



**UNIVERSITY OF  
VERONA**

**PHD SCHOOL IN  
LIFE AND HEALTH SCIENCES**

# **INTERNATIONAL RETREAT OF PHD STUDENTS IN IMMUNOLOGY**

**OCTOBER 6-7, 2017**

**UNIVERSITY OF VERONA  
POLO GIORGIO ZANOTTO**





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Cecilia Garlanda

Ennio Carbone

Flavia Bazzoni

Francesca Di Rosa

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Rozzano, Milan

PhD in Molecular and Experimental Medicine, Humanitas University, Rozzano, Milan



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## ACKNOWLEDGMENTS

The Italian Society of Immunology, Clinical Immunology and Allergology (SIICA) would like to thank the following partners for their support.



UNIVERSITÀ DI VERONA  
SCUOLA DI DOTTORATO IN SCIENZE DELLA VITA E DELLA

AZIENDA DI FORNITURA DEL GAS A

REAGENTI E STRUMENTAZIONE PER LABORATORI



## GENERAL INFORMATION

### REGISTRATION & HOTEL ACCOMMODATION

The registration is free but it is compulsory for attending the Meeting.

The registration includes:

- access to the scientific sessions
- meeting kit including name badge and certificate of attendance
- final program in pdf format ONLY
- hotel reservation can be booked individually. Reduced-fee accommodation has not been arranged.

### SIICA AND EFIS TRAVEL GRANTS

In order to support the participation of young PhD to the “International Retreat of PhD Students in Immunology – Verona 2017”, travel grants sponsored by SIICA and EFIS have been assigned. Grant holders will be asked to fill out a SIICA form and attach the original receipts to get the reimbursement. For any further details please contact the Organizing SIICA Secretariat ([siica.amministrazione@siica.it](mailto:siica.amministrazione@siica.it))

### INTERNET

Wi-Fi is available at the Meeting Venue.

### CATERING FACILITIES

Coffee breaks are available in the Meeting Venue and a buffet lunch is organized in the poster area.

### SOCIAL DINNER

The Social Dinner is scheduled on Friday, October 6, at 20:30 at the Ristorante il Banco Prosciutteria, located in via Ponte Nuovo, 7. The price is 25,00 € (V.A.T. included) per person. Pre-booked tickets will be delivered to participants upon registration.

### LANGUAGE

English is the official language of the Meeting and no simultaneous translation is foreseen.

