6 Italian experience in biomedical research: young minds at work

Desenzano del Garda (BS) • Park Hotel 12th-13th October, 2018



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Dear Friends,

We are very pleased to host you here in Desenzano del Garda at the "6th Annual Italian Experience in Biomedical Research: Young Minds at Work".

During the conference, you will be in touch with peers (PhD students, postgraduates, Post-Doctoral Scientists, etc.) from across all biomedical disciplines encompassing the latest and hottest frontiers of research and their innovative translational applications. We want you to take this opportunity and to make this conference very special. Be participative! Be curious! Ask! Be ready to share your knowledge! Even more importantly: Think! Think of possible new scenarios for your research! Think of how fascinating and intriguing is the work we are all involved in!

Your peers are not here to judge you, but to give you a fantastic opportunity to share your data in an extremely informal environment.

Your active participation is important to us and for the real effectiveness of the conference. We also hope it is important to you!

Francesca Caccuri Nicasio Mancini Marta Trevisan

Friday, October 12th

PARTICIPANTS REGISTRATION h 12.30-13.30



WELCOME AND INTRODUCTION TO THE MAIN LECTURE

Francesca Caccuri, Nicasio Mancini and Marta Trevisan

h 14.00-14.45 Dario Bonanomi, "Vita-Salute San Raffaele" University, Milano

Mechanisms of brain wiring: how neurons find their targets

ANTI-CANCER VIROLOGY AND ANTI-CANCER DRUGS

Chairman: Ekta Manocha

h 14.45-15.00 Alberto Reale, Department of Molecular Medicine, University of Padova, Padova

Generation of new HSV-1 based immuno-oncolytic viruses for the treatment of solid tumors resistant to current immunotherapies

h 15.00-15.15 Elise Ramia, Laboratories of General Pathology and Immunology "Giovanna Tosi", Department of Medicine and Surgery, University of Insubria, Varese

CIITA-related block of HLA class II expression, upregulation of HLA class I, and heterogeneous expression of immune checkpoints in hepatocarcinomas: implications for new therapeutic approaches

h 15.15-15.30 Martina Tassinari, Department of Molecular Medicine, University of Padova, Padova

Down-regulation of the androgen receptor by G-quadruplex ligands sensitizes castration-resistant prostate cancer cells to enzalutamide

MICROBIOME

Chairman: Giovanni Lorenzin

h 15.30-15.45 Filippo Brocci, "Vita-Salute San Raffaele" University, Milano

Decoding the central representations of visceral gastroenteric inputs

h 15.45-16.00 Virginia Amato, Microbiology and Virology Unit, "Vita-Salute San Raffaele" University, Milano

The vaginal and seminal microbiome in couples with idiopathic infertility

h 16.00-16.15 Gianluca Quaranta, Microbiology and Virology "Fondazione Policlinico Gemelli IRCCS", Roma Fecal Microbiota Transplant and analysis approaches



h 16.15-16.30 Roberto Ferrarese, Microbiology and Virology Unit, "Vita-Salute San Raffaele" University, Milano
The microbiota of the prostate tumor microenvironment

BREAK h 16.30-17.00

GENE THERAPY

Chairman: Alessandro Migliara

h 17.00-17.15 Alessandro Migliara, "Vita-Salute San Raffaele" University, Milano

A high-throughput loss-of-function approach to uncover novel players involved in permanent epigenetic silencing

h 17.15-17.30 Michela Milani, San Raffaele Telethon Institute for Gene Therapy, Milano

Liver-directed gene therapy for hemophilia B with immune stealth lentiviral vectors

h 17.30-17.45 Diego Gilioli, San Raffaele Telethon Institute for Gene Therapy, Milano

Dissecting cell-autonomous and paracrine functions of cell senescence in AML response to therapy

