A Matter of Life or Death: Mechanisms, Models and Therapeutic Opportunities Programme

Bergamo, Italy

12 - 14 February 2020

Scientific Programme

Wednesday 12th February 2020

00:00 Q&A: 14:10 - 14:25

12:00 REGISTRATION
until 13:30

12:30 WELCOME LUNCH & TRADE EXHIBITION

13:30 CONFERENCE WELCOME
Scientific Programme Committee

13:40 SESSION 1: CANCER METABOLISM, AUTOPHAGY AND TUMOR MICROENVIRONMENT
Chair: Verena Jendrossek

13:40 THE EMBO KEYNOTE LECTURE
Sharon Tooze
The Francis Crick Institute, UK
"Molecular mechanisms of autophagosome formation"

14:25 **Katja Simon**
Kennedy Institute of Rheumatology, UK
“Autophagy in cell fate decisions in the immune & hematopoietic system"

14:25 Q&A: 14:45 - 14:55

14:55 **Monica Vara-Perez**
VIB – KULeuven, Belgium
Proffered Paper 1: "BNIP3 sustains HIF1 to promote melanoma growth and dissemination"

14:55 Q&A: 15:05 - 15:10

15:10 EXHIBITOR INTRODUCTIONS
60-second intro by each company

15:20 COFFEE BREAK & TRADE EXHIBITION

15:50 **Patrizia Agostinis**
VIB – KULeuven, Belgium
"Autophagy in tumor angiogenesis"

15:50 Q&A: 16:10 - 16:20

16:20 **Almut Schulze**
DKFZ, Germany
“Understanding the complex role of lipid metabolism in cancer”

16:20 Q&A: 16:40 - 16:50

16:50 Sarah-Maria Fendt
VIB-KU Leuven, Belgium
"The role of metabolism in metastasis formation"

16:50 Q&A: 17:10 - 17:20

17:20 POSTER SPOTLIGHTS
3 top-scoring abstracts (posters 1-3) presented in 3 minute 'flash talks'

17:30 NETWORKING RECEPTION
An opportunity to make new connections over a drink and some light food

18:00 POSTER DISCUSSION SESSION 1
until 19:30
Posters 1-30 will be presented

Thursday 13th February 2020

08:30 POSTER VIEWING & TRADE EXHIBITION
until 09:00
Coffee / tea available

08:45 INDUSTRY SPOTLIGHT - VECTORBUILDER
Matthew Wheeler
"VectorBuilder - Advances in vector construction and virus packaging"

09:00 SESSION 2: CELL DEATH MECHANISMS
Chair: Peter de Keizer

09:00 KEYNOTE LECTURE
René Bernards
NKI, Netherlands
"Exploiting senescence for the treatment of cancer"

09:10 Q&A: 09:30 - 09:45

09:45 **Nataly Kravchenko-Balasha**
The Hebrew University of Jerusalem, Israel
Proffered Paper 2: "Deciphering the intra-tumor and inter-patient signaling heterogeneity in cancer for the rational design of patient specific drug cocktails"

09:45 Q&A: 09:55 - 10:00

10:00 **David Wallach**
Weizmann Institute of Science, Israel
"Novel insights into the functional roles of the signaling pathway for necroptotic death"

10:00 Q&A: 10:20 - 10:30

10:30 COFFEE BREAK & TRADE EXHIBITION

11:05 **Marion MacFarlane**
MRC Toxicology Unit, UK
"Uncovering the Therapeutic Potential of BH3-mimetics in Patient-relevant Pre-clinical Models of Mesothelioma''

11:05 Q&A: 11:25 - 11:35

11:35 **Samuel Sidi**

Icahn School of Medicine at Mount Sinai, USA
Proffered Paper 3: "FANCI Functions as a Repair/Apoptosis Switch in Response to DNA Crosslinks"

11:35 Q&A: 11:45 - 11:50

11:50 **Dagmar Kulms**
TU Dresden, Germany
"Caspase-8 promotes progression of p53-proficient tumors"

