Advances in Molecular Control of Cell Death I

*Karina R. Bortoluci, Federal University of São Paulo, Brazil
Kim Newton, Genentech, Inc., USA

The Cut that Makes the Difference – A Caspase-8 Story

Jonathan C. Kagan, Boston Children's Hospital, USA
Hao Wu, Harvard Medical School, Boston Children's Hospital, USA
Veit Hornung, Ludwig-Maximilians-University Munich, Germany
Daniel Kastner, National Institutes of Health, USA
Niklas A. Schmacke, Ludwig-Maximilians-University Munich, Germany
Bart Tummers, St. Jude Children's Research Hospital, USA

Workshop 1: Host Defense

*Russell E. Vance, University of California, Berkeley, USA
Youssef Aachoui, University of Arkansas for Medical Sciences, USA
Thomas Burke, University of California, Berkeley, USA
Laura Migliari Branco, University of São Paulo, Brazil
Alejandro Rodriguez Gama, Stowers Institute for Medical Research, USA
Lucas Secchim Ribeiro, University of Bonn, Germany
Kateryna Shkarina, University of Lausanne, Switzerland
Monica Varela, Leiden University, Netherlands

Advances in Molecular Control of Cell Death II

*Domagoj Vucic, Genentech, Inc., USA
Feng Shao, National Institute of Biological Sciences, China
Eicke Latz, University of Bonn, Germany
Oliver Florey, Babraham Institute, UK
Catherine L. Day, University of Otago, New Zealand

Workshop 2: Apoptosis, Necroptosis, Pyroptosis and Beyond (T3)

Why So Many Ways to Die? Apoptosis, Necroptosis, Pyroptosis and Beyond (T3)

November 19-23, 2019 • Casa Grande Hotel • Guarujá, São Paulo, Brazil

Scientific Organizers: Karina R. Bortoluci, Vishva M. Dixit and Andreas E. Strasser
Organized in collaboration with the São Paulo Research Foundation (FAPESP)
Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

Supported by a grant from Genentech

Global Health Travel Award Deadline: July 16, 2019 / Discounted Abstract & Scholarship Deadline: July 18, 2019 / Abstract Deadline: August 20, 2019 / Discounted Registration Deadline: September 19, 2019

THURSDAY, NOVEMBER 21
Cell Death and Cancer

*Gustavo P. Amarante-Mendes, Universidade de São Paulo, Brazil
Andreas E. Strasser, Walter and Eliza Hall Institute of Medical Research, Australia

Towards Targeting Mutant p53 for Cancer Therapy

Henning Walczak, University College London, Cancer Institute, UK

Necroptosis, Inflammation and Cancer

Ricardo Weinlich, Hospital Israelita Albert Einstein, Brazil

Bak and Bax in Cancer

Gabriela Brumatti, Walter and Eliza Hall Institute, Australia

Short Talk: RIPping Leukaemias Apart: The Role of RIP Kinase 1 in Acute Myeloid Leukaemia

Dhyan Chandra, Roswell Park Comprehensive Cancer Center, USA

Short Talk: Novel Nuclear-Mitochondrial Crosstalk Regulates Cell Death and Survival in Cancer

Eli Arama, Weizmann Institute of Science, Israel

Short Talk: Parthanatos Steps Out of the Shadows of Cell Death and into the Developmental Spotlight

Consequences of Cell Death

*Kim Newton, Genentech, Inc., USA
Vishva M. Dixit, Genentech, Inc., USA

The Non-Canonical Inflammasome Pathway

Jonathan C. Kagan, Boston Children's Hospital, USA
John Silke, Walter and Eliza Hall Institute of Medical Research, Australia

Mutations that Prevent Caspase Cleavage of RIPK1 Cause Inflammatory Disease

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For the most up-to-date details, visit https://www.keystonesymposia.org.
KONRAD ADEN, University Hospital Kiel, Germany
Short Talk: XBP-1 Coordinates DNA Damage Induced Stem Cell Repression in the Intestinal Epithelium via p53-Ddit4l-Dependent mTOR Inhibition

RANIAL HAFMAN, Stowers Institute for Medical Research, USA
Short Talk: Waiting to Die: Signalosome Nucleation Kinetically Controls Cell Fate

CAITLIN SCHNEIDER, McGill University, Canada
Short Talk: Migration-Induced Cell Shattering Due to DOCK8 Deficiency Causes a Type-2 Biased T Helper Response

**Poster Session 2**

**FRIDAY, NOVEMBER 22**

**Cell Death and Host Defense I**

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

PETR BROZ, University of Lausanne, Switzerland
Cell Death during Bacterial Infections

RICARDO T. GAZZINELLI, Fundação Oswaldo Cruz-CPqRR, Brazil
Caspe 8 Mediates Experimental Cerebral Malaria

RUSSELL E. VANCE, University of California, Berkeley, USA
Inflammasome-Dependent Cell Death in Response to Bacterial Pathogens

KARINA R. BORTOLUCI, Federal University of São Paulo, Brazil
Inflammasomes: Cell Death, Cytokines and Beyond

KATIE DOETS, University of California, Berkeley, USA
Short Talk: Investigating a Role for the NAIP/NLRC4 Inflammasome in Adaptive T Cell Responses

SERGIO COSTA OLIVEIRA, Universidade Federal de Minas Gerais, Brazil
Short Talk: Guanylate-Binding Protein 5 Licenses Caspase-11 for Gasdermin-D Mediated Host Resistance to Intracellular Bacterial Infection