NEUROPATHOLOGY AND NEUROPHARMACOLOGY

Chairman: Isabel Pagani

h 17.45-18.00 Isabel Pagani, Viral Pathogens and Biosafety Unit, Division of Immunology, Transplantation and Infectious Diseases, San Raffaele Scientific Institute, Milano Zika virus replication in dorsal root ganglia explants from interferon

h 18.00-18.15 Francesca Aria, Department of Molecular and Translational Medicine, University of Brescia, Brescia Chronic treatment of γ-oryzanol prevents neuroinflammation and cognitive impairment in LPS-injected adult mice

receptor 1 (IFNR1) knockout mice causes myelin degeneration

h 18.15-18.30 Stefania Vogiatzis, Department of Molecular Medicine, University of Padova, Padova

Chimeric NEDD4 ubiquitin ligases as an innovative approach for interfering with alpha-synuclein accumulation in Parkinson's disease

Saturday, October 13th

HIGHLIGHTS IN BACTERIOLOGY

Chairman: Giorgio Piccinelli

h 08.30-08.45 Laura Cioetto Mazzabò, Department of Molecular Medicine, University of Padova, Padova

Assessing the role of RseA as anti-sigma factor of the *Mycobacterium tuberculosis* extracytoplasmic sigma factor SigE

h 08.45-09.00 Annapia Di Napoli, UOC Microbiologia e Virologia, Fondazione IRCCS Policlinico San Matteo, Pavia Rapid diagnostic for a reemerging pathology: pertussis

h 09.00-09.15 Daniela Zago, Department of Molecular Medicine, University of Padova, Padova

Carbapenemases producing *Klebsiella pneumoniae*: an epidemiological survey and a longitudinal study of the switch from colistin sensitive to colistin resistant in an Italian teaching hospital

h 09.15-09.30 Sara Roversi, Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Brescia Establishment of a model for the identification of treated surfaces with antibacterial properties against Legionella pneumophila

h 09.30-09.45 Erika Scaltriti, IZSLER, Risk Analysis and Genomic Epidemiology Unit, Parma

WGS-based retrospective analysis for surveillance of *L. monocytogenes* infections in Emilia-Romagna

h 09.45-10.00 Giulia Menchinelli, Institutes of Microbiology, Università Cattolica del Sacro Cuore, Fondazione Policlinico Universitario Agostino Gemelli IRCCS, Roma

Optimize the use of blood cultures for the diagnosis of blood stream infections: the Bact/Alert VIRTUO experience

ANTIMICROBIAL DRUGS

Chairman: Ramona Pezzotta

h 10.00-10.15 Gianluigi Franci, Department of Experimental Medicine, University of Campania "Luigi Vanvitelli", Napoli Bioactive compounds from grape cane extracts: an antimicrobial evaluation

h 10.15-10.30 Andrea Alogna, Department of Medical Sciences, Section of Microbiology, University of Ferrara, Ferrara Helix aspersa muller mucus (Helixcomplex®) p41 protein prevents Pseudomonas aeruginosa growth and promotes mammalian bronchial epithelial cell proliferation





h 10.30-10.45 Giulia Bernabè, Department of Molecular Medicine University of Padova, Padova
Bacterial quorum sensing system: A target for treatment of methicillin-resistant Staphylococcus aureus infections

BREAK h 10.45-11.15

INTRODUCTION TO THE MAIN LECTURE

Francesca Caccuri, Nicasio Mancini and Marta Trevisan

h 11.15-11.45 Roberto Buccione, "Vita-Salute San Raffaele" University, Milano

Research Integrity: What is it? And why does it matter?

IMMUNE RESPONSE AND PATHOLOGY

Chairman: Marco Miduri

h 11.45-12.00 Simone Lucchesi, LAMMB, Department of Biomedical Technologies, University of Siena, Siena
Whole blood transcriptomic analysis of immune response to the rVSV-

ZEBOV Ebola vaccine

h 12.00-12.15 Melania Degli Antoni, Molecular Virology Unit, Microbiology and Virology Department, Fondazione IRCCS Policlinico San Matteo, Pavia

Predictive role of nadir CD4⁺ T-cell count in the risk stratification of opportunistic infections in kidney transplant recipients

h 12.15-12.30 Valeria Mariotti, Department of Molecular Medicine, University of Padova, Padova

