

IEO ALUMNI MEETING
Milan, December 20-21, 2018
SCIENTIFIC PROGRAM

December 20, 2018

9.00-9.15 **Opening remarks: Prof. Roberto Orecchia**, European Institute of Oncology, Milan, Italy

Session 1 - Cell identity, plasticity & differentiation

9.15-9.30 **Silvia Fre'**, Institut Curie – PSL, Paris, France

"Plasticity of Mammary Stem Cells – at the Origin of Breast Cancer?"

9.30-9.45 **Paola Martinelli**, Institute of Cancer Research Medical University of Wien, Wien, Austria

"Understanding Tumor Plasticity to Block Metastasis"

9.45-10.00 **Victor Sanchez-Arevalo**, Francisco de Vitoria University, Hospital 12 de Octubre, Madrid, Spain

"Differentiation as a Safeguard Mechanism against Transformation in Pancreatic Cancer"

10.00-10.15 **Stefano Campaner**, Center for Genomic Science of IIT@SEMM, Fondazione Istituto Italiano di Tecnologia (IIT), Milan, Italy

"Transcriptional Control of Cell Growth and Cell Identity"

10.15-10.30 **Gioacchino Natoli**, IEO European Institute of Oncology, Humanitas University, Milan, Italy

"TBD"

10.30-11.00 **Open discussion**

11.00-11.15 **Coffee break**

Session 2 - Epigenetics, Transcription

11.15-11.30 **Lisa Salcini**, Biotech Research and Innovation Centre (BRIC), Copenhagen, Denmark

"Building Up a Perfect Brain, the Role of H3K4 Methylation"

11.30-11.45 **Adrian Bracken**, Smurfit Institute of Genetics-Trinity College Dublin, Dublin, Ireland

"Targeting the Activities of Polycomb Repressive Complex 2 (PRC2) in Cancer"

11.45-12.00 **Luisa Di Stefano**, Université Paul Sabatier, Toulouse, France

"LSD1 in the Game of Transposons: from Drosophila to Human Cancers"

- 12.00-12.15 **Alessandro Gardini**, Gene Expression and Regulation, The Wistar Institute, Philadelphia, USA
"Epigenetic Control of Transcriptional Enhancers"
- 12.15-12.30 **Luciano Di Croce**, Centre for Genomic Regulation CRG, Barcelona, Spain
"Molecular Mechanisms Governing Cell Differentiation and Cancer Processes"
- 12.30-13.00 **Open discussion**
- 13.00-14.00 **Lunch**

Session 3 – Chromosome structure & RNA

- 14.00-14.15 **Eros Lazzerini-Denchi**, NIH National Cancer Institute, Center for Cancer Research, Bethesda, USA
"Setting Boundaries: How Cells Keep Telomeres in Check"
- 14.15-14.30 **Luca Giorgetti**, Friedrich Miescher Institute for Biomedical Research (FMI), Basel, Switzerland
"Chromosome Structure and Transcriptional Regulation"
- 14.30-14.45 **Ernesto Guccione**, Mount Sinai, New York, USA
"Alternative Splicing: Why Should We Care?"
- 14.45-15.00 **Francesco Nicassio**, Center for Genomic Science of IIT@SEMM, Fondazione Istituto Italiano di Tecnologia (IIT), Milan, Italy
"Transcriptional Plasticity by Non-Coding RNAs"
- 15.00-15.15 **Andrea Ventura**, Memorial Sloan Kettering Cancer Center, New York, USA
"Decoding the Cancer Genome: non-coding RNAs, Gene Fusions, and the CRISPR Revolution"
- 15.15-15.45 **Open discussion**
- 15.45-16.00 **Coffee break**

Session 4 - Functional and computational genomics

- 16.00-16.15 **Gaetano Gargiulo**, Max Delbrueck Center for Molecular Medicine (MDC), Berlin, Germany
"Next-generation Modeling of Human Cancers"
- 16.15-16.30 **Davide Danovi**, King's College London, Cell Phenotyping Platform, Centre for Stem Cells & Regenerative Medicine, London, UK
"Collaborative Phenotyping: Challenges, Opportunities, Projects"
- 16.30-16.45 **Antonio Adamo**, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
"In Vitro Modeling of X Chromosome Aneuploidy in Klinefelter Syndrome"
- 16.45-17.00 **Francesca Ciccarelli**, King's College London Div. of Cancer Studies, The Francis Crick Institute, London, UK
"Why We Need to Know the Evolution Theory to Cure Cancer"
- 17.00-17.15 **Giulio F. Draetta**, MD Anderson Cancer Centre, Houston, USA
"Bench@Bedside: Clinical Translation of Functional Dependencies"

