

5<sup>th</sup>

Desenzano del Garda (BS) • Park Hotel

# 20-21 october, 2017



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ADRIANA VITIELLO  
ANA-MARIJA VUČKOVIĆ  
IRENE ZORZAN



Dear Colleagues,

*We are pleased to welcome you at the **5<sup>th</sup> Annual Italian Experience in Biomedical Research: Young Minds at Work**, in Desenzano del Garda (BS). This conference is open to young scientists from across all biomedical disciplines involved in innovative research (PhD students, postgraduates, Post-Doctoral Scientists, etc.). This meeting represents a unique opportunity for young scientists and researchers to gain exposure and visibility, while exchanging knowledge and fostering meaningful interactions to facilitate future projects and collaborations. Furthermore, this experience may inspire the development of new programs such as the integration of PhD and Specialization programs, the establishment of nationwide standards, and additional European funding. In keeping with the tradition established in previous edition of this meeting, students will play a fundamental role in both the organization of the conference and its scientific content. Registration is free and will include access to the presentations as well as coffee breaks, and lunch for the 21<sup>st</sup> of October.*

*English is the official language for oral communications at the meeting. A committee has reviewed all submitted abstracts and selected those to be presented. Each presentation will be limited to 12 minutes, with 3 minutes for questions. Each presentation will be evaluated and the top three presentations will be awarded. This year, we also offer 10 travel grants to speakers who will request them and come from more distant locations.*

*Your participation in this conference is important to us, and we hope you enjoy Desenzano del Garda!*

*Kind regards,*

**Francesca Caccuri**  
**Nicasio Mancini**  
**Marta Trevisan**

# Friday, October 20<sup>th</sup>



## PARTECIPANTS REGISTRATION

**h 12.30-13.30**

## OPENING AND INTRODUCTION TO THE MAIN LECTURES

**h 13.30-13.45** **Giorgio Palù**, *University of Padua, Padua, Italy*

**h 13.45-14.15** **Genoveffa Franchini**, *Center for Cancer Research (NCI), National Cancer Institute (NIH) Bethesda, MD, USA*

Temporal-spatial crosstalk among Myeloid, T, and NKp44 cells in the efficacy of a vaccine candidate for HIV

**h 14.15-14.45** **Rino Rappuoli**, *Research Center, GSK Vaccines, Siena, Italy*  
Longevity and vaccines

## DISCUSSANTS

**h 14.45-15.15** **Giorgio Palù**, *University of Padua, Padua, Italy*

**Roberto Burioni**, *Vita-Salute San Raffaele University, Milan, Italy*

## AUTOPHAGY

*Chairman: Paola Checconi, Mazzuca Pietro*

**h 15.15-15.30** **Paola Checconi**, *Department of Public Health and Infectious Diseases, Sapienza University of Rome, Laboratory affiliated to Istituto Pasteur Italia-Fondazione Cenci Bolognetti, Rome, Italy*

Influenza A Virus blocks Autophagic pathway through inhibition of HDAC6-mediated cortactin acetylation

**h 15.30-15.45** **Pietro Mazzuca**, *Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Italy*

Role of Autophagy in HIV-1 Matrix Protein p17-Driven Lymphangiogenesis

**h 15.45-16.00** **Francesco Nicoli**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Cooperative control of human naïve CD8<sup>+</sup> T cell priming by autophagy and mTOR-dependent glycolysis

**h 16.00-16.15** **Silvia Castagnaro**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Autophagy activation in COL6 myopathic patients by a low-protein-diet pilot trial

## VIROLOGY AND CLINICAL VIROLOGY

Chairman: **Maura Statzu, Marco Baratella**

**h 16.30-16.45 Maria Vittoria Salvati**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

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 16.45-17.00 Sara Roversi**, *Section of Microbiology, Department of Molecular and Translational Medicine, University of Brescia, Italy*

A single amino acid substitution confers B-cell clonogenic activity to the HIV-1 matrix protein p17

**h 17.00-17.15 Alessandra Aiello**, *Department of Science, University Roma Tre, Rome, Italy*

Characterization of the effects induced by HIV-1 recNEFSF2 protein on plasmacytoid dendritic cells

**h 17.15-17.30 Marco Baratella**, *Laboratories of General Pathology and Immunology Giovanna Tosi, Department of Medicine and Surgery, School of Medicine, University of Insubria, Varese, Italy*

Cytoplasmic localization of HTLV-1 HBZ oncoprotein is a distinctive feature of HAM/TSP patients' PBMC and persists in cell lines derived from the same patients

**h 17.30-17.45 Maria D'Accolti**, *Section of Microbiology and Medical Genetics, Department of Medical Sciences, University of Ferrara, Ferrara, Italy*

HHV-6A/6B infection of NK cells modulates the expression of miRNAs and transcriptional factors potentially associated to impaired NK activity

