



Società Italiana di Immunologia  
Immunologia Clinica e Allergologia

PROGRAM

# SIICA 2021 XII NATIONAL CONGRESS

## VIRTUAL EDITION

26 - 28 MAY 2021

Under the Patronage of



**WEDNESDAY, MAY 26<sup>th</sup>**

11.30-12.00	INDUSTRY LECTURE BIO-RAD
12.00-12.30	INDUSTRY LECTURE BIOLENDAM CAMPOVERDE
12.30-12.45	INDUSTRY LECTURE QIAGEN
12.45-13.00	INDUSTRY LECTURE THERMO FISHER SCIENTIFIC
13.00-13.30	INDUSTRY LECTURE BECKMAN COULTER
13.30-14.00	<i>Break</i>
14.00-14.10	<b>OPENING</b>
14.10-15.40	COMBINED SYMPOSIUM SIICA- NIBIT -TUMOR IMMUNOLOGY AND TUMOR MICRO-ENVIRONMENT
15.40-15.50	<i>Break</i>
15.50-16.50	WORKSHOP - TUMOR IMMUNOLOGY
16.50-17.00	<i>Break</i>
17.00-17.50	KEYNOTE LECTURE EFIS AWARD
17.50-18.00	<i>Break</i>
18.00-18.30	INDUSTRY LECTURE CARLO ERBA REAGENTS

**THURSDAY, MAY 27<sup>th</sup>**

08.30-08.45	INDUSTRY LECTURE TAKIS
08.45-09.00	INDUSTRY LECTURE MILTENYI BIOTEC
09.00-10.30	MEMORIAL SYMPOSIUM FERNANDO AIUTI PRIMARY IMMUNODEFICIENCIES AND VIRAL PANDEMIC
10.30-10.40	<i>Break</i>
10.40-11.40	WORKSHOP "COVID19"
11.40-11.50	<i>Break</i>
11.50-12.40	KEYNOTE LECTURE
12.50-13.50	INDUSTRY SYMPOSIUM BECTON DICKINSON
13.50-14.00	<i>Break</i>
14.00-14.50	KEYNOTE LECTURE
14.50-15.00	<i>Break</i>
15.00-16.30	COMBINED SYMPOSIUM SIICA- AINI - NEUROIMMUNOLOGY
16.30-16.40	<i>Break</i>
16.40-18.30	GENERAL ASSEMBLY AND ELECTION COUNCIL BOARD

**TIMETABLE**

**FRIDAY, MAY 28<sup>th</sup>**

<b>08.20-08.50</b>	<b>INDUSTRY LECTURE FLOW JO</b>
<b>08.50-09.00</b>	<i>Break</i>
<b>09.00-09.30</b>	<b>MEMORIAL LECTURE ENNIO CARBONE</b>
<b>09.30-11.00</b>	<b>SYMPOSIUM INNATE IMMUNITY</b>
<b>11.00-11.10</b>	<i>Break</i>
<b>11.10-12.10</b>	<b>WORKSHOP - LEUKOCYTES</b>
<b>12.10-12.20</b>	<i>Break</i>
<b>12.20-13.10</b>	<b>KEYNOTE LECTURE SIICA PRESIDENT</b>
<b>13.10-13.25</b>	<b>SIICA AWARDS</b>
<b>13.25-13.30</b>	<b>ELECTED COUNCIL BOARD'S PRESENTATION AND CLOSING REMARKS</b>

**TIMETABLE**

**VIRTUAL SIICA CONGRESS WILL HELD ON CEST (Central European Summer Time)**

## SIICA SECRETARIAT



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Immunologia Clinica e Allergologia

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## ORGANIZING SECRETARIAT



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## REGISTRATION

Please note that this is the official SIICA Congress website [www.siica2021.it](http://www.siica2021.it) for registrations and that no other websites, companies or agencies are authorised to sell the registrations in any way or to contact you directly. Advance registrations are preferred in order to facilitate planning of the Congress's virtual scientific sessions.

## REGISTRATION FEES (Registration fees are in Euro (VAT 22% included))

Member SIICA*	€ 90,00	Congress registration fee includes: Access to all scientific sessions
Member GIC (Gruppo Italiano di Citometria)*	€ 150,00	
Non Member SIICA	€ 150,00	Access to the exhibition area Certificate of attendance
PhD students – specializzandi**	€ 50,00	Abstracts (digital)

Registration fees will be adjusted according to VAT charge alignment.

\* The reduced fee will be applied only to members with regular membership payments.

