MAC 2021 | SINGAPORE

MITOCHONDRIA, APOPTOSIS & CANCER

VIRTUAL SYMPOSIUM

25th – 28th November 2021

08:00 – 10:30 EDT | 14:00 – 16:30 CET | 21:00 – 23:30 SGT

NUS National University of Singapore | Department of Physiology, Yong Loo Lin School of Medicine

Organized by: SHAZIB PERVAIZ & JIRI NEUZIL

Session 1: November 25, 2021 - Mitochondrion: A multi-faceted Organelle

Chairs: Jiri Neuzil & Michelangelo Campanella

Time: 21:00 – 23:30 (SG)/ 08:00-10:30 (New York) / 14:00-16:30 (Central Europe)

20:30 – 21:00 07:30 – 08:00 13:30 – 14:00	Admission of participants into the webinar
21:00 – 21:10 08:00 – 08: 10 14: 00 – 14: 10	Opening Address/ Introduction: **Shazib Pervaiz** *Chair, MAC Singapore 2021 Organizing Committee* Yong Loo Lin School of Medicine, National University of Singapore
21:10 – 21: 15 08:10 – 08: 15 14: 10 – 14: 15	Introduction of Keynote Speaker & Session 1 Chair: **Jiri Neuzil** *Co-Chair, MAC 2021 Organizing Committee* School of Pharmacy and Medical Science, Griffith University, Qld, Australia Institute of Biotechnology, CAS, Czech Republic
21:15 – 22: 00 08:15 – 09: 00 14: 15 – 15: 00	**Keynote Lecture: Luca Scorrano** *Professor of Biochemistry, Department of Biology, University of Padova, Italy* Keeping mitochondria in shape: a matter of cell life and death
22:00 – 22: 15 09:00 – 09:15 15:00 – 15:15	**Maria Livia Sassano** *VIB-KUL Center for Cancer Biology, Department for Cellular and Molecular Medicine* Unravelling the role of PERK-E-Syt1 interaction in mitochondria lipid trafficking and metabolism at the ER-mitochondria contact sites
22:15 – 22:20 09:15 – 09:20 15:15 – 15:20	*Intermission*
22: 20 – 22:45 09:20 – 09:45 15:20 – 15:45	**Stephen Tait** *Professor, Beatson Institute for Cancer Research, University of Glasgow, UK* Dead cells talking: Cellular Transfer of Apoptotic Resistance
22:45 – 23:00 09:45 – 10:00 15:45 – 16:00	**Zuzana Nahacka** *Molecular Therapy Group, Institute of Biotechnology, Czech Academy of Sciences* The role of Miro1 in mitochondrial transfer in cancer
23:00 – 23:30 10:00 – 10:30 16:00 – 16:30	**Jessica Spinelli** *Whitehead Institute of Biomedical Research, MIT, USA* Leveraging mass spectrometry to uncover mitochondrial adaptations to hypoxia exposure
END OF SESSION 1	

Session 2: November 26, 2021 - Mitochondria and Metabolism

Chairs: Boris Zhivotovsky and Catherine Brenner

Time: 21:00 – 23:30 (SG)/ 08:00-10:30 (New York) / 14:00-16:30 (Central Europe)

20:30 – 21:00 07:30 – 08:00 13:30 – 14:00	Admission of participants into the webinar
21:00 – 21:30 08:00 – 08: 30 14:00 – 14:30	**Nathalie Mazure** *The French National Centre for Scientific Research (CNRS); France* *Senior Researcher, INSERM; The Mediterranean Centre for Molecular Medicine (C3M)* Cancer, Hypoxia and Primary Cilium
21:30 – 21:45 08:30 – 08:45 14:30 – 14:45	**Norbert Lehming** *Dept of Microbiology and Immunology, Yong Loo Lin School of Medicine,* *National University of Singapore* How the TCA cycle enzyme Fumarase aids DNA Repair
21:45 – 22:00 08:45 – 09:00 14:45 – 15:00	**Awatef Allouch** *Université Paris-Saclay, Inserm UMR1030* The combination of Gadolinium-based nanoparticles AGuIX with ionizing radiation triggers the pro-inflammatory reprogramming of tumor-associated macrophages
22:00 – 22:05 09:00 – 09:05 15:00 – 15:05	*Intermission*
22:05 – 22:35 09:05 – 09:35 15:05 – 15:35	**Erik Norberg** *Associate Professor of Metabolism, Department of Physiology and Pharmacology,* *Karolinska Institutet* Deubiquitinating Lung Cancer Metabolism
22:35 – 22:50 09:35 – 09:50 15:35 – 15:50	**Sona Stemberkova Hubackova** *Institute of Biotechnology, Czech Academy of Sciences* Targeting mitochondria as a novel approach to treatment of metabolic diseases: Repurposing of an anti-cancer agent
22:50 – 23:20 09:50 – 10:20 15:50 – 16:20	**Emma M. Kerr** *RUK Werth Trust Fellow, Group Leader in Cancer Metabolism and Therapy,* *Patrick G. Johnston Centre for Cancer Research, Queen's University Belfast* Targeting mitochondrial metabolism to overcome drug resistance in Kras mutant cancers
END OF SESSION 2	