**h 17.45-18.00 Mariangela Siculo**, *Section of Microbiology and Medical Genetics, Department of Medical Sciences, University of Ferrara, Ferrara, Italy*

HHV-6A infection of endometrial epithelial cells induces new endometrial NK cell functions

**h 18.00-18.15 Federica Giardina**, *Molecular Virology Unit and Microbiology Department, Fondazione IRCCS Policlinico san Matteo, Pavia, Italy*

Influenza A virus NS1 protein's variability during the period 2009-2016

**h 18.15-18.30 Anna Alunno**, *Department of Surgery and Biomedical Sciences, University of Perugia, Perugia, Italy*

Clinical features of children with Influenza A and B infection during five winter seasons (from 2012 to 2017) in Umbria (Italy)

**h 18.30-18.45 Maura Statzu**, *Laboratory of Virology, Department of Molecular Medicine, Istituto Pasteur Italia-Cenci Bolognetti Fondazione, Sapienza University of Rome, Rome, Italy*

Torquetenovirus viremia as a marker of immunocompetence in liver or kidney transplant recipients

# Saturday, October 21<sup>st</sup>

## HIGHLIGHTS IN BACTERIOLOGY AND NOVEL ANTIBACTERIAL DRUGS

Chairman: **Susana Dias, Michele Berselli**

**h 08.30-08.45 Michele Berselli**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Unraveling the relationships between sequence patterns and DNA structural features in the *Mycobacterium bovis* genome

**h 08.45-09.00 Libera Clemente**, *Microbiology and Virology Unit, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy*

Plasmid-mediated colistin-resistant *Escherichia coli* in clinical specimens: *mcr-1* and *mcr-2* genes

**h 09.00-09.15 Federica Novazzi**, *Unit of Microbiology and Clinical Microbiology, Department of Clinical-Surgical, diagnostic and Pediatric Sciences, University of Pavia, Pavia, Italy*

Occurrence of ESBL, KPC and MCR-1 in GRAM-negative microorganisms from Oltrepò Pavese environment

**h 09.15-09.30 Omar De Bei**, *Department of Food and Drug, University of Parma, Parma, Italy*

Functional properties of serine acetyltransferase in the cysteine synthase complex

**h 09.30-09.45 Edoardo Vecchio Nepita**, *DIMES, Microbiology, University of Bologna, Bologna, Italy and Specialization School in Microbiology and Virology, University of Pavia, Pavia, Italy*

Activity of synthetic peptides against *Chlamydia*

**h 09.45-10.00 Susana Dias**, *Institute of Molecular Medicine, Faculty of Medicine, University of Lisbon, Lisbon, Portugal*

New Antibacterial Peptides Derived from Viral Capsid Proteins

**h 10.00-10.15 Alice Nava**, *S.C. Physical, chemical and microbiological analysis - ASST Grande Ospedale Metropolitano Niguarda, Milan, Italy*

Endoscopes disinfection control using a rapid molecular test (GeneXpert®)

**h 10.15-10.30 Giovanni Lorenzin**, *University of Milan - ASST Spedali Civili di Brescia, Microbiology and Virology Unit*

Colistin/Sulbactam combination therapy perspectives in the treatment of severe infections caused by XDR *Acinetobacter Baumannii* strains



## EXPERIMENTAL ONCOLOGY

Chairman: **Adriana Vitiello, Imtiaz M. Nawaz**

**h 10.45-11.00 Andrea Binatti**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Functional prioritization of genes somatically mutated in cancer by integrative and systems genetics approaches

**h 11.00-11.15 Elise Ramia**, *Laboratories of General Pathology and Immunology Giovanna Tosi, University of Insubria, Varese, Italy*

Unprecedented split expression of HLA class I and class II molecules in hepatocarcinoma opens the possibility to envisage novel immunotherapeutic approaches

**h 11.15-11.30 Imtiaz M. Nawaz**, *Department of Molecular and Translational Medicine, University of Brescia, Brescia, Italy*

N-tert-butyloxycarbonyl-Phe-Leu-Phe-Leu-Phe (BOC2) inhibits the angiogenic activity of heparin-binding growth factors

**h 11.30-11.45 Maria Caterina Rotiroti**, *Tettamanti Research Center, Pediatric clinic, University of Milano Bicocca, Ospedale San Gerardo/Fondazione MBBM, Monza, Italy*

Specific targeting of acute myeloid leukemia by the use of non-virally engineered CIK (Cytokine-Induced Killer) cells expressing the Anti-CD33 chimeric antigen receptor (CAR)

**h 11.45-12.00 Adriana Vitiello**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Generation and characterization of new HSV1-based oncolytic viruses towards an innovative therapeutic approach for triple negative breast cancer