\*\* Copy of Proof of Status of PhD/Students is mandatory to be uploaded in the on-line platform directly (pdf format is required) during the registration process

Registration is mandatory for participation in the scientific sessions and for oral presenter and/or e-poster's authors.

The official language is English. No simultaneous translation is foreseen.

VIRTUAL SIICA CONGRESS WILL BE HELD ON CEST (Central European Summer Time)

### **E-POSTER SESSION**

On the SIICA platform <https://siica2021.livebit.it/> (available from 24<sup>th</sup> May 2021) there will be, for all registered participants, a section dedicated to the E-posters, click **“E-POSTER AREA”** button.

Moreover, SIICA Junior Faculty has organized two interactive poster sessions. Please see below the topics discussed during each session.

A Google Meet event has been created by E-poster’s Authors. In the E-Poster Area click the **“MEET THE AUTHOR”** button to open Google Meet event to discuss the e-posters according to the following schedule:

**Wednesday, May 26<sup>th</sup> - h. 18.30-19.15**

#### **SESSION I**

AUTOIMMUNITY AND ALLERGIES  
COVID19  
INNATE IMMUNITY  
MONOCYTES AND MACROPHAGES  
NK CELLS AND ILC  
T-CELLS

**Wednesday, May 26<sup>th</sup> - h. 19.15-20.00**

#### **SESSION II**

B-LYMPHOCITES  
CELL SIGNALING  
INFECTIONS AND IMMUNITY  
MAST CELLS AND GRANULOCYTES  
NEUROIMMUNOLOGY  
PRIMARY IMMUNODEFICIENCIES  
TUMOR IMMUNOLOGY

**IMPORTANT NOTE: Not all Authors have created a Google meet therefore you could not find a link in all the posters.**

### **SIICA GENERAL ASSEMBLY**

SIICA General Assembly is scheduled on Thursday 27<sup>th</sup> May at 16.40 with the following agenda:

1. President's report
  - Events 2020
  - Future events
2. Budget 2019 and 2020
3. Renewal of the Board
4. Junior Faculty
5. Honorary member proposal
7. Various

**The link to access the General Assembly will be provided by SIICA Secretariat only to SIICA Members participating in the virtual congress.**

### **COUNCIL ELECTION**

The list of candidates are available on the SIICA website ([www.siica.org](http://www.siica.org)) click here: Candidates for the Executive Board - Candidates for the Junior Faculty

The election of the board will be possible by logging into the SIICA website by clicking on this icon:



starting from **Thursday 27<sup>th</sup> May h. 17.00** to **Friday 28<sup>th</sup> May h. 11.00**.

Only Honorary members and active members in good standing with the payment of the dues attending the virtual congress are eligible to vote and will receive the voting instructions by e-mail. Each member can express up to six preferences.

If you don't remember your login credentials, ask the SIICA secretariat:  
[siica.amministrazione@siica.it](mailto:siica.amministrazione@siica.it)

The result of the election will be announced on Friday 28<sup>th</sup> May on the closing remarks at h. 13.25.

- 11.30** **INDUSTRY LECTURE BIO-RAD** (see page 28)  
**12.00** **SUCCESSFUL FLOW CYTOMETRY EXPERIMENTS WITH STARBRIGHT DYES**
- 12.00** **INDUSTRY LECTURE BIOLEGEND CAMPOVERDE** (see page 28)  
**12.30** **PROTEOGENOMICS AND TOTALSEQT REAGENTS: A NEW ERA OF SINGLE-CELL ANALYSIS**
- 12.30** **INDUSTRY LECTURE QIAGEN** (see page 28)  
**12.45** **IGRA APPROACHES TO TB AND SARS-COV-2 - QUANTIFERON SOLUTIONS**
- 12.45** **INDUSTRY LECTURE THERMO FISHER SCIENTIFIC** (see page 28)  
**13.00** **MEET THE BIGFOOT SPECTRAL CELL SORTER**
- 13.00** **INDUSTRY LECTURE BECKMAN COULTER** (see page 28)  
**13.30** **INFLAMMATION AND IMMUNE-SUPPRESSION: A DELICATE BALANCE IN COVID-19**
- 13.30** *Break*  
**14.00**
- 14.00** **OPENING**  
**14.10** **Angela SANTONI** (Italy)
- 14.10** **COMBINED SYMPOSIUM**  
**15.40** **SIICA-NIBIT-TUMOR IMMUNOLOGY AND TUMOR MICRO-ENVIRONMENT**  
Chairs: Paola NISTICÒ (Italy), Angelo VACCA (Italy)  
Webmoderator: Alessio MAZZONI (Italy)
- 14.10** Homophilic interactions of CD56 molecules in anti-tumor response  
**Guido FERLAZZO** (Italy)
- 14.30** Type I IFN signaling as a driver of cancer cell stemness and therapeutic resistance  
**Antonella SISTIGU** (Italy)
- 14.50** Lipidome reprogramming induces monocyte-to-DC differentiation and favors antitumor responses  
**Vincenzo RUSSO** (Italy)
- 15.10** Immunotherapy of pancreatic cancer based on tumor associated antigens targeting  
**Francesco NOVELLI** (Italy)
- 15.30** Question time
- 15.40** *Break*  
**15.50**