Session 3: November 27, 2021 - Mitochondria and the Epigenome

Chairs: Ildiko Szabo and Boris Turk

Time: 21:00 – 23:30 (SG)/ 08:00-10:30 (New York) / 14:00-16:30 (Central Europe)

20:30 – 21:00 07:30 – 08:00 13:30 – 14:00	Admitting of Participants into the webinar
21:00 – 21:30 08:00 – 08: 30 14:00 – 14:30	**Wee Wei Tee** *Institute of Molecular and Cell Biology, A*STAR* Chromatin plasticity in development and disease
21:30 – 21:45 08:30 – 08:45 14:30 – 14:45	**Hsin Yao Chiu** *Department of Physiology, National University of Singapore* Role of mitochondrial calcium in embryonal rhabdomyosarcoma
21:45 – 22:00 08:45 – 09:00 14:45 – 15:00	**Yolanda Martí-Mateos** *Centro Nacional de Investigaciones Cardiovasculares Carlos III* The fate of Oma1KO mice: earlier death bearing tumors
22:00 – 22:05 09:00 – 09:05 15:00 – 15:05	*Intermission*
22:05 – 22:35 09:05 – 09:35 15:05 – 15:35	**Hsing-Jien Kung** *Academician, Academia Sinica; Chair Professor, Taipei Medical University; President Emeritus, NHRI; Distinguished Professor Emeritus, UC Davis* Arginine as an epigenetic regulator of mitochondrial activities in cancer cells
22:35 – 22:50 09:35 – 09:50 15:35 – 15:50	**Lyndsey Flanagan** *Dept. of Physiology and Medical Physics Royal College of Surgeons in Ireland* ABT-199 and epigenetic modifiers: promising novel combinations for the treatment of Multiple Myeloma
22:50 – 23:20 09:50 – 10:20 15:50 – 16:20	**Graziano Martello** *Associate Professor of Histology, Department of Biology, University of Padova* Metabolic control of DNA methylation in pluripotent cells
END OF SESSION 3	

Session 4: November 28, 2021 - Mitochondria and Cell Fate

Chairs: Patrizia Agostinis and Shazib Pervaiz

Time: 21:00 – 23:30 (SG)/ 08:00-10:30 (New York) / 14:00-16:30 (Central Europe)

20:30 – 21:00 07:30 – 08:00 13:30 – 14:00	Admission of participants into the webinar
21:00 – 21:30 08:00 – 08: 30 14:00 – 14:30	**Eleonora Leucci** *Assistant Professor, Department of Oncology, KU Leuven, Belgium* LncRNA-orchestrated changes in mitochondrial translation and dynamics confer therapy resistance in melanoma
21:30 – 21:45 08:30 – 08:45 14:30 – 14:45	**Jie Qing Eu** *Cancer of Science Institute & Department of Physiology,* *National University of Singapore* MDM2 mitochondrial translocation mediates metabolic reprogramming towards OXPHOS in TKI-resistant oncogene-addicted cancer
21:45 – 22:15 08:45 – 09:15 14:45 – 15:15	**Triona Ni Chonghaile** *Physiology and Medical Physics, Royal College of Surgeons in Ireland* Differentiation: a path to venetoclax resistance in leukemia
22:15 – 22:20 09:15 – 09:20 15:15 – 15:20	*Intermission*
22:20 – 22:35 09:20 – 09:35 15:20 – 15:35	**Stephen Jun Fei Chong** *Dana-Farber Cancer Institute, Department of Medical Oncology* Targeting BCL-2 family protein phosphorylation in venetoclax resistant lymphoid malignancies
22:35 – 23:40 09:35 – 10:40 15:35 – 16:40	Introduction of Keynote Speaker & Session 4 Chair: **Shazib Pervaiz** *Chair, MAC Singapore 2021 Organizing Committee* Yong Loo Lin School of Medicine, National University of Singapore
22:45 – 23:20 09:45 – 10:20 15:45 – 16:20	**Keynote Lecture: Jean-Claude Martinou** *Professor, Department of Cell Biology, University of Geneva* Metabolism of cysteine in cancer cells
23:20 – 23:30 10:20 – 10:30 16:20 – 16:30	MAC Portugal 2023: **Paulo J. Oliveira** Center for Neuroscience and Cell Biology, University of Coimbra
23:30 – 23:45 10:30 – 10:45 16:35 – 16:45	Closing Address: **Shazib Pervaiz and Jiri Neuzil**
END OF SESSION 4	

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