

OSR Scientific Retreat 2019
Baveno, March 14-16, 2019

Plenary session
Thursday, March 14, 2019

- 14.00 – 14.30 Welcome from the Authorities
14.30 – 14.45 A short introduction to the Retreat by the Scientific Organizing Committee

SESSION 1

Moderators: *Roberto Buccione and Laura Cassina*

- 14.45 – 15.45 Keynote Lecture – “Mitochondrial diseases: molecular metabolism provides tools for treatment”
Anu Suomalainen Wartiovaara, Sigrid Jusélius Professor of Clinical Molecular Medicine, University of Helsinki, Finland

Moderators: *Laura Silvestri and Filippo Casoni*

- 15.45 – 16.35 Hot Topic
“The polycystins regulate cell metabolism and mitochondrial function: a novel role for cilia?”
Alessandra Boletta – Division of Genetics and Cell Biology

Selected abstracts

“Precise gene editing preserves hematopoietic stem cell function following transient p53-mediated DNA damage response”

Anastasia Conti – SR-Tiget

“Impaired turnover of hyperfused mitochondrial in severe axonal neuropathy due to a novel DRP1 mutation”

Fabiana Longo – Division of Neuroscience

- 16.35 – 17.00 *Coffee break*

Moderators: *Giovanni Landoni and Raffaella Di Micco*

- 17.00 – 17.50 Hot Topic
“Non-invasive assessment of Brugada Syndrome arrhythmogenic substrate”
Giuseppe Ciconte – Arrhythmology Department, IRCCS Policlinico San Donato

Selected abstracts

“Repurposing heparin and its derivatives to preventing ZIKA virus-induced cell death in human three-dimensional (3D) neurospheres (NS) derived from pluripotent stem cells”

Isabel Pagani – Division of Immunology, Transplantation and Infectious diseases

“CRISPR/Cas9 loss-of-function screens shed light into epigenetic repressive processes”

Alessandro Migliara – SR-Tiget

18.00 – 20.00 Poster session

20.00 – 21.00 Dinner

21.15 – 22.30 Serata Scienza e Società

“Racconto Cosmico”

Spazio, materia e gravità nell’evoluzione dell’Universo

Antonio Zoccoli, Vice Direttore Istituto Nazionale di Fisica Nucleare e Università di Bologna

Viviana Fafone, Istituto Nazionale di Fisica Nucleare e Università Tor Vergata di Roma

Massimo Pietroni, Istituto Nazionale di Fisica Nucleare e Università di Parma

Neri Marcorè, attore

Plenary session Friday, March 15, 2019

SESSION 2

Moderators: *Davide Cittaro and Davide Mazza*

8.30 – 9.30 Focus on Technologies: “Robotics”

“Robotics for healthcare of the future”

Alberto Sanna – E-services for Life and Health

“Impact of robotics on modern surgery”

Andrea Gallina – Department of Urology

“Rationale for adding a non invasive robotic radiosurgery system in a multi-platform radiotherapy department”

Nadia Di Muzio – Department of Radiotherapy

Moderators: *Paolo Dellabona and Flavio Curnis*

9.30 – 10.55 Hot Topics

“Gain-of-function ex vivo HSPC gene therapy for inherited metabolic diseases and cancer”

Bernhard Gentner – SR-Tiget

“Diagnostic value of miRNAs: the (still unsolved) issues in pre- and post- analytical phases”

Giovanni Lombardi – Laboratory of experimental Biochemistry & Molecular Biology,

IRCCS Istituto Ortopedico Galeazzi

Selected abstracts

“Identification of circulating cytokines/chemokines in heart beating multiorgan donor acting as predictors of graft outcomes”

Giulia Maria Scotti – Center for Translational Genomics and Bioinformatics

“Uncovering the origin of Down syndrome-associated leukemia”

Sara Maffioletti – SR-Tiget

“An unprecedented control of mitochondrial structure and function by the eumetazoan adapter SQSTM1/p62 in aging pathophysiology”

Simone Cenci – Division of Genetics and Cell Biology

10.55 – 11.20 Coffee Break

Moderators: *Vincenzo Russo and Emilie Venereau*

11.20 – 12.40 Hot Topic

“Leukemia immune evasion and relapse after hematopoietic stem cell transplantation”

Luca Vago – Division of Immunology, Transplantation and Infectious diseases

Selected abstracts

“The post-conditioning treatment with the ceramide synthesis inhibitor myriocin enhances lipid consume and ameliorates the response to myocardial ischemia and reperfusion injury”

Marco Piccoli – Laboratory of Stem Cells for Tissue Engineering, IRCCS Policlinico San Donato

“Phospholipid metabolism and cytoskeletal dynamics in the control of membrane growth in myelinating Schwann cells”

Marta Guerrero-Valero – Division of Neuroscience

“Identification and functional characterization of new mutations in the renin gene leading to autosomal dominant tubulointerstitial kidney disease”

Celine Schaeffer – Division of Genetics and Cell Biology

“Microbiota-driven interleukin-17-producing cells and eosinophils synergize to accelerate multiple myeloma progression”

Matteo Bellone – Division of Immunology, Transplantation and Infectious diseases

12.45 – 13.45 Lunch with the expert

- *Roberto Buccione: The editorial process “black box”*
- *Anna Kajaste-Rudnitski/Dario Bonanomi: Building a successful ERC grant*
- *Luca Vago/Marco Bacigaluppi: MD or (and) PhD? Opportunities for junior physicians*
- *Fabio Ciceri: How to build up a clinical trial*
- *Nicola Quadri/Eufemia Putorti: Effective science communication*
- *Domenico Triarico: Managing biomedical research*
- *Aida Paniccia: Alternative careers in science*