- 15.50** **WORKSHOP - TUMOR IMMUNOLOGY**  
**16.50** Chairs: **Marco A. CASSATELLA** (*Italy*), **Francesca GRANUCCI** (*Italy*)  
Webmoderator: **Alessio MAZZONI** (*Italy*)
- 15.50** Hindering triple negative breast cancer progression by targeting endogenous Interleukin-30 requires IFN $\gamma$  signaling  
**Stefania Livia CIUMMO**<sup>1</sup>, **Cristiano Fieni**<sup>1</sup>, **Luigi D'Antonio**<sup>1</sup>, **Scott I. Abrams**<sup>2</sup>, **Zhinan Yin**<sup>3</sup>, **Li-Fan Lu**<sup>2</sup>, **Carlo Sorrentino**<sup>1</sup>, **Emma Di Carlo**<sup>1</sup> (<sup>1</sup>*Italy*, <sup>2</sup>*USA*, <sup>3</sup>*China*)
- 16.00** Discussion
- 16.02** Neutrophils controlling the intestinal microbiota provide protection against colitis and colitis-associated colorectal cancer  
**Silvia CARNEVALE**<sup>1</sup>, **Andrea Ponzetta**<sup>2</sup>, **Roberta Carriero**<sup>1</sup>, **Anna Rigatelli**<sup>1</sup>, **Domenico Supino**<sup>1</sup>, **Simone Puccio**<sup>1</sup>, **Andrea Mariancini**<sup>1</sup>, **Fabio Pasqualini**<sup>1</sup>, **Camilla Recordati**<sup>1</sup>, **Claudio Tripodo**<sup>1</sup>, **Somayehsadat Ghasemi**<sup>1</sup>, **Paolo Kunderfranco**<sup>1</sup>, **Luna Cordeiro Minute**<sup>1</sup>, **Elena Magrini**<sup>1</sup>, **Cecilia Garlanda**<sup>1</sup>, **Alberto Mantovani**<sup>1</sup>, **Sebastien Jaillon** (<sup>1</sup>*Italy*, <sup>2</sup>*Sweden*)
- 16.12** Discussion
- 16.14** Intra-tumor combination therapy with poly(I:C) and resiquimod synergistically triggers tumor-associated macrophages for effective anti-tumoral immunity  
**Clément ANFRAY**<sup>1</sup>, **Francesco Mainini**<sup>1</sup>, **Elisabeth Digifico**<sup>1</sup>, **Akihiro Maeda**<sup>1</sup>, **Marina Sironi**<sup>1</sup>, **Marco Erreni**<sup>1</sup>, **Achille Anselmo**<sup>1</sup>, **Aldo Ummarino**<sup>1</sup>, **Sara Gandoy**<sup>2</sup>, **Francisco Expósito**<sup>2</sup>, **Mirian Redrado**<sup>2</sup>, **Alfonso Calvo**<sup>2</sup>, **Marvin Martens**<sup>3</sup>, **Susana Bravo**<sup>2</sup>, **Alberto Mantovani**<sup>1</sup>, **Paola Allavena**<sup>1</sup>, **Fernando Torres Andón**<sup>1,2</sup> (<sup>1</sup>*Italy*, <sup>2</sup>*Spain*, <sup>3</sup>*The Netherlands*)
- 16.24** Discussion
- 16.26** IL-1R8 acts as an immune checkpoint in CD8<sup>+</sup> T cells  
**Domenico SUPINO**, **Andrea Mariancini**, **Chiara Perucchini**, **Silvia Carnevale**, **Andrea Ponzetta**, **Roberta Carriero**, **Federico Colombo**, **Elena Magrini**, **Anna Rigatelli**, **Luna Cordeiro Minute**, **Martina Molgora**, **Somayehsadat Ghasemi**, **Paolo Kunderfranco**, **Sarah Mapelli**, **Alessia Donato**, **Sarah Tettamanti**, **Andrea Biondi**, **Enrico Lugli**, **Sebastien Jaillon**, **Alberto Mantovani**, **Cecilia Garlanda** (*Italy*)
- 16.36** Discussion
- 16.38** Immunomodulatory effect of NEDD8-activating enzyme inhibition in multiple myeloma: sensitization to Natural Killer cell recognition and killing  
**Sara PETILLO**, **Rosa Molfetta**, **Cristina Capuano**, **Chiara Pighi**, **Cinzia Fionda**, **Alessandra Zingoni**, **Alessandra Soriani**, **Maria Teresa Petrucci**, **Ricciarda Galandrini**, **Rossella Paolini**, **Angela Santoni**, **Marco Cippitelli** (*Italy*)
- 16.48** Discussion
- 16.50** *Break*  
**17.00**

