

Seoul, South Korea
May 31st – June 2nd, 2018

Venue:

Cultural Center, Seoul National University
Gwanak Campus, Building 73
1 Gwanak-ro, Gwanak-gu, Seoul 08826, South Korea

International Cell Death Society Meeting 2018:

**“About canonical, non-canonical, and immunogenic
cell death: basic mechanisms and translational
applications”**

Proceedings and Program

Organizers:

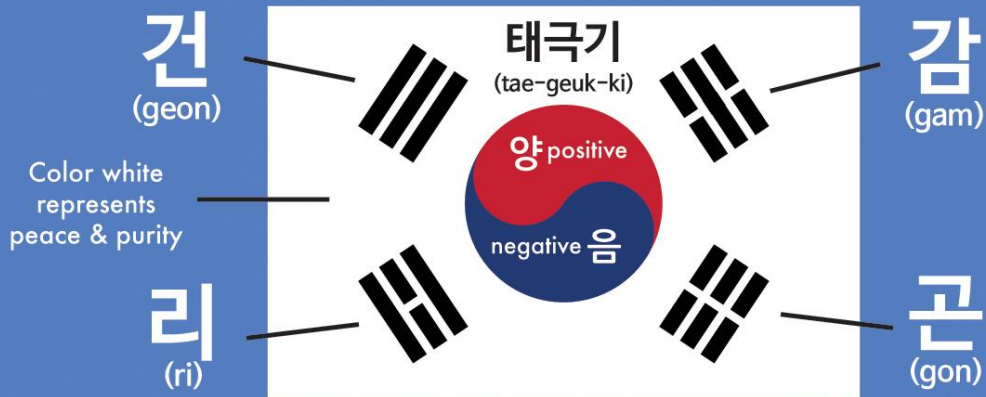
Marc Diederich, Richard Lockshin, Zahra Zakeri

This meeting is organized by
Recherches Scientifiques Luxembourg asbl,
the College of Pharmacy of Seoul National University

in collaboration with the
International Cell Death Society

(Credit cover art: Lee et al., Cancer Lett., 2018)

MEANING OF THE KOREAN FLAG



What each trigram represents



Celestial Body



Season



Cardinal Direction



Virtue

humanity

justice

intelligence

courtesy

Family

father

daughter

son

mother

Natural Element



Meaning

justice

fruition

wisdom

vitality

source: https://en.wikipedia.org/wiki/Flag_of_South_Korea

(<https://domandhyo.com/category/korea>)

Thursday May 31, 2018

9:00 – 9:30: Introductory and welcome address

Marc Diederich, College of Pharmacy, SNU, Local organizer

Hee Young Shin, Vice President of Research, SNU

Bong-Jin Lee, Dean, College of Pharmacy, SNU

Young-Joon Surh, Director of TuMeR, College of Pharmacy, SNU

Zahra Zakeri, President ICDS, Queens College of the City University of New York, USA

9:30 – 10:30 Award lecture (Chair: Zahra Zakeri)

Richard Lockshin (Queens College of the City University of New York, USA)

J. Marie Hardwick (Pharmacology and Molecular Biology, Johns Hopkins School of Medicine, USA)

The death of pathogenic fungi

10:30 – 11:00: Coffee break

Session 1: Immune-mediated cell death mechanisms (Chair: Sarit Larisch)

11:00 – 11:30: Luis Alberto Baena-Lopez (University of Oxford, UK)

Unknown biological features of caspase-activating cells uncovered by novel apical caspase reporters

11:30 – 12:00: Jerry Edward Chipuk (Icahn School of Medicine at Mount Sinai, New York, USA) MDM2 integrates cellular respiration and apoptotic signaling through NDUFS1 and the mitochondrial network

12:00 - 12:30: Marie-Lise Gougeon (Institut Pasteur, Paris, France)

Innate immunity and viral persistence; contribution of alarmins

12:30 – 13:00: Hyunah Lee (R&D Center, Pharmicell Co., South Korea)

Induction of immunogenic cell death of tumors by newly synthesized heterocyclic quinone derivatives

13:00 – 14:00: Lunch break

Session 2: Necroptotic cell death pathways (Chair: Marianne Cronje)

14:00 – 15:00: Peter Vandenabeele (VIB, Department for Molecular Biomedical Research, Ghent, Belgium): Molecular mechanisms of necroptosis execution

15:00 – 15:30: Seamus J. Martin (Molecular Cell Biology Laboratory, The University of Dublin, Ireland): An Inflammatory Perspective on Necroptosis

15:30 – 16:00: Eun-Woo Lee (Korea Research Institute of Bioscience & Biotechnology (KRIBB), Daejeon, South Korea): Post-translational control of RIPK3 in necroptosis

16:00 – 16:30: Coffee break

Session 3: Cell death pathways I (Chair: Samuel Katz)

16:30 – 17:00: Barbora Boyer-Orlikova (College of Pharmacy, Seoul National University, South Korea): PARP-1 dependent-like cell death induced by indolequinones in human leukemia

