

4<sup>th</sup>

# Italian experience in biomedical research: young minds at work

Desenzano del Garda (BS) • Park Hotel • 18-19 november, 2016

Friday, November 18

**PARTECIPANTS REGISTRATION**  
h 12.30-13.30

**OPENING AND WELCOME**  
h 13.40-14.00

*Giorgio Palù, Massimo Clementi, Arnaldo Caruso*

**INNOVATIVE STRATEGIES IN VACCINATION**

*Chairman: Francesca Caccuri*

**h 14.00-14.45 Carlos A. Guzman, Helmholtz Center for Infection Research, Braunschweig, Germany**  
c-di-nucleotides promising tools to tailor immune responses to vaccination

**GENERAL VIROLOGY**

*Chairman: Andrea Civra, Arcangelo Pepe*

**h 14.45-15.00 Barbara Montico, Centro di Riferimento Oncologico, Aviano, Italy**  
Phospholipid scramblase 1 as a possible regulator of EBV replication in B cells

**h 15.00-15.10 Irene Cassaniti, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy**  
Evaluation of EBV-specific T-cell memory response in kidney transplant recipients

**h 15.10-15.25 Andrea Civra, University of Turin, Turin, Italy**  
Oxysterols as inhibitors of human rotavirus infection: mechanism of action and target identification

**h 15.25-15.40 Giovanna Desole, University of Padua, Padua, Italy**  
Susceptibility and innate antiviral response of human neural cells to Zika virus and West Nile virus infection

**h 15.40-15.50 Valeria Caputo, University "Vita-Salute" San Raffaele, Milan, Italy**  
Biotechnological approaches for the study of JCPyV viral variants involved in PML etiopathogenesis

**h 15.50-16.05 Arcangelo Pepe, University of Palermo, Palermo, Italy**  
Waterborne Norovirus outbreak at a seaside resort near Taormina

**h 16.05-16.20 Floriana Bonura, University of Palermo, Palermo, Italy**  
Epidemiological dynamics and genetic diversity of Norovirus in Palermo

**h 16.20-16.35 Greta Forlani, University of Insubria, Varese, Italy**  
The Class II transactivator CIITA acts as HIV-1 restriction factor in human myeloid cells by inhibiting Tat-dependent HIV-1 LTR transactivation and viral replication

**h 16.35-16.50 Farah Bou Nasser Eddine, University of Insubria, Varese, Italy**  
CIITA-driven MHC class II tumor cells prime in vivo naïve CD4<sup>+</sup> T cells to induce efficient anti-tumor immunity

BREAK

**h 16.50-17.05**

**ONCOGENIC VIRUSES AND EXPERIMENTAL ONCOLOGY**

*Chairman: Marco Baratella, Margherita di Somma*

**h 17.05-17.20 Lorenzo Messa, University of Padua, Padua, Italy**  
Structural rearrangements of high-risk HPV E6 oncoprotein confer differential transforming capacities

**h 17.20-17.35 Greta Forlani, University of Insubria, Varese, Italy**  
The constitutive activation of NF-κB pathway by the HTLV-1 Tax-1 viral oncogene is inhibited by the MHC class II transactivator CIITA

**h 17.35-17.50 Marco Baratella, University of Insubria, Varese, Italy**  
Cytoplasmic localization of HTLV-1 HBZ oncoprotein is an unprecedented biomarker of HTLV-1-associated myelopathy/tropical spastic paraparesis (HAM/TSP) syndrome

**h 17.50-18.05 Francesca Biavasco, University "Vita-Salute" San Raffaele, Milan, Italy**  
Design and validation of a comprehensive next generation sequencing panel to characterize myeloid malignancies

**h 18.05-18.20 Margherita di Somma, University of Brescia, Brescia, Italy**  
Identification and characterization of pro-oncogenic low frequency VEGFR2 mutations

**h 18.20-18.35 Wandert Schaafsma, HistoCell co., Parque tecnologico, De Bizkaia, Spain**  
Human brown/beige adipocytes derived from human mesenchymal stem cells (hAMSCs) activate the angiogenic process

**h 18.35-18.50 Marta Comini, Spedali Civili, Brescia, Italy**  
Derivation and characterization of primary tumor cell lines for an in vitro model to improve the efficacy of haploidentical stem cell transplantation

**h 18.50-19.05 Chiara Marchiori, University of Padua, Padua, Italy**  
Colorectal cancer: the role of CD80 in the early stages of immune surveillance