17.15-17.45 **Open discussion**

18.30 *Christmas Aperitif*

December 21, 2018

Session 5 – Microenvironment & Cancer Immunology

9.00-9.15 **Gianluca Matteoli**, KULeuven, Leuven, Belgium

“Neuro-immune Interaction in Homeostasis and Disease: Feeling the Danger”

9.15-9.30 **Maria Rescigno**, Humanitas University, Humanitas Research Hospital, Milan, Italy

“Microbiota and cancer: diagnosis, prognosis and therapy”

9.30-9.45 **Iliyan D. Iliev**, Weill Cornell Medicine, New York, USA

“The Mycobiome and its Implications to Health, Immunity, Therapy Outcomes and Disease”

9.45-10.00 **Ivan Marazzi**, Icahn School of Medicine Mount Sinai, New York, USA

“The End is the Beginning is the End: origination of neogenes and neoantigens”

10.00-10.15 **Renato Ostuni**, San Raffaele Telethon Institute for Gene Therapy (SR_TIGET), Milan, Italy

“Defining (and Overcoming) Immune Suppressive Programs in Cancers”

10.15-10.45 **Open discussion**

10.45-11.00 **Coffee break**

Session 6 – Metabolism & Therapy Resistance

11.00-11.15 **Martin Ruthardt**, School of Medicine Cardiff University, Cardiff, UK

“Tackling Resistance in Leukemia”

11.15-11.30 **Letizia Lanzetti**, Candiolo Cancer Institute - FPO, IRCCS, Candiolo, Italy

“Identification of Metabolic Vulnerabilities in Triple Negative Breast Cancer”

11.30-11.45 **Ferdinando Chiaradonna** Università degli Studi Milano Bicocca, Dip. di Biotecnologie e Bioscienze (BtBs), Milan, Italy

“Metabolic Regulation of Cancer Hallmarks: Cutting Down Tumor Heterogeneity by Targeting Metabolism”

11.45-12.00 **Massimo Squatrito**, Spanish National Cancer Research Centre CNIO, Madrid, Spain

“Overcoming Therapy Resistance in Glioblastoma”

12.00-12.15 **Andrea Viale**, MD Anderson Cancer Centre, Houston, USA

“Self-Renewal, Clonal Architecture and Heterogeneity in Pancreatic Cancer”

12.15-12.45 **Open discussion**

12.45-14.00 *Lunch with the speakers (only for students registered to the meeting sessions)*

13.00-14.00 *Press Conference (press panel only)*

Session 7 – Cell & Structural Biology

- 14.00-14.15 **Simona Polo**, IFOM - Istituto FIRC di Oncologia Molecolare, Milan, Italy
“Back to the Future with Ubiquitin”
- 14.15-14.30 **Luca Busino**, Abramson Family Cancer Research Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA
“Hijacking the Ubiquitin Proteasome System”
- 14.30-14.45 **Giorgio Scita**, IFOM - Istituto FIRC di Oncologia Molecolare, Milan, Italy
“To move or not move? Why moving at all?”
- 14.45-15.00 **Claudio Ciferri**, Genentech, South San Francisco, USA
“Advancing Cryo-EM in Drug Discovery”
- 15.00-15.15 **Andrea Musacchio**, Max-Planck Institute of Molecular Physiology, Dept. of Mechanistic Cell Biology, Dortmund, Germany
“Role of Kinetochores in Chromosome Segregation: from Epigenetic Self-inheritance to Force Sensing within a Single Macromolecular Complex”
- 15.15-15.45 **Open discussion**
- 15.45-16.00 **Coffee break**

Session 8 – Cancer therapy: Present and Future Perspectives

- 16.00-16.15 **Kristian Helin**, Biotech Research & Innovation Center, University of Copenhagen, Copenhagen, Denmark
“Kristian’s Ideas of How to Kick Cancer”
- 16.15-16.30 **Mark Pearson**, Boehringer-Ingelheim RCV GmbH & Co KG, Wien, Austria
“Optimal Collaboration between Academia and Pharma”
- 16.30-16.45 **Jean-Christophe Marine**, VIB Center for Cancer Biology, KULeuven, Leuven, Belgium
“Moving Precision Oncology beyond the Hype”
- 16.45-17:00 **Pier-Giuseppe Pelicci**, European Institute of Oncology, Milan, Italy
“Precision Oncology at IEO”
- 17.00-17:30 **Open discussion**
- 17.30-17.45 **Closing remarks**
- 17.45-18.45 Career Workshop organized by PHD students and PostDocs for PhD students and PostDocs**

End of the meeting