## SIICA SECRETARIAT



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# **SCIENTIFIC PROGRAM**

**MEETING VENUE**

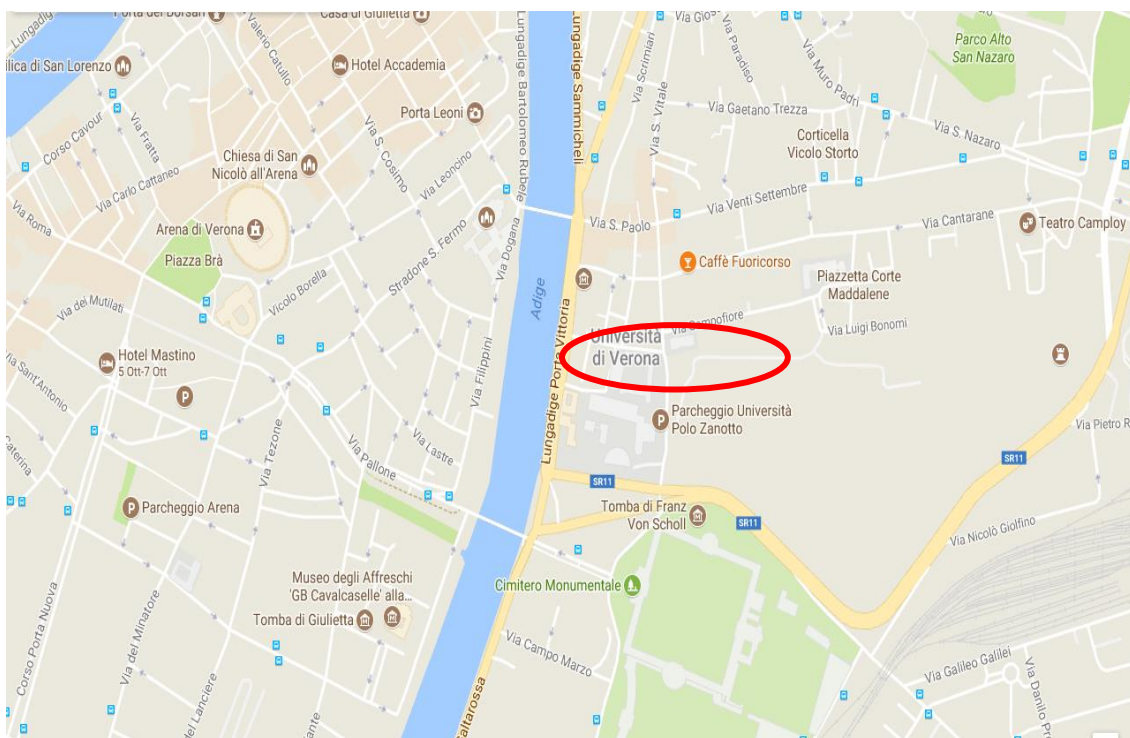
**POLO GIORGIO ZANOTTO**

**ROOM T1**

**UNIVERSITY OF VERONA**

**Viale dell'Università, 4**

**Verona (ITALY)**





**Friday, October 6, 2017**

**8.30 OPENING**

Welcome address from the authorities of the University of Verona

**9.00 SESSION I**

**10.30 INNATE IMMUNE RESPONSES**

Chairs: Cecilia Garlanda ( Humanitas University – Rozzano, Milano, Italy)  
Ennio Carbone (Magna Graecia University of Catanzaro, Italy),

**9.00 Keynote Lecture**

Stipan Jonjic (University of Rijeka , Croatia)  
Cytomegalovirus regulation of innate immune response

**9.50** IL-1R8: a novel checkpoint regulating anti-tumor and anti-viral activity of NK cells  
Martina Molgora (Humanitas Clinical and Research Center, Rozzano, Milan, Italy)

**10.00** TGF- $\beta$ 1 Downregulates the Expression of CX3CR1 by Inducing miR-27a-5p in primary human NK cells  
Fabio Caliendo (Department of Experimental Medicine, University of Genoa, Italy)

**10.10** Identification of a component of the extracellular matrix as a novel soluble ligand for the NKp44 natural cytotoxicity receptor  
Silvia Gaggero (Department of Experimental Medicine, University of Genoa, Italy)

**10.20** Hepatitis B virus affects the activation of dendritic cells and their cross-talk with natural killer cells  
Claudia De Pasquale (Laboratory of Immunology and Biotherapy, University of Messina and Department of Human Pathology, University Hospital *G.Martino*, Messina, Italy)

**10.30 BREAK**

**11.00** A novel functional cooperation between factor H and the long pentraxin PTX3 in the immune response to aspergillus  
Raffaella Parente (Humanitas Clinical and Research Centre, Rozzano, Milan, Italy)

**11.10** Aryl hydrocarbon receptor: a novel target for the anti-inflammatory activity of statin therapy  
Antonella Turco (Unit of Pharmacology, Department of Experimental Medicine, University of Perugia, Italy)

**11.20** Role of neutrophils in a imiquimod-induced mouse model of psoriasis  
Dalila Bevilacqua (Department of Medicine, Division of General Pathology, University of Verona, Italy)

**11.30** ACKR2 in hematopoietic precursors as a checkpoint of neutrophil release and antimetastatic activity  
Matteo Massara (Humanitas Clinical and Research Centre, Rozzano, and Department of Medical Biotechnologies and Translational Medicine, University of Milan, Italy)