Saturday, November 19

**BACTERIOLOGY: Microbiome, Biofilm and therapeutic intervention**

*Chairman: Giacomo Pini, Maria D'Accolti*

**h 08.30-08.45 Giulia Landini, University of Siena, Siena, Italy**  
Antimicrobial activity of N-acetylcysteine against clinically relevant respiratory pathogens grown in planktonic phase and in biofilm

**h 08.45-08.55 Roberto Ferrarese, University "Vita-Salute" San Raffaele, Milan, Italy**  
Characterization of microbiome composition in oral and fecal samples of patients with autoimmune pancreatitis

**h 08.55-09.10 Giacomo Pini, University "Vita-Salute" San Raffaele, Milan, Italy**  
Role of the enteric bacterial microbiome in predicting clinical outcomes of patients undergoing allogeneic hematopoietic stem cell transplantation: results of a prospective study

**h 09.10-09.25 Maria D'Accolti, University of Ferrara, Ferrara, Italy**  
Impact of a probiotic-based cleaning intervention on the microbiota ecosystem of the hospital surfaces

**Drug resistance and immune escape**

*Chairman: Gianluigi Franci, Monica Carraro*

**h 09.25-09.40 Gianluigi Franci, Seconda Università di Naples, Naples, Italy**  
The epigenetic modulator UVI5008 versus methicillin resistant Staphylococcus aureus

**h 09.40-09.55 Monica Carraro, University of Siena, Siena, Italy**  
Lung leukocytes as biomarkers of Pneumococcal infection of the murine lower respiratory tract

**h 09.55-10.10 Samanta Sennati, University of Siena, Siena, Italy**  
Nosocomial outbreak of colistin-resistant OXA-48-producing Klebsiella pneumoniae from bloodstream infections, Greece

**h 10.10-10.25 Francesca Boldrin, University of Padua, Padua, Italy**  
Micrococin P1 - A bactericidal thiopeptide active against Mycobacterium tuberculosis

**h 10.25-10.40 Daria Bortolotti, University of Ferrara, Ferrara, Italy**  
Pseudomonas aeruginosa immune-escape: role of HLA-G molecules

BREAK

**h 10.40-10.55**

**STRUCTURAL MODELING OF BACTERIAL AND VIRAL PROTEINS**

*Chairman: Nicasio Mancini*

**h 10.55-11.40 Matteo Dal Peraro, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland**  
Assembling macromolecular complexes by integrative modeling

**h 11.40-11.55 Matteo Castelli, University "Vita-Salute" San Raffaele, Milan, Italy**  
Relating structure to function in a hepatitis C virus fusion machinery model

**THE GREAT BEYOND**

**h 11.55-12.15 Giovanni M. Vanacore, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland**  
Spatio-temporal visualization of biological materials by four-dimensional electron microscopy

**ANTI-TUMOR AGENTS AND DRUGS**

*Chairman: Federica Campilongo, Antonella Minutolo*

**h 12.15-12.30 Federica Campilongo, University of Brescia, Brescia, Italy**  
U94 of human herpesvirus type 6 inhibits tumor cell growth, migration and metastasis by down-modulating SRC and promoting a partial mesenchymal-to-epithelial transition

**h 12.30-12.45 Antonella Minutolo, University of Rome "Tor Vergata", Italy**  
The interaction of plant food-derived miRNAs with human genes: anti-tumor effects of vegetal miRNAs in tumor cell lines

**h 12.45-13.00 Beatrice Greco, University "Vita-Salute" San Raffaele, Milan, Italy**  
Cancer cell-autonomous resistance to CAR-T cells requires PD-L1: a foundation for successful adoptive immunotherapy of solid tumours

**h 13.00-13.15 Matteo Doglio, University "Vita-Salute" San Raffaele, Milan, Italy**  
IL-2 and IL-15 allow the generation of gamma-delta CAR-T cells with potent antileukemic activity

**h 13.15-13.30 Gaia C. Ghedini, University of Brescia, Brescia, Italy**  
A long pentraxin-3-derived small molecule FGF trap for the treatment of multiple myeloma