LUNCH

**h 12.00-13.30**

## ANTIVIRAL DEVELOPMENT AND CLINICAL STUDIES

Chairman: **Beatrice Mercorelli, Gianluigi Franci**

**h 13.30-13.45 Gianluigi Franci**, *Department of Experimental Medicine, University of Campania Luigi Vanvitelli, Naples, Italy*

Antiviral activity of host defense temporin-34 analogues

**h 13.45-14.00 Elena Criscuolo**, *Microbiology and Virology Unit, Vita-Salute San Raffaele University, Milan, Italy*

Synergistic activity of HSV entry inhibitors tailoring different steps of virus lifecycle enhances antiviral effects of antiherpetic drugs



# Saturday, October 21<sup>st</sup>

**h 14.00-14.15 Matteo Castelli**, *Laboratory of Microbiology and Virology, Vita-Salute San Raffaele University, Milan, Italy*

Rationally designed HCV/E2 epitope II variant with increased neutralizing antibody selectivity

**h 14.15-14.30 Beatrice Mercorelli**, *Department of Molecular Medicine, University of Padua, Italy*

The IE2 protein of Human Cytomegalovirus: an "old" target with a new appeal for antiviral strategies

**h 14.30-14.45 Alessia Donato**, *LAMMB, Department of Medical Biotechnologies, University di Siena, Siena, Italy*

Transcriptomic analysis of the immune response to rVSV-ZEBOV vaccination

**h 14.45-15.00 Francesca Bai**, *Department of Health Sciences, Clinic of Infectious Diseases, University of Milan, ASST Santi Paolo e Carlo, Milan, Italy*

Efficacy and durability of dual regimen with 3TC plus ATV/r or DRV/r in antiretroviral-experienced HIV-infected patients enrolled in ARCA: data from a real-life setting

**h 15.00-15.15 Laura Mazzuti**, *Department of Molecular Medicine, Sapienza University of Rome, Rome, Italy*

Inflammation markers and low levels viremia: gender difference in ARV treated HIV-1 patients

COFFEE BREAK

**h 15.15-15.30**

## BIOTECNOLOGIES AND TRANSLATIONAL MEDICINE

Chairman: **Sara Neves Coelho, Paolo Raffa**

**h 15.30-15.45 Sara Neves Coelho**, *Institute of Molecular Medicine, Faculty of Medicine, University of Lisbon, Lisbon, Portugal*

A new cell-penetrating peptide for drug delivery to the brain

**h 15.45-16.00 Alessandro Migliara**, *San Raffaele Telethon Institute for Gene Therapy (SR-Tiget), Milan, Italy*

Inheritable silencing of endogenous genes by HIT-and-RUN targeted epigenetic editing

**h 16.00-16.15 Francesca Giannese**, *Center for Translational Genomics and Bioinformatics –San Raffaele Hospital, Milan, Italy*

The Innovation Lab: Implementation of Drop-seq platform for single-cell transcriptome analysis at OSR



**h 16.15-16.30 Enrico Lavezzo**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Analysis of NGS data to characterize viral variability: a case study applied to Human papillomavirus infections

**h 16.30-16.45 Irene Zorzan**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Dissecting the role of TGF- $\beta$  pathway in the human pluripotency network

**h 16.45-17.00 Chiara Di Resta**, *Clinical Molecular Biology Laboratory, University of Vita San Salute San Raffaele, Milan, Italy*

Next generation sequencing for investigating cardiac disease

**h 17.00-17.15 Martina Manzoni**, *Department of Oncology and Hemato-oncology, University of Milan, Milan, Italy*

Genotyping of plasma cell disease on the liquid biopsy

**h 17.15-17.30 Ana-Marija Vučković**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Glutathione depletion in HEK293T addresses cytosolic GPx4 to the membrane

**h 17.30-17.45 Joyce Bernardi**, *Department of Biotechnologies and Biosciences University of Milano-Bicocca, Milan, Italy*

NOS1 activity as a co-factor in arrhythmogenesis by prolonged repolarization

**h 17.45-18.00 Elena Sommariva**, *Vascular Biology and Regenerative Medicine Unit, Centro Cardiologico Monzino IRCCS, Milan, Italy*

Cardiac mesenchymal stromal cells are a source of adipocytes in arrhythmogenic cardiomyopathy

**h 18.00-18.15 Valeria Mariotti**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

YAP/ $\beta$ -catenin cross-talk promotes a pro-inflammatory phenotype in fibrocystin-defective cholangiocytes

**h 18.15-18.30 Paolo Raffa**, *Department of Molecular Medicine, University of Padua, Padua, Italy*

Combined gene and stem cell therapy approaches to correct ocular defects in p63 related diseases

**h 18.30-18.45 Licia De Propriis**, *San Raffaele Hospital, Vita-Salute San Raffaele University, Milan Italy*

The neurophysiology of the gut-brain communication: what the gastrointestinal tract tells the brain

## DESENZANO AWARDS

**h 18.45-19.00**





# Note



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