- 11.40** On the production of the C-C motif chemokine ligand 23 (CCL23) by human neutrophils  
Fabio Arruda-Silva (Department of Medicine, Division of General Pathology, University of Verona, Italy)
- 11.50** Regulation of NK cell-activating ligands expression by liver X receptors by multiple myeloma cells  
Maria Teresa Billotta (Department of Molecular Medicine, Sapienza University of Rome, Italy)
- 12.00** Modulation of CXCR3/CXCL10 axis affects migration of Natural Killer cell populations in Multiple Myeloma  
Valentina Bonanni (Department of Molecular Medicine, Sapienza University of Rome, Italy)
- 12.10** DNA damage response (DDR)-dependent NK cell activating ligands upregulation in multiple myeloma cells: role of SAMHD1  
Ilaria Nardone (Department of Molecular Medicine, Sapienza University of Rome, Laboratory affiliated to Istituto Pasteur Italia –Fondazione Cenci Bolognetti, Rome, Italy)
- 12.20** Role of glucocorticoids in innate immune response during sepsis  
Shinjini Chakraborty (Institute for clinical and experimental traumaimmunology, Universitaetsklinikum Ulm, Germany)
- 12.30** Role of complement in cancer related inflammation  
Sabrina Di Marco (IRCCS - Humanitas Clinical and Research Centre, Rozzano, Milan, Italy)
- 12.40** Human circulating group 2 Innate Lymphoid Cells promote IgE production and can be shifted in vitro toward IFN- $\gamma$  producing cells  
Gianni Montaini (Department of Experimental and Clinical Medicine, University of Florence, Italy)
- 12.50** Regulation of the expression of IL-1R8, a regulatory member of the Interleukin-1 receptor family  
Domenico Supino (IRCCS - Humanitas Clinical and Research Centre, Rozzano, Milan, Italy)

### **13.00 POSTER SESSION**

#### **15.30**

Clustered Regularly Interspaced Short Palindromic Repeats Based Studies of Pathogenic Neutrophil Migration

Yang Long (Department of Medicine, Karolinska Institutet, Sweden)

The abundant natural killer cells in multiple myeloma patients are enriched in proliferating D56dimCD94low highly cytotoxic Natural Killer cell subset

Chiara Barberi (Department of Experimental Medicine (Dimes), and Center of Excellence for Biomedical Research (CEBR), University of Genoa, Italy)

Dissecting the genomic regulation of human emergency myelopoiesis

Valentina Bianchessi, (San Raffaele Telethon Institute for Gene Therapy (SR-TIGET), San Raffaele Scientific Institute, and Università Vita-Salute San Raffaele, Milan, Italy)





Characterization of mast cell-derived exosomes: from biogenesis to biological functions

Mario Lecce (Department of Molecular Medicine, Sapienza University of Rome, Italy)

Identification of chemotherapy-induced antigens suitable for immunotherapy in pancreatic cancer patients

Sara Bufalmante (Department of Molecular Biotechnology and Health Sciences, University of Turin, Italy)

Pancreatic cancer-related inflammation: in vivo screening to identify key targetable molecules

Cecilia Roux (A.O.U. Città della salute e della scienza di Torino, Experimental Medicine Research Center (CeRMS), University of Turin, Italy)

Implication of annexin A1 in Lupus Nephritis

Fatma Dhaffouli (Immunology Department, UR12SP14, Habib Bourguiba University Hospital, Sfax, Tunisia)

Impact of dimethyl fumarate treatment on the phenotype of circulating immune cells in Multiple Sclerosis patients

Teresa Micillo (Department of Biology, University of Napoli "Federico II", Napoli, Italy)

TIM-1 controls neutrophil trafficking in the central nervous system during autoimmune encephalomyelitis

Jessica Arioli (Department of Medicine, Division of General Pathology, University of Verona, Italy)

Effective immunomodulating and pro-angiogenic action of new nootropic preparation

Tatiana Nikolaienko (ESC Institute of biology and medicine, Taras Schvenchenko National University of Kijiv, Ukraine )

IDO1 activity in selected immune cells controls antibody responses

Giulia Scalisi ( Dept. of Experimental Medicine, University of Perugia, Italy)

A tridimensional (3D) model studying the pathogenesis of Alzheimer disease in vitro

Giulia Iannoto (Department of Medicine, Division of General Pathology, University of Verona, Italy)

Immunophenotypic characterization of IBTK<sup>-/-</sup> murine model

Gaetanina Golino ( Magna Graecia University of Catanzaro, Italy)

## **15.30 SESSION I**

### **16.40 INNATE IMMUNE RESPONSES**

Chairs: Francesca Granucci (Bicocca University of Milan, Italy)