17:00 – 17:20: Sander Bekeschus (Leibniz-Institute for Plasma Science and Technology, Greifswald, Germany) Reactive Species in Immunogenic Cancer Cell Death

17:20 - 17:40: Seung-Ju Cho (College of Pharmacy, Seoul National University, Korea)

Selective elimination of culture-adapted human embryonic stem cells with BH3 mimetic

17:40 – 18:00: David Calianese (Rutgers, Biomedical and Health Sciences, Newark, USA)

Targeting Phosphatidylserine/TAM receptor/PD-L1 axis as a vulnerability in cancer

18:00 – 18:20: Myeong-Gyun Kang (Ulsan National Institute of Science and Technology (UNIST), Korea) Spatiotemporal proximity crosslinking by light activation (Spot-light)

reveals RNA processing machinery on the mitochondria in live cells

18:30 - 19:30: Welcome reception

Friday June 1st, 2018

Session 4: Cell death pathways II (Chair: Raymond Birge)

9:00 – 9:30: Eli Arama (Weizmann Institute of Science, Israel): There is More than One Way to Die: A DNase II-Dependent Cell Death Program in Drosophila

9:30 – 10:00: Kyeong Sook Choi (Ajou University, South Korea): Paraptosis in the anti-cancer arsenal of natural products

10:00 – 10:30: Hun Taeg Chung (University of Ulsan, Republic of Korea)

Carbon Monoxide Ameliorates Acute Hepatitis-Mediated Liver Injury through the Autophagy/Lysosomal Pathway

10:30 – 11:00: Coffee break

Session 5: Cell death pathways III (Chair:)

11:00 – 11:30: Tugba Bagci (Molecular Biology and Genetics, Koc Univ. School of Medicine, Turkey): Loss of function screens to interrogate mechanisms of chemotherapy resistance in cancers

11:30 – 12:00: Michael Schnekenburger (LBMCC, Luxemburg): Non-canonical cell death by sirtuin inhibitors

12:00 – 12:30: Yong Sang Song (College of Medicine, Seoul National University, Korea) Clinical implications of autophagy and ER stress in ovarian cancer

12:30 – 13:00: Han-Jung Chae (Department of Pharmacology and Institute of New drug Development, Medical School, Chonbuk National University, Jeonju, Korea) ER stress and autophagy

13:00 – 14:00: Lunch break

Board meeting of the International Cell Death Society

Session 6: Novel mechanisms in cell death (Chair: Maria Entezari)

14:00 – 15:00: Lorenzo Galluzzi (Weill Cornell Medical College, USA and Université Paris Descartes, France): Danger, death and immunity in anticancer therapy

15:00 – 15:30: Shazib Pervaiz (National University of Singapore, Singapore, Singapore): Pro-oxidant milieu promotes phosphorylation-dependent stability of the oncoprotein c-myc

15:30 – 16:00: Sharad Kumar (Cancer and Cell Biology, Center for Cancer Biology, University of South Australia): Regulation of autophagy-dependent cell death in Drosophila

16:00 – 16:30: Coffee break

16:30 – 18:30: Poster presentation session

19:00 – 21:00: Gala dinner

Saturday June 2nd, 2018

Session 7: Innovative cell death pathways (Chair: Flavia Radogna)

9:00 – 9:30: Shigekazu Nagata (Biochemistry and Immunology, Osaka University, Japan): Exposure of phosphatidylserine, and phosphatidylserine-dependent efferocytosis

9:30 – 10:00: Luca Scorrano (Dept. of Biology, University of Padua, Italy): Targeting the Opa1-dependent cristae remodeling pathway to enhance cancer cell death and block cancer angiogenesis

10:00 – 10:30: Samuel G. Katz (Yale University School of Medicine, New Haven, USA)
BOK controls apoptosis by calcium transfer through ER-mitochondrial contact sites

10:30 – 11:00: Coffee break

Session 8: Compound-mediated regulation of alternative cell death (Chair: Claudia Cerella)

11:00 – 11:30: Young-Joon Surh (College of Pharmacy, Seoul National University, South Korea): *Helicobacter pylori*-induced phosphorylation of STAT3 promotes mitophagy in human gastric epithelial cells

11:30 – 12:00: Injae Shin (Department of Chemistry, Yonsei University, Seoul, South Korea): A synthetic ion transporter that disrupts autophagy and induces apoptosis

12:00 – 12:30: Young-Il Hahn (Tumor Microenvironment Research Center and Research Institute of Pharmaceutical Science, Seoul National University, Seoul 08826, South Korea)
Curcumin-induced apoptosis in H-Ras transformed human mammary epithelial cells: Cysteine 259 of STAT3 as a putative target

12:30 - 13:00: Marc Diederich (College of Pharmacy, Seoul National University, South Korea)
Natural compound regulators of alternative cell death pathways

13:00 – 14:00: Lunch break

14:00 – 19:00: City trip