VEGF-A/Notch signaling in the regulation of VEGFR2 expression in biliary cells

h 12.30-12.45 Matteo Castelli, Microbiology and Virology Unit, "Vita-Salute San Raffaele" University, Milano HCV/E2 hypervariable region 1 plasticity drives isolate-specific epitopes

protection

h 12 45-13 00 Alessandra Inquiscio. Department of Immunology

h 12.45-13.00 Alessandra Inguscio, Department of Immunology, Transplantation and Infectious Diseases, Ospedale San Raffaele, Milano Mixed Lineage Kinase 3 controls paracrine interactions in inflammatory cell adhesion and migration

LUNCH h 13.00-14.00

Saturday, October 13th

VIRAL PATHOGENESIS

Chairman: Silvia Riccetti

h 14.00-14.15 Alberto Zani, Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Brescia Human lung epithelial cells support human metapneumovirus persistence by overcoming apoptosis

h 14.15-14.30 Daria Bortolotti, Department of Medical Sciences, Section of Microbiology, University of Ferrara, Ferrara HHV-6A infection of NK cells modifies their chemo-attractive response

h 14.30-14.45 Marilena Traversi, Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Brescia Is the time now for postnatal Cytomegalovirus universal screening? Report of the Brescia Children Hospital experience

h 14.45-15.00 Chiara Medici, *Virology Unit*, *Pisa University Hospital*, *Pisa* The measure of torquetenovirus load as predictive biomarker in solid organ transplant recipients and elderly subjects

h 15.00-15.15 Emanuela Ruggiero, Department of Molecular Medicine University of Padova, Padova G-quadruplex and i-motif structures in the HIV-1 LTR promoter

h 15.15-15.30 Pietro Mazzuca, Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Brescia The HIV-1 matrix protein p17 induces a procoagulant state and promotes thrombosis

h 15.30-15.45 Maria Vittoria Salvati, Department of Molecular Medicine University of Padova, Padova
Evaluation of Hazara virus infection in tick cell lines as a model to study the persistent infection of Crimean-Congo Haemorrhagic Fever Virus in ticks

h 15.45-16.00 Maura Statzu, Department of Molecular Medicine, Laboratory of Virology affiliated to Istituto Pasteur Italia, Fondazione Cenci Bolognetti, Sapienza University, Roma Increased SAMHD1 correlates with interferon-stimulated genes in HIV-1-positive patients

BREAK h 16.00-16.15

MECHANISMS OF VIRAL ONCOGENESIS

Chairman: Lorenzo Messa

h 16.15-16.30 Andrea Cerasuolo, Molecular Biology & Viral Oncology Unit, Istituto Nazionale Tumori "Fondazione G. Pascale" IRCCS, Napoli Control of HPV16 E6* isoforms expression by cell splicing factors in oropharyngeal and cervical cancers

h 16.30-16.45 Jayashree Thatte, International Centre for Genetic Engineering and Biotechnology, Padriciano, Trieste
The HPV E6 PDZ Binding Motif links DNA Damage Response Signaling to E6 Inhibition of p53 Transcriptional Activity

h 16.45-17.00 Luna Colagrossi, University of Milano, Milano Chronic and acute HEV infection in one year of observation at ASST GOM Niguarda

ANTIVIRAL DRUGS

Chairman: **Paola Quaranta**

17.00-17.15 Paola Quaranta, *Retrovirus Centre, Department* of Traslational Research, University of Pisa, Pisa
Human DDX3 helicase inhibitors inhibit Coxackie B5 virus replication

h 17.15-17.30 Chiara Bertagnin, Department of Molecular Medicine, University of Padova, Padova New antiviral strategies against influenza viruses

h 17.30-17.45 Paola Soldà, Department of Molecular Medicine, University of Padova, Padova Quindoline-derived G4 ligands targeting HSV-1 G-quadruplexes

DESENZANO AWARDS

h 17.45-18.00

Francesca Caccuri, Nicasio Mancini and Marta Trevisan



Note



Note





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