**17.00** **KEYNOTE LECTURE EFIS AWARD**  
**17.50** Chair: **Raffaele DE PALMA** (*Italy*)  
Webmoderator: **Alessio MAZZONI** (*Italy*)

**17.00** New developments in the pathophysiology of immune deficiencies  
**Luigi NOTARANGELO** (*USA*)

**17.30** Question time

**17.50** *Break*  
**18.00**

**18.00** **INDUSTRY LECTURE CARLO ERBA REAGENTS** (*see page 28*)  
**18.30** **RESOLVING THE TRUE COMPLEXITY OF IMMUNOLOGY WITH 10X GENOMICS SINGLE CELL AND SPATIAL MULTIOMICS**

**MAY 26<sup>th</sup>, 2021**

**08.30** **INDUSTRY LECTURE TAKIS** (*see page 29*)  
**08.45** **PANDEMIC AND BEYOND: COVID-EVAX AND NEXT GENERATION GENETIC VACCINES**

**08.45** **INDUSTRY LECTURE MILTENYI BIOTEC** (*see page 29*)  
**09.00** **TOOLS FOR ANALYSIS OF HUMORAL AND CELLULAR RESPONSE TO SARS-COV-2**

**09.00** **MEMORIAL SYMPOSIUM FERNANDO AIUTI**  
**10.30** **PRIMARY IMMUNODEFICIENCIES AND VIRAL PANDEMIC**  
Chairs: **Marco GATTORNO** (*Italy*), **Anna VILLA** (*Italy*)  
Webmoderator: **Barbara CASSANI** (*Italy*)

**09.00** What Primary immunodeficiency diseases teach us about Covid  
**Alain FISCHER** (*France*)

**09.20** About the common in variable immunodeficiency  
**Klaus WARNATZ** (*Germany*)

**09.40** Antibody deficiencies and COVID-19  
**Isabella QUINTI** (*Italy*)

**10.00** Gene therapy for inborn errors of immunity  
**Alessandro AIUTI** (*Italy*)

**10.20** Question time

**10.30** *Break*  
**10.40**

**MAY 27<sup>th</sup>, 2021**

- 10.40** **WORKSHOP "COVID19"**  
**11.40** Chairs: **Francesco ANNUNZIATO** (*Italy*), **Isabella QUINTI** (*Italy*)  
 Webmoderator: **Barbara CASSANI** (*Italy*)
- 10.40** First dose mRNA vaccination is sufficient to reactivate immunological memory to SARS-CoV-2 in ex COVID-19 subjects  
**Alessio MAZZONI, Laura Maggi, Manuela Capone, Anna Vanni, Lorenzo Salvati, Giulia Lamacchia, Francesco Liotta, Lorenzo Cosmi, Francesco Annunziato, COVID Research Group** (*Italy*)
- 10.50** Discussion
- 10.52** Quantitative and qualitative alterations of circulating myeloid cells and plasmacytoid DC in SARS-CoV-2 infection  
**Benedetta PERUZZI, Sara Bencini, Manuela Capone, Alessio Mazzoni, Lorenzo Salvati, Laura Maggi, Anna Vanni, Chiara Orazzini, Francesco Liotta, Roberto Caporale, Lorenzo Cosmi, Francesco Annunziato, COVID Research Group** (*Italy*)
- 11.02** Discussion
- 11.04** Characterization of circulating dendritic cells in COVID-19 patients  
**Laura MARONGIU, Giulia Protti, Fabio Facchini, Mihai Valache, Francesca Mingozzi, Serena Curti, Valeria Bevilacqua, Mariacristina Crosti, Valeria Ranzani, Anna Rita Putignano, Lorenzo Salvati, Nicolò Tamini, Luca Nespoli, Mariella D'Angiò, Laura Bettini, Sergio Abrignani, Andrea Biondi, Roberto Spreafico, Francesca Granucci** (*Italy*)
- 11.14** Discussion
- 11.16** Dynamics of  $\gamma\delta$  t cells during severe acute respiratory syndrome coronavirus 2 infection  
**Elena LO PRESTI, Anna Maria Corsale, Marta Di Simone, Francesco Dieli, Serena Meraviglia** (*Italy*)
- 11.26** Discussion
- 11.28** Characterizing innate and adaptive immune responses to Sars-Cov2 in pregnant women and neonates  
**Maria Giulia CONTI, Eva Piano Mortari, Sara Terreri, Patrizia Palomba, Christian Albano, Francesco Corrente, Claudia Capponi, Giovanni Boscarino, Giulia Zacco, Francesca De Luca, Lucia Merlino, Cecilia Quaranta, Roberto Brunelli, Gianluca Terrin, Rita Carsetti** (*Italy*)
- 11.38** Discussion
- 11.40** *Break*  
**11.50**

