



SCIENTIFIC PROGRAM

(preliminary at February 16th, 2018)

THURSDAY APRIL 19TH

11.00 WELCOME

11.10-11.50

OPENING SESSION

chair: Antonella Canini

11.10 - 11.25 **Albrecht Reichle** Coping with the multi-dimensionality of communication in cancer

11.25 - 11.50 **Lina Ghibelli** What besides oncogenes? Revisiting the seed and soil theory

11.50-12.45

SESSION I - NUCLEAR RECEPTOR AGONISTS TO REMODULATE CANCER TISSUE

chair: Clara Nervi, Karolien De Bosscher

11.40 - 12.00 **Karolien De Bosscher** (Gent, NL) Glucocorticoid receptor crosstalk mechanisms in inflammation and cancer

12.00-12.15 **Luca Piemontese** (Bari, I) Therapeutic potential of PPAR ligands: towards new and intriguing goals.

12.15-12.30 **Francesco Capradossi** (Roma, I) Durable control of cancer cell growth combining nuclear receptor agonists

12.30-12.45 **Fulvia Farabegoli** (Bologna, I) EGCG and IIF limit Be(2)C neuroblastoma cell viability and sphere formation

12.45-13.45 Lunch break

13.45-15.10

SESSION II – MODULATING CANCER MICROENVIRONMENT

Chair: Raquel Blazquez, Halina Was

- 13.45-14.05 **Raquel Blazquez** (Regensburg, D) PI3K: A master regulator of brain metastasis-promoting MΦ/microglia
- 14.05-14.20 **Cesare Gargioli** (Roma, I) Homeostasis of adult and developing tissues in health and disease
- 14.20-14.35 **Francesca Corsi** (Roma, I) Abrogating chemotherapy-induced tumor repopulation with nanoparticles
- 14.35-14.55 **Halina Was** (Poland) Drugs-treated cancer cells display stem-like and senescent cell features
- 14.55-15.10 **Gaia Favero** (Brescia, I) Melatonin in cancer: potential mechanism(s) of action

15.10-16.00

SESSION III - REPROGRAMMING CANCER METABOLISM

Chair: Marina Kreutz, Kathrin Renner

- 15.10-15.30 **Corinna Seliger** (Regensburg, D) Dual inhibition of STAT3 by Statin and metformin in glioma cells
- 15.30-15.45 **Kathrin Renner** (Regensburg, D) Non-steroidal anti-inflammatory drugs in the context of immunotherapy
- 15.45-16.00 **Marina Kreutz** (Regensburg, D) Metabolic targeting with metformin and low doses NSAIDs induces apoptosis

16.00-16.30 Coffee break

16.30-17.35

SESSION IV - TUMORS: REPROGRAMMED STROMA AND ORGAN FUNCTIONS

Chair: C Christopher Gerner, Albrecht Reichle

- 16.30-16.50 **Christopher Gerner** (Vienna, A) Integrative Metabolomics with Impact on Survival in Serous Ovarian Cancer.
- 16.50-17.05 **Besnik Muqaku** (Vienna, A) Multi-omics analysis of serum samples
- 17.05-17.20 **Lukas Janker** (Vienna, A) Curcumin exerts its antitumor effects in a context dependent fashion
- 17.20-17.35 **Laura Niederstätter** (Vienna, A) Immune cells strategies for coping with metabolic stress as cancer model

17.35-18.20

SESSION V - NATURAL COMPOUNDS AND NANOMATERIALS FOR BIOMODULATION

Chair: Marc Diederich, Claudia Crestini

- 17.35-17.55 **Marc Diederich** (Seoul, South Korea) Non-canonical cell death by natural and/or epigenetically active compounds
- 17.55-18.05 **Valentina Nanni** (Roma, I) Spartium junceum L. extract induces senescence in B16-F10 cells
- 18.05-18.20 **Claudia Crestini** (Roma, I) Stabilization of natural compounds for anticancer therapy
- 18.20-18.30 **Mario Pieroni (ZERYNTHIA) and Dora Stiefelmeier (RAMradioartemobile): Sounds and voices for art and science (FROM SOUND ART MUSEUM)**