Christos Tsatsanis (School of Medicine, University of Crete, Greece)

**15.30** Characterization of a conditional and reporter mouse model for the atypical chemokine receptor 2

Monica Valeria Poeta (Humanitas University, Rozzano, Milan, Italy)

**15.40** Analysis of innate immunity in bladder cancer

Gabriele Pizzolato (Department of Biomedical Sciences, Humanitas University, Rozzano, Milan, and Cladibior, Policlinico Universitario Paolo Giaccone, Palermo, Italy)



- 15.50** Skin infections are eliminated by cooperation of the fibrinolytic and innate immune systems  
William Santus (University of Milano Bicocca, Milan, Italy)
- 16.00** Changes in expression of AIM2, PYCARD and IL-1 $\beta$  in HIV+ patients with low CD4/CD8 ratio  
Simone Pecorini (Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia, Modena, Italy)
- 16.10** The pathogenetic role of C1q in mesothelial malignant transformation  
Romana Vidergar (Department of Life Sciences, University of Trieste, Trieste, Italy)
- 16.20** Extracellular microRNAs activate human Plasmacytoid Dendritic Cells via TLR7  
Veronica Gianello (Department of Molecular and Translational Medicine, University of Brescia, Italy)
- 16.30** The atypical receptor C-C chemokine receptor-like 2 does not act as a decoy receptor in endothelial cells  
Chiara Mazzotti (Department of Molecular and Translational Medicine, University of Brescia, Italy)
- 16.40** **BREAK**

## **17.00 SESSION II**

### **19.00 ADAPTIVE IMMUNE RESPONSES**

Chairs: Francesca Di Rosa (Italian National Research Council, Rome, Italy)  
Francesco Annunziato (University of Florence, Italy)

#### **17.00 Keynote Lecture**

Adrian Hayday (The Francis Crick Institute, Kings College London, UK)  
Learning immunology from human disease

- 17.50** Targeting the xCT cystine/glutamate antiporter through a Bovine Herpesvirus 4-based vaccination to eradicate breast cancer stem cells in the preclinical setting.

Roberto Ruiu (Department of Molecular Biotechnology and Health Sciences, Molecular Biotechnology Center, University of Torino, Italy).

- 18.00** Impact of nuclear hormone receptor activation on human B cell differentiation

Sandra Treptow (Klinik für Dermatologie, Venerologie und Allergologie, Charité-Universitätsmedizin Berlin, Germany)

- 18.10** Coenzyme A synthase controls pathogenic features in myelin-specific T cells by linking metabolic reprogramming to alteration of intracellular signaling pathways

Tommaso Carlucci (Department of Medicine, Division of General Pathology, University of Verona, Italy)



- 18.20** Targeting recipient antigen presenting cells with modified alloantigen to promote transplantation tolerance  
Monica Sen (Infection and immunity research group, School of Health, Sport and Bioscience, University of East London, London, UK)
- 18.30** Characterization of the  $\gamma\delta$ -T-cell-mediated immune control of murine Cytomegalovirus infections  
Anne Maria Hahn (Nikolaus-Fiebiger-Center for Molecular Medicine, Institute of Genetics, Department of Biology, University of Erlangen-Nuremberg (FAU), Erlangen, Germany)
- 18.40** B cell and T-specific immunomodulation by vitamin A and D in a murine type I allergy model  
Josephine Scholz (Department of Dermatology and Allergy, Charité - Universitätsmedizin Berlin and Deutsches Rheuma-Forschungszentrum Berlin)
- 20.30** Social dinner



**Saturday, October 7, 2017**

**8.30** SESSION II

**10.20** **ADAPTIVE IMMUNE RESPONSES**

Chairs: Winfried Pickl (Center for Pathophysiology, Infectiology & Immunology, Vienna, Austria)  
Raffaele De Palma (Second University of Neaples, Italy)

**8.30** **Keynote Lecture**

Imen BenMustapha (Institute Pasteur de Tunis, Tunisia)

Novel insights into Autoimmune Lymphoproliferative Syndrome due to FAS gene defects revealed by the studies of consanguineous patients

**9.20** Characterization of the role of CD83 expression in Foxp3+ regulatory T cell function in the context of inflammatory bowel disease.