- 11.50** **KEYNOTE LECTURE**  
**12.40** Chair: **Angela SANTONI** (*Italy*)  
 Webmoderator: **Barbara CASSANI** (*Italy*)
- 11.50** Innate immunity, from cancer to COVID-19  
**Alberto MANTOVANI** (*Italy*)
- 12.20** Question time
- 12.50** **INDUSTRY SYMPOSIUM BECTON DICKINSON** (*see page 29*)  
**13.50** **COVID EMERGENCY: FROM LABORATORY TO PATIENTS**
- 13.50** *Break*  
**14.00**
- 14.00** **KEYNOTE LECTURE**  
**14.50** Chair: **Francesco ANNUNZIATO** (*Italy*)  
 Webmoderator: **Federica LAUDISI** (*Italy*)
- 14.00** JAKs to jakinibs and beyond  
**John J. O'SHEA** (*USA*)
- 14.30** Question time
- 14.50** *Break*  
**15.00**
- 15.00** **COMBINED SYMPOSIUM SIICA-AINI NEUROIMMUNOLOGY**  
**16.30** Chairs: **Giovanna BORSELLINO** (*Italy*), **Roberto FURLAN** (*Italy*)  
 Webmoderator: **Federica LAUDISI** (*Italy*)
- 15.00** TCR repertoire dynamics in multiple sclerosis: comparing one shot and continuous immunosuppressive therapies  
**Clara BALLERINI** (*Italy*)
- 15.20** Metabolic control of immunological self-tolerance  
**Giuseppe MATARESE** (*Italy*)
- 15.40** Adrenergic activation of mesenchymal stem cell shapes immune repertoire in neuroinflammation  
**Antonio UCCELLI** (*Italy*)
- 16.00** The expanding field of neuronal antibody-associated disorders of the central nervous system  
**Matteo GASTALDI** (*Italy*)
- 16.20** Question time
- 16.30** *Break*  
**16.40**
- 16.40** **GENERAL ASSEMBLY AND ELECTION COUNCIL BOARD**  
**18.30**

**08.20** **INDUSTRY LECTURE FLOWJO** (see page 30)  
**08.50** **FLOWJO™ SOFTWARE: FULL WORKFLOW ANALYSIS FOR HIGH DIMENSIONAL FLOW CYTOMETRY**

**08.50** *Break*  
**09.00**

**09.00** **MEMORIAL LECTURE ENNIO CARBONE**  
**09.30** Chairs: **Raffaele DE PALMA** (Italy), **Francesca DI ROSA** (Italy)  
 Webmoderator: **Giuseppe SCIUMÈ** (Italy)

**09.00** In the memory of Ennio Carbone: a life with passion and purpose  
**Klas KÄRRE** (Sweden)

**09.25** Discussion

**09.30** **SYMPOSIUM INNATE IMMUNITY**  
**11.00** Chairs: **Marco A. CASSATELLA** (Italy), **Lorenzo MORETTA** (Italy)  
 Webmoderator: **Giuseppe SCIUMÈ** (Italy)

**09.30** Regulation of TLR8-activated gene expression and cytokine production in human neutrophils  
**Nicola TAMASSIA** (Italy)

**09.50** The CD94/NKG2A inhibitory receptor educates uterine NK cells to optimises pregnancy outcomes  
**Francesco COLUCCI** (United Kingdom)