20.00 Conference Dinner

FRIDAY APRIL 20TH

9.00-10.35

SESSION VI – TARGETING EPIGENETICS FOR CANCER CONTROL

Chair: Lucia Altucci, Patrizia Filetici

09.00-09.20 **Lucia Altucci** (Napoli, I) RIP1-HAT1-SirT complex targeting in treatment and prevention of cancer

09.20-09.40 **Alessandra Covre** (Siena, I) Epigenetic Immunomodelling to Improve the Efficacy of Cancer Immunotherapy

09.40-10.00 **Ambra di Veroli** (Roma, I) Prognostic factors of response to hypomethylating agents in higher-risk MDS

10.00-10.15 **Patrizia Filetici** (Roma, I) Acetylation, Metabolism and Respiration from model system to human cells

10.15-10.35 **Clara Nervi** (Roma, I) miRNA in the epigenetic control of cancer

10.35-11.05 Coffee break

11.05 - 12:10

SESSION VII - REPROGRAMMING COMMUNICATIVE NETWORKS IN TUMOR SYSTEMS

Chair: Maria Teresa Voso, Raffaella Chiaramonte

11.05-11.25 **Albrecht Reichle** (Regensburg, D) Anakoinosis: Reprogramming communicative networks in tumor systems, a meta-analysis

11.25-11.40 **Raffaella Chiaramonte** (Milan, I) Targeting Notch to induce anakoinosis in multiple myeloma niche

11.40-11.55 **Thomas Vogt** (Homburg-Saar, D) Metronomic chemotherapy and biomodulation in cutaneous angiosarcomas

11.55-12.10 **Michael Rechenmacher** (Regensburg, D) Communicative reprogramming non-curative hepatocellular carcinoma

12.10- 13.05

SESSION VIII – A HEAT SHOCK PROTEIN-ER STRESS-AUTOPHAGY AXIS IN CANCER?

Chair: Gabriele Multhoff, Thomas Vogt

12.10-12.30 **Gabriele Multhoff** (Munich, D) Theranostic implications of Hsp70 induced by COX-2 inhibitors

12.30-12.45 **Ignacio Bejarano**: Modulation of leukaemia cells proneness to apoptosis by targeting HSP

12.45-12.55 **Anoop Kumar**: Effect on cellular metabolism in starvation induced autophagic cell lines

12.55-13.05 **Sabrina Di Bartolomeo**: Reversing EMT through autophagy induction in glioblastoma cells

13.05-14.05 Lunch

14.05 -14.55

SESSION IX - METRONOMIC LOW-DOSE CHEMOTHERAPY AND ANAKOINOSIS

Chair: Nicolas André, Lina Ghibelli

14.05-14.25 **Nicolas André** (Marseille, F) Metronomic Chemotherapy: Direct Targeting of Cancer Cells after all?

14.25-14.40 **Emanuele Bruni** (Roma, I) Metronomic etoposide induces caspase-free apoptosis and differentiation

14.40-14.55 **Roland Schelker** (Regensburg, D) Low-dose trofosfamide plus rituximab for DLBCL of the elderly

14.55-16.20 SESSION X: MODEL SYSTEMS FOR STUDYING COMMUNICATIVE REPROGRAMMING

Chair: Giulia Piaggio, Eugenio Martinelli

14.55-15.15 **Giulia Piaggio** (Roma, I) Animal model systems for in vivo visualization of proliferation

15.15-15.35 **Eugenio Martinelli** (Roma, I) Drug treatment evaluation by a multivariate analysis of cell motilities

15.35-15.50 **Antonella Ragnini** (Roma, I) Screening approaches to complex drug cocktails

15.50-16.00 **Claudia Fuoco** (Roma, I) Investigating the rhabdomyosarcoma cell origin and heterogeneity

16.00-16.10 **Filippo Boniardi**: Tumor spatial microenvironment characterization with Imaging Mass Cytometry

16.10-16.20 **Simone Gardini**: GenomeUp and Transcriptomics

16.20-16.30

CONCLUDING REMARKS

16.30 Coffee and End of the meeting