Christina Koenig (Department of Immune Modulation, Dermatology, University Hospital Erlangen, Germany and DFG Training Group GK1660 *Key Signals in Adaptive Immune Response*)

**9.30** Posttranslational modifications of Immunoglobulin G in patients with autoimmune disease

Jasmin Knopf (Universitätsklinikum Erlangen – Department of Internal Medicine, Erlangen, Germany)

**9.40** Immunological tolerance mechanisms controlling human autoreactive CD8+ T cells in healthy and autoimmune conditions

Ilenia Cammarata (Department of Internal Medicine and Medical Specializations, Sapienza University, Rome, Italy) La Sapienza Roma (2° anno)

**9.50** Analysis of potential immunological markers associated with anti-PD-1 response in non- small cell lung cancer patients

Selene Ottonello (Department of Experimental Medicine (DiMES) and Center of Excellence for Biomedical Research (CEBR), University of Genoa, Italy)

**10.00** Chemokine receptor expression and migration of expanded myeloid lineage cells and osteoclast progenitor subpopulation in mouse model of rheumatoid arthritis

Darja Flegar (Department of Physiology and Immunology, University of Zagreb School of Medicine, Croatia)

**10.10** **Break**

**10.40** SESSION III

**13.15** **IMMUNE-MEDIATED DISEASES**

Chairs: Hans-Martin Jack (University of Erlangen-Nürnberg, Erlangen, Germany)  
Petter Höglund (Karolinska University Hospital, Stockholm, Sweden)

**10.40** **Keynote Lecture**

Claudio Lunardi (Department of Medicine, University of Verona, Italy)  
Infections, Immunodeficiency and Autoimmunity



- 11.30** Using NGS to identify inherited causes of the association of rare phenotype: retinitis pigmentosa (RP) and age related macular degeneration (AMD) in a consanguineous Tunisian family  
Imen Habibi (University Tunis El Manar, Tunis, Tunisia and Institute for Research in Ophthalmology (IRO), Sion, Switzerland)
- 11.40** Role of TLR3 in Lupus Erythematosus  
Nesrine Elloumi (Immunology Department, Habib Bourguiba Hospital, University of Sfax, Tunisia)
- 11.50** Deletion of Batf3-dependent antigen-presenting cells does not affect atherosclerotic lesion formation in mice  
Jesus Gil-Pulido (Institute of Experimental Biomedicine, University Hospital Würzburg, Germany)
- 12.00** Role of Peroxisome Proliferator Activated Receptor  $\beta/\delta$  in the pathophysiology of Multiple Myeloma  
Domenico Giannico ( Department of Biomedical Sciences and Human Oncology (DIMO), Section of Internal Medicine and Clinical Oncology, University of Bari, Italy).
- 12.10** Synergistic effect of Bortezomib and Chloroquine in multiple myeloma treatment  
Giuseppe Di Lernia (Department of Biomedical Sciences and Human Oncology, Aldo Moro University of Bari, Italy)
- 12.20** The role of NADPH oxidase in the regulation of intestinal homeostasis: implication for chronic granulomatous disease  
Martina Pellicciotta (Humanitas Clinical and Research Center, Rozzano, Milan, Italy)
- 12.30** Treg level in Bone Marrow inversely correlates with clonal expansion of cytotoxic effectors in Low Risk Myelodysplastic Syndrome patients.  
Angela Giovazzino (Department of Translational Medical Sciences, Federico II University of Naples, Italy)
- 12.40** Possible interaction between complement system and inflammatory cells in patients with active Rheumatoid Arthritis, before and after Abatacept treatment.  
Virginia Lotti (Department of Medicine, Section of Rheumatology, University of Verona, Italy)
- 12.50** A novel gain-of-function STAT3 mutation in a patient with multiple organ autoimmune disease  
Francesca Todaro (Department of Clinical and Experimental Sciences and Molecular and Translational Medicine, Institute of Molecular Medicine "Angelo Nocivelli," University of Brescia, Brescia, Italy)
- 13.00** Closing remarks - SIICA President Angela Santoni (La Sapienza University of Rome (Italy))