**10.10** A new lung homing pathway for NK cells in antitumor immune surveillance  
**Annalisa DEL PRETE** (Italy)

**10.30** ILCs and MDSCs: new implications in immunotherapy  
**Paola VACCA** (Italy)

**10.50** Question time

**11.00** *Break*  
**11.10**

MAY 28<sup>th</sup>, 2021

- 11.10** **WORKSHOP - LEUKOCYTES**  
**12.10** Chairs: **Flavia BAZZONI** (*Italy*), **Matteo IANACONE** (*Italy*)  
Webmoderator: **Giuseppe SCIUMÈ** (*Italy*)
- 11.10** Role of danger and microbial signals in the control of the recruitment of neutrophil subpopulations during infections  
**Giulia STUCCHI, Laura Marongiu, Irene Artuso, Alessandra M. Martorana, Francesca Mingozzi, Ivan Orlandi, Marina Vai, Alessandra Polissi, Ivan Zanoni, Francesca Granucci** (*Italy*)
- 11.18** Discussion
- 11.20** A 3D-based model to study the crosstalk between intestinal organoids and mast cells  
**Chiara DAL SECCO, Silvia Tonon, Eleonora Martinis, Marta Codrich, Gianluca Tell, Carlo E.M. Pucillo, Barbara Frossi** (*Italy*)
- 11.28** Discussion
- 11.30** IL17A depletion affects the metabolism of macrophages in the presence of chemotherapy  
**Alessandro SCAGLIOTTI, Cecilia Roux, Gianluca Mucciolo, Joanna Kopecka, Silvia Brugiapaglia, Francesco Novelli, Chiara Riganti, Paola Cappello** (*Italy*)
- 11.38** Discussion
- 11.40** Role of autoantibodies in shaping human memory natural killer cell compartment  
**Cristina CAPUANO, Chiara Pighi, Simone Battella, Antonietta Ferretti, Erminia Baldacci, Cristina Santoro, Fabio Pulcinelli, Ombretta Turriziani, Gabriella Palmieri, Ricciarda Galandrini** (*Italy*)
- 11.48** Discussion
- 11.50** Restoration of follicular T cell compartment in patients with Wiskott Aldrich syndrome after gene therapy  
**Biagio DI LORENZO, Cristiana Trimarchi, Pasqualina De Leo, Jolanda Gerosa, Maria Carmina Castiello, Genni Enza Marcovecchio, Anna Villa, Alessandro Aiuti, Georgia Foustero, Maria Pia Cicalese** (*Italy*)
- 11.58** Discussion
- 12.00** Epigenetic and transcriptional control during CD8+ T cell fate commitment  
**Luca Petiti, Valentina Russo, Nadia Brasu, Luigia PACE** (*Italy*)
- 12.08**
- 12.10** *Break*  
**12.20**

**12.20**

**KEYNOTE LECTURE SIICA**

**13.10**

Chairs: **Marco A. CASSATELLA** (*Italy*), **Alberto MANTOVANI** (*Italy*)

Webmoderator: **Giuseppe SCIUMÉ** (*Italy*)