11:50 Q&A: 12:10 - 12:20

12:20 POSTER SPOTLIGHTS
3 top-scoring abstracts (posters 31-33) presented in 3 minute 'flash talks'

12:30 LUNCH & TRADE EXHIBITION

13:00 POSTER DISCUSSION SESSION 2
Posters 31-59 will be presented

14:30 SESSION 3: SENESCENCE, CANCER AND THERAPEUTIC TARGETING
Chair: Patrizia Agostinis

14:30 **Manuel Serrano**
ICREA Professor, IRB Barcelona, Spain
"Cellular senescence as a driver of multiple human diseases"

14:30 Q&A: 14:50 - 15:00

15:00 **Marco Demaria**
ERIBA/UMCG, The Netherlands
"Modulating senescence-associated phenotypes to prevent side effects of cancer therapy"

15:00 Q&A: 15:20 - 15:30

15:30 **Olivier E. Pardo**
Imperial College, UK
Proffered Paper 4: "Targeting the S6 kinase, RSK4, prevents chemoresistance and metastasis in lung cancer"

15:30 Q&A: 15:40 - 15:45

15:45 COFFEE BREAK & TRADE EXHIBITION

16:15 **Laura Conti**
MBC, University of Torino, Italy
Proffered Paper 5: "The immunotargeting of the xCT cystine/glutamate antiporter targets cancer stem cells and potentiates the efficacy of Her2-targeted immunotherapies in breast cancer"

16:15 Q&A: 16:25 - 16:30

16:30 **Peter de Keizer**
UMC Utrecht, The Netherlands
"Targeting Heterogeneity in Senescence against Aging and Cancer"

16:30 Q&A: 16:50 - 17:00

17:00 **Daniel Murphy**
CRUK Beatson Institute, UK
"Partners in crime: MYC, RAS and cell-extrinsic mechanisms of oncogenic cooperation"

17:00 Q&A: 17:20 - 17:30

17:30 DISCUSSION FORUM
until 18:30
Chaired by Patrizia Agostinis, the panel of invited speakers will tackle this important question.
"Novel frontiers in regulated cell death and senescence: what is the desirable type of cell inactivation in cancer therapy?"

19:00 CONFERENCE DINNER
Optional ticketed dinner at Taverna Valtellinese

Friday 14th February 2020

08:30 POSTER VIEWING & TRADE EXHIBITION
until 09:00
Coffee / tea available

08:45 INDUSTRY SPOTLIGHT - TECAN
Stefan Haberstock
"Optimization of drug titration in cell based assays"

09:00 MEET THE EXPERTS TALK
Silvia Formenti & Verena Jendrossek
An interactive session with a focus on women in science where our two experts will share from their personal and professional perspectives on the path to scientific leadership.

09:45 SESSION 4: HARNESSING CELL DEATH AND CANCER VULNERABILITIES FOR CANCER THERAPY
Chair: Marion MacFarlane

09:45 **Clemens Schmitt**
MDC Berlin, Germany
"Post-senescence: a matter of life and death"

09:45 Q&A: 10:05 - 10:15

10:15 **Verena Jendrossek**
Universität Duisburg-Essen, Germany
"Novel opportunities for a biologic optimization of radiotherapy"

10:15 Q&A: 10:35 - 10:45

10:45 COFFEE BREAK & TRADE EXHIBITION

11:15 **Serk In Park**
Korea University College of Medicine, South Korea
Proffered Paper 6: "Mobilization of Monocytic Myeloid-Derived Suppressor Cells (MDSC) Is Regulated by Osteoblast Activation by PTH1R"

11:15 Q&A: 11:25 - 11:30

11:30 **Brent Stockwell**
Columbia University, USA
"Ferroptosis: mechanisms and therapeutic potential"

11:30 Q&A: 11:50 - 12:00

12:00 CLOSING KEYNOTE
Silvia C. Formenti

Weill Cornell Medicine, USA
"Radiotherapy to convert the tumor into an in situ vaccine"

12:00 Q&A: 12:30 - 12:45

12:45 CONFERENCE SUMMARY
Scientific Programme Committee

13:00 LUNCH & DEPART