosis—From antibacterial to antitumor immunity**

Feng Shao [20'+10']

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

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**Novel mechanisms that coordinate cell death to activate anti-tumor immunity**

Steven X. Hou, Yuetong Wang [10'+5']

Presenter affiliation: Fudan University, Shanghai, China.

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**Enhancing BH3 mimetic drug induced killing of malignant cells for cancer therapy**

Sarah T. Diepstraten, John E. La Marca, Yin Yuan, Andrew H. Wei, Andreas Strasser, Gemma L. Kelly, Fiona C. Brown, Andrew W. Roberts [20'+10']

Presenter affiliation: The Walter and Eliza Hall Institute, Melbourne, Australia.

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**Stress granule formation drives ZBP1-dependent necroptosis in non-obstructive azoospermia and aging testes**

Hongen Lei, Dianrong Li, Jie Chen, Baowen Du , Kaiju Jiang, Tao Xu, Hu Han, Weiliang Fan, Long Tian, Xiaodong Wang [20'+10']

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

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THURSDAY, May 15—5:00 PM

**COCKTAILS and BANQUET**

FRIDAY, May 16—9:30 AM

**Visit to Old Suzhou  
(optional)**