12.20

My life with killers

**Angela SANTONI** (*Italy*)

12.50

Question time

**13.10**

**SIICA AWARDS**

**13.25**

**13.25**

**ELECTED COUNCIL BOARD'S PRESENTATION AND CLOSING REMARKS**

**13.30**

**MAY 28<sup>th</sup>, 2021**

## 1. AUTOIMMUNITY AND ALLERGIES

- P1.01** Antibiotic-associated dysbiosis affects the ability of the gut microbiota to control intestinal inflammation upon faecal microbiota transplantation in experimental colitis models  
**Francesco STRATI, Meritxell Pujolassos, Claudia Burrello, Maria Rita Giuffrè, Georgia Lattanzi, Flavio Caprioli, Jacopo Troisi, Federica Facciotti** *(Italy)*
- P1.02** GATA6 deficiency leads to epithelial barrier dysfunction and enhances susceptibility to gut inflammation  
**Federica LAUDISI, Carmine Stolfi, Gerolamo Bevivino, Claudia Maresca, Eleonora Franzè, Edoardo Troncone, Elisabetta Lolli, Irene Marafini, Daniele Pietrucci, Adelaide Teofani, Antonio Di Grazia, Davide Di Fusco, Alfredo Colantoni, Angela Ortenzi, Alessandro Desideri, Ivan Monteleone, Giovanni Monteleone** *(Italy)*
- P1.03** Hypermotility of CD8+ T cells in Ankylosing Spondylitis subjects: cause or effect of a chronic inflammation?  
**Giorgia PALDINO, Valentina Tedeschi, Fabiana Paladini, Virginia Vigiano Benedetti, Marino Paroli, Mattia Congia, Alberto Cauli, Rosa Sorrentino, Maria Teresa Fiorillo** *(Italy)*
- P1.04** Diving into inflammation: a pilot study exploring the dynamics of the immune-microbiota axis in ileal tissue layers of patients with Crohn's disease  
**Edda RUSSO, Francesco Giudici, Federica Ricci, Stefano Scaringi, Giulia Nannini, Ferdinando Ficari, Cristina Luceri, Elena Niccolai, Simone Baldi, Mario D'Ambrosio, Matteo Ramazzotti, Amedeo Amedei** *(Italy)*
- P1.05** Targeted nanoparticles as a theranostic tool for the management of complement-mediated vascular thrombosis  
**Paolo Durigutto, Sara Capolla, Monica Argenziano, Roberta Cavalli, Mario Colucci, PierLuigi Meroni, Francesco Tedesco, Paolo MACOR** *(Italy)*
- P1.06** Elucidating the extracellular vesicle-associated determinants modulating Foxp3 expression and suppressive function of T regulatory cells in multiple sclerosis  
**Anne Lise FERRARA, Alessandra Colamatteo, Silvia Garavelli, Salvatore De Simone, Clorinda Fusco, Rosaria Prencipe, Giorgia Maniscalco, Laura Cantone, Valentina Bollati, Ilaria Giusti, Vincenza Dolo, Paola De Candia, Veronica De Rosa** *(Italy)*
- P1.07** Phenotypical and functional characterization of Foxp3Exon2+ Treg cell subset in the tumor microenvironment of breast cancer subjects  
**Rosaria PRENCIPE, Clorinda Fusco, Alessandra Colamatteo, Anne Lise Ferrara, Francesca Collina, Antonio Porcellini, Gerardo Botti, Antonello Accurso, Angela Volpe, Francesca Di Rella, Veronica De Rosa** *(Italy)*
- P1.09** Platelet phagocytosis controls the accumulation of microparticles in the plasma of patients with systemic sclerosis  
**Angelo A. MANFREDI, Giuseppe A Ramirez, Cosmo Godino, Annalisa Capobianco, Stefano Franchini, Antonella Monno, Enrico Tombetti, Jörg H.W. Distler, Marco E. Bianchi, Patrizia Rovere Querini, Norma Maugeri** *(Italy)*
- P1.11** Expression of CD26 (Dipeptidyl-peptidase IV) in muscle and blood cells of patients with idiopathic inflammatory myopathies  
**Rebecca De Lorenzo, Clara Sciorati, Antonella Monno, Isabella Lorenzetti, Angelo Andrea MANFREDI, Stefano Carlo Previtali, Patrizia Rovere-Querini** *(Italy)*

- P1.12** Monitoring of biological drugs in the treatment of autoimmune rheumatic diseases: advantages and limitations  
**Sara LA PALOMBARA**
- P1.13** Natural Killer cells as possible mediators of Graves' disease cure  
**Daniela GALLO, Federica Pierin, Grace Coco, Matteo Gallazzi, Adriana Lai, Maria Laura Tanda, Antonino Bruno, Eliana Piantanida, Lorenzo Mortara (Italy)**
- P1.14** Janus-faced liposomes as therapeutic tools to drive T suppressor phenotype in multiplesclerosis  
**Renato FALCICCHIA, Maria Tredicine, Gabriele Di Sante, Matteo Lucchini, Mariagrazia Valentini, Noemi Poerio, Assunta Bianco, Viviana Nociti, Federica Desa, Chiara Camponeschi, Camilla Moliterni, Maria De Carluccio, Massimiliano Mirabella, Maurizio Fraziano, Francesco Ria (Italy)**

## 2. B-LYMPHOCITES

- P2.01** Targeted chitosan nanobubbles: new approach for anti-microRNA-based therapy in Burkitt lymphoma models  
**Sara CAPOLLA, Monica Argenziano, Sara Bozzer, Tiziana D'Agaro, Tamara Bittolo, Luigina De Leo, Tarcisio Not, Davide Busato, Michele dal Bo, Giuseppe Toffoli, Roberta Cavalli, Valter Gattei, Riccardo Bomben, Paolo Macor (Italy)**
- P2.02** Three-dimensional in-vitro model for the study of Diffuse Large B cell Lymphoma antineoplastic treatments  
**Jessica CECCATO, Ilaria Caputo, Maria Piazza, Francesco Cinetto, Sabrina Manni, Francesco Piazza, Fabrizio Vianello (Italy)**
- P2.03** CRISPR/Cas9 and mRNA-based technology for gene editing and expression in human B cells  
**Anthea Di Rita, Laura Pezzella, Federica Nardi, Sara Ciofini, Alessandro Gozzetti, Monica Bocchia, Anna KABANOVA (Italy)**
- P2.04** Preclinical development of a modular nano-platform for the treatment of B-cells malignancies  
**Sara BOZZER, Luca De Maso, Sara Capolla, Paolo Durigutto, Daniele Sblattero, Paolo Macor (Italy)**
- P2.06** The dialogue between B cells and mast cells sustain IgA response in the inflamed intestine  
**Viviana Valeri<sup>1,2</sup>, Silvia TONON<sup>2</sup>, Eleonora Martinis<sup>2</sup>, Francesca Mion<sup>2</sup>, Carlo E.M. Pucillo<sup>2</sup> (<sup>1</sup>France, <sup>2</sup>Italy)**
- P2.07** Immune complexes sustain CpG-induced proliferation of rheumatoid factor-specific B cells in hepatitis C virus-cured mixed cryoglobulinemia by reversing TLR tolerance  
**Marcella VISENTINI, Martina Del Padre, Ylenia Aura Minafò, Ramona Marrapodi, Eva Piano Mortari, Chiara Bocci, Stefania Colantuono, Rita Carsetti, Massimo Fiorilli, Milvia Casato (Italy)**