**Cell Death and Host Defense II**

*Ricardo T. Gazzinelli*, Fundação Oswaldo Cruz-CPqRR, Brazil

EDWARD A. MIAO, University of North Carolina at Chapel Hill, USA
Infectious Models Reveal a Unique Role for Caspase-7 after Cytotoxic Lymphocyte Attack

DARIO S. ZAMBONI, University of São Paulo, Brazil
Inflammasomes in Host Response to Pathogenic Microbes

LARISSA D. CUNHA, Ribeirao Preto Medical School, University of Sao Paulo, Brazil
Short Talk: Regulation of Macrophage Function by LC3-Associated Phagocytosis

MARCEL DOERFLINGER, Walter and Eliza Hall Institute, Australia
Short Talk: Functional Overlap of Different Cell Death Pathways Ensures Host Protection against Intracellular Bacterial Pathogens

ANTONIA R. BASU, University of Pennsylvania, USA
Short Talk: Human Noncanonical Inflammasome Responses to Legionella Pneumophila

KSHITI MEERA PHULPHAGAR, Max Planck Institute of Biochemistry, Germany
Short Talk: Quantitative Spatial Proteomics Reveals Specific Nlrp3 and Cell Death Mediated Reprogramming of Essential Cellular Functions and Organelles

**Poster Session 3**

**SATURDAY, NOVEMBER 23**

**Manipulating Cell Death for Therapeutic Intervention**

*Andreas E. Strasser*, Walter and Eliza Hall Institute of Medical Research, Australia

Andrew W. Roberts, Walter and Eliza Hall Institute of Medical Research, Australia
Translational and Clinical Updates on Targeting BCL2 and MCL-1

Ksenija Slavic Obradovic, Boehringer Ingelheim RCV GmbH & Co KG, Austria
Short Talk: Enabling Cell Death: Genetic Dissection of Cellular Responses to SMAC Mimetic Treatment

Opher Shai Kornfeld, Genentech, Inc., USA
Short Talk: IRF2 Transcriptionally Induces GSDMD Expression for Pyroptosis

Domagoj Vucic, Genentech, Inc., USA
Regulation of Inflammatory Cell Death Signaling by RIP Kinases

Wenlin Shao, AstraZeneca, USA
Broad Opportunity of Cell Death Agents as Mono- and Combination Therapies in Haematological and Solid Cancers

Pedro Elias Marques, KU Leuven, Belgium
Short Talk: Displacement of Necrotic Cell Debris In Vivo by a Chemokine-Based Peptide Dampens Tissue Inflammation

Jun Sun, University of Illinois at Chicago, USA
Short Talk: Intestinal Vitamin D Receptor Determines Cell Fate via Apoptosis and Autophagy

Lynn Wong, University of Zurich, Switzerland
Short Talk: TNFR2 Induced Priming of NLRP3-Inflammasome via RIPK1 Leads to Pyroptosis in XIAP Deficient Cells

**Workshop 2: Cancer**

*Laura D. Attardi*, Stanford University School of Medicine, USA

Silvina Odet Busto*, Instituto do Câncer do Estado de São Paulo, Brazil
A New Imidazacridine Derivate with Antineoplasic Activity in Melanoma

Annette Jacobsen, Walter and Eliza Hall Institute, Australia
Up Close and Personal with the Necrotic Death Effector, MLK: Lessons Learned from Mutagenesis Studies

Bruna dos Santos Mendonça, Brazilian National Cancer Institute, Brazil
Nuclear Localization of X-Linked Inhibitor of Apoptosis Protein (XIAP): Impact on Drug Resistance, Cell Growth and Prognosis in Breast Cancer

Ancely F. dos Santos, University of São Paulo, Brazil
Ferroptosis Contributes to MB-PDT Efficacy on Killing Human PDAC Cells

Maria Tanzer, Max Planck Institute of Biochemistry, Germany
Phosphoproteome and Secretome Analysis Reveal Differences between TNF-Induced Apoptosis and Necroptosis

Angelica Beate Winter Boldt, Universidade Federal do Paraná, Brazil
At the Edge of Survival: Genetic Associations for Cell Death in Pemphigus Folliculosis
KEYSTONE SYMPOSIA
on Molecular and Cellular Biology

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* Session Chair † Invited but not yet accepted  Program current as of November 12, 2020. Program subject to change. Meal formats are based on meeting venue. For the most up-to-date details, visit https://www.keystonesymposia.org.
Mikaela Catherine Coleman, University of Sydney, Australia  
Dissecting the Ways to Die: A Single-Cell Assay to Simultaneously Quantify Cell Loss and Discriminate Death Program

Keynote Address
*Vishva M. Dixit*, Genentech, Inc., USA  
*Shigekazu Nagata*, IFReC, Osaka University, Japan  
*Phosphatidylserine-Dependent Efferocytosis and Entosis*

Cell Death in Inflammatory Diseases
*John Silke*, Walter and Eliza Hall Institute of Medical Research, Australia  
*Francis Ka-Ming Chan*, Duke University, USA  
*RIPK3 in Anti-Viral Immunity and Tissue Homeostasis*

Thirumala-Devi Kanneganti, St. Jude Children's Research Hospital, USA  
*Regulation of Inflammasome Activation and Cell Death*

Laura D. Attardi, Stanford University School of Medicine, USA  
*Deconstructing p53 Cellular Responses and Transcriptional Programs in Tumor Suppression and Developmental Syndromes*

Meeting Wrap-Up: Outcomes and Future Directions
*Andreas E. Strasser*, Walter and Eliza Hall Institute of Medical Research, Australia

SUNDAY, NOVEMBER 24  
Departure