SESSION 3

Moderators: *Stefano Crippa and Giovanni Tonon*

14.00 – 15.00 Focus on Disease: “From reflux disease to adenocarcinoma of the esophagus: intriguing insights for a better care”

“Clinical pictures and state of the art of treatment”

Riccardo Rosati – GI Surgery Department

“Pathological issues: from inflammation, through pre-malignancy to cancer”

Luca Albarello – Pathology Department

“Genomics of normal, pre-malignant and malignant esophagus”

Gabriele Bucci – Center for Translational Genomics and Bioinformatics

“Immunology and immunotherapy of esophageal cancer”
Giuseppina Arbore – Division of Immunology, Transplantation and Infectious diseases

Moderators: *Carla Taveggia and Norma Maugeri*

15.00 – 16.20 **Hot Topic**

“Age-related immune changes contribute to the worse outcome of stroke in the elderly”
Marco Bacigaluppi – Division of Neuroscience

Selected abstracts

“Kainate receptor as a potential target for neuroprotective therapy in PARK2 associated Parkinson’s disease”

Maria Regoni – Division of Neuroscience

“Activating anti-cancer immunity through an HMGB1 inhibitor”

Rosanna Mezzapelle – Division of Genetics and Cell Biology

“LV.InsulinB9-23/anti-CD3 inhibits recurrence of autoimmunity in NOD mice after allogeneic pancreatic islets transplant allowing T1D resolution”

Andrea Annoni – SR-Tiget

“Redirecting regulatory T cell activity with chimeric antigen receptors for the treatment of Systemic Lupus Erythematosus”

Matteo Doglio – Division of Immunology, Transplantation and Infectious diseases

16.20 – 16.50 **Coffee Break**

Moderators: *Luca Vago and Massimiliano Marrocco Trischitta*

16.50 – 17.55 **Hot Topic**

“Sudden death as first manifestation of cardiac disease amongst young people”

Antonio Frontera – Arrhythmology Department

Selected abstracts

“R-CHOP preceded by engineered Tumor Necrosis Factor (TNF) in patients with relapsed or refractory (r/r) primary CNS lymphoma (PCNSL): results of antitumor activity, safety and Blood-Brain Barrier (BBB) permeabilization in the “Ingrid” Phase II Trial”

Teresa Calimeri – Division of Experimental Oncology

“Liver-directed gene therapy in newborn mice with lentiviral vectors”

Michela Milani – SR-TIGET

“An automatic computation method to quantify myocardial extracellular volume fraction from cardiac CT: comparison with cardiac MR”

Edda Boccia – Experimental Imaging Center

18.00 – 20.00 **Poster Session**

20.00 – 21.00 **Dinner**

22.00 **Party**

Plenary session
Saturday, March 16, 2019

SESSION 4

Moderators: *Rosa Bernardi and Jenny Sassone*

9.00 – 9.50 **Hot topic**

"An intronic deletion generates an oncogene: the curious case of CCSER1"

Benedetta Santoliquido – Division of Experimental Oncology

Selected abstracts

"Classification of mood disorders using multiple kernel learning on multimodal neuroimaging data: translating biological data into a new diagnostic tool for depression"

Benedetta Vai – Division of Neuroscience

"Iron as a tool to alter cell oxidative status in B-cells malignancies"

Jessica Bordini – Division of Experimental Oncology

Moderators: *Alessandra Boletta and Flavia Valtorta*

9.50 – 10.20 **New Recruitment Session**

"Studying metabolic alterations in cancer and inflammation"

Simone Cardaci – Division of Genetics and Cell Biology

"Axonal protein synthesis in health and disease: a new role for endosomes"

Jean-Michel Cioni – Division of Neuroscience

10.20 – 10.45 **Coffee break**

Moderators: *Gianvito Martino and Luca Guidotti*

10.45 – 11.00 **New technologies at OSR**

Carlo Tacchetti

Giovanni Tonon

11.00 – 12.15 **OSR Pilot Grants**

"Follicular helper T cells show a Th1 phenotype and increased levels of PD-1 and ICOS but are unable to instruct humoral responses in common variable immunodeficiency"

Georgia Fousteri - Maria Pia Cicalese

"The role of Mycobacterium tuberculosis complex genetic variation during macrophage infection"

Paolo Miotto - Chiara Tassan Din

"Misfolded protein in Amyotrophic Lateral Sclerosis (MALvASla)"

Luca Muzio - Nilo Riva

"Identification and targeting of epigenetic drivers of immune evasion in acute myeloid leukemia relapses after allogeneic HSCT"

Luca Vago - Raffaella di Micco

"Identification of "mummy" spermatozoa targeting protective epididymal proteins: an approach to ameliorate results of intracytoplasmic sperm injection (ICSI)"

Riccardo Vago – Paola Viganò

12.15 – 12.30 OSR Seeding Grants

“Vascularized Endocrine Organ for the treatment of T1D”

Antonio Citro

“Toward the generation of a human model of Lafora Disease and the setting of a combined gene and cell therapy approach”

Gaia Colasante

“Precise identification of hemogenic endothelial cells in human pluripotent stem cell differentiation cultures”

Andrea Ditadi

“Tracking down the IL-17s immunity during chronic airway diseases mediated by Nontypeable Haemophilus influenzae”

Nicola Ivan Lore'

“Towards single-molecule quantification of p53 action at individual responsive elements in living cells”

Davide Mazza

“Spatiotemporal dynamics of inflammation: role of NF-kappaB dynamics at a tissue level”

Samuel Zambrano

SESSION 5

12.30 – 14.00 Updates from DS

Best selected abstract award

Best poster award (junior, intermediate, advanced)

Best 2018 paper award (basic, translational, clinical)