LUNCH

**h 13.30-15.00**

**ANTIVIRAL DRUGS AND CLINICAL STUDIES**

*Chairman: Alessia Bertoldi, Noemy Starita*

**h 15.00-15.15 Noemy Starita, Istituto Nazionale Tumori "Fond. G. Pascale" - IRCCS, Naples, Italy**  
Effect of electrochemotherapy on human herpesvirus 8 kinetics in classic Kaposi sarcoma

**h 15.15-15.30 Sara Callegaro, University of Padua, Padua, Italy**  
G-Quadruplex mediated anti-HSV-1 activity of a core extended Naphthalene Diimide compound

**h 15.30-15.45 Martina Tassinari, University of Padua, Padua, Italy**  
Identification and characterization of new selective anti-HIV-1 compounds targeting G-quadruplexes in the LTR promoter region

**h 15.45-15.55 Domenico Di Carlo, University of Rome "Tor Vergata", Rome, Italy**  
HIV-1 CRF02\_AG is associated with a higher risk of unfavorable virological response under first-line PI/r based regimens

**h 15.55-16.10 Laura Mazzuti, Sapienza University, Rome, Italy**  
Evaluation of HIV-DNA, soluble CD14 and inflammatory markers in treated HIV-1 positive patients receiving antiretroviral therapy

**h 16.10-16.20 Rossana Scutari, University of Rome "Tor Vergata", Rome, Italy**  
HIV-DNA levels in patients on suppressive HAART is affected by LTR-5' genetic variability

**h 16.20-17.35 Alessia Bertoldi, University of Bologna, Bologna, Italy**  
Evaluation of reservoir size in long term-treated HIV patient

**h 16.35-16.50 Arianna Battisti, University of Rome "Tor Vergata", Rome, Italy**  
Clinical and virological characteristics of patients undergoing immunosuppression-driven HBV reactivation: data from a multi-center study

**h 16.50-17.05 Silvia Barbaliscia, University of Rome "Tor Vergata", Rome, Italy**  
Retreatment after protease inhibitors failure can induce a maximal efficacy rate if guided by HCV-resistance test in real-life

**ANTIGEN AND GENE DELIVERY SYSTEMS**

*Chairman: Maria Stincarelli, Maira Zorzan*

**h 17.05-17.20 Paola Quaranta, University of Pisa, Pisa, Italy**  
Modulation of Wharton's Jelly-derived mesenchymal stem cell immunomodulatory properties by transduction with a lentiviral vector encoding Epstein-Barr derived interleukin-10

**h 17.20-17.30 Maira Zorzan, University of Padua, Padua, Italy**  
Set up of a lentiviral vector-based system for targeting human glioblastoma cells

**h 17.30-17.45 Annacarmen Petruzzo, Istituto Nazionale Tumori "Fond. G. Pascale" - IRCCS, Naples, Italy**  
Functional characterization of biodegradable nanoparticles as antigen delivery system

**h 17.45-18.00 Maria Stincarelli, University of Siena, Siena, Italy**  
Construction of a nisin inducible host-vector system for foreign gene expression in Gram-positive bacteria

**TRANSLATIONAL MEDICINE AND BIOTECHNOLOGIES**

*Chairman: Chiara Di Resta, Alessandro Giovinazzo*

**h 18.00-18.10 Alessandro Giovinazzo, University of Rome "Tor Vergata", Rome, Italy**  
In vitro cultures of blueberry (Vaccinium spp.) as biofactory to produce bioactive molecules

**h 18.10-18.20 Pietro Mazzuca, University of Brescia, Brescia, Italy**  
Cellular aspartyl proteases promote the unconventional secretion of biologically active HIV-1 matrix protein p17

**h 18.20-18.30 Sara Lago, University of Padua, Padua, Italy**  
The cellular protein nucleolin preferentially binds long-looped G-quadruplex nucleic acids

**h 18.30-18.45 Lavinia Coletto, University "Vita-Salute" San Raffaele, Milan, Italy**  
Potential role of TRPC6 channel in systemic lupus erythematosus

**h 18.45-19.00 Chiara Di Resta, University "Vita-Salute" San Raffaele, Milan, Italy**  
Genetic characterization of a cohort of Brugada patients using high-throughput approach

**DESENZANO AWARDS**

**h 19.00-19.15**

*Arianna Calistri, Nicasio Mancini, Francesca Caccuri*

**TAKE HOME MESSAGE**

**h 19.15-19.30**

*Arianna Calistri, Nicasio Mancini, Francesca Caccuri*



Abstract book  
will be available at  
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WE THANK

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