### 3. CELL SIGNALING

- P3.01** Class IA phosphoinositide 3-kinases regulate subcellular and functional dynamics of indoleamine 2,3-dioxygenase 1  
**Eleonora Panfilì, Francesca De Marchis, Andrea Pompa, Michele Bellucci, Giada Mondanelli, Ciriana Orabona, Ursula Grohmann, Maria Teresa PALLOTTA** (*Italy*)

### 4. COVID19

- P4.01** Seroprevalence of SARS-CoV2 in IBD patients treated with biological therapy  
**Federica FACCIOTTI<sup>1</sup>, Roberto Bertè<sup>1</sup>, Stefano Mazza<sup>1</sup>, Erika Mileti<sup>1</sup>, Agnese Favale<sup>1</sup>, Raja Atreya<sup>2</sup>, Massimo Claudio Fantini<sup>1</sup>, Flavio Caprioli<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Germany*)
- P4.02** Cytokine and immune cell profiling in peripheral blood from patients with COVID-19 treated with tocilizumab  
**Martina BONACINI, Giulia Cassone, Laura Albertazzi, Piera Zaldini, Rossana Colla, Giovanni Dolci, Marco Massari, Nicola Facciolongo, Elisabetta Teopompi, Giulia Besutti, Francesco Muratore, Lucia Belloni, Ilaria Giovanelli, Sally Maramotti, Alessandro Zerbini, Carlo Salvarani, Stefania Croci** (*Italy*)
- P4.03** Immunophenotype analysis in patients with SARS-CoV-2 infection admitted to the IRCCS Sacro Cuore - Don Calabria Hospital  
**Sara CALDRER, Milena Bernardi, Marco Giuseppe Prato, Niccolò Ronzoni, Paola Rodari, Andrea Anghoben, Chiara Piubelli, Natalia Tiberti** (*Italy*)
- P4.04** Activation, trafficking and turnover of peripheral NK cells in COVID-19 patients  
**Federica Bozzano, Chiara Dentone, Carola PERRONE, Antonio Di Biagio, Daniela Fenoglio, Alessia Parodi, Malgorzata Mikulskaa, Bianca Bruzzone, Daniele Roberto Giacobbe, Antonio Vena, Lucia Taramasso, Laura Nicolini, Nicolò Patroniti, Paolo Pelosi, Angelo Gratarola, Raffaele De Palma, Gilberto Filaci, Matteo Bassetti, Andrea De Maria** (*Italy*)
- P4.05** High-throughput single-cell analysis revealed transcriptional response of dendritic cells subsets during severe acute respiratory syndrome Coronavirus 2 infection  
**Giulia PROTTI<sup>1</sup>, Laura Marongiu<sup>1</sup>, Fabio Facchini<sup>1</sup>, Mihai Valache<sup>1</sup>, Francesca Mingozzi<sup>1</sup>, Valeria Ranzani<sup>1</sup>, Anna Rita Putignano<sup>1</sup>, Lorenzo Salvati<sup>1</sup>, Valeria Bevilacqua<sup>1</sup>, Serena Curti<sup>1</sup>, Mariacristina Crosti<sup>1</sup>, Mariella D'Angiò<sup>1</sup>, Laura Bettini<sup>1</sup>, Andrea Biondi<sup>1</sup>, Luca Nespoli<sup>1</sup>, Nicolò Tamini<sup>1</sup>, Sergio Abrignani<sup>1</sup>, Roberto Spreafico<sup>2</sup>, Francesca Granucci<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Belgium*)
- P4.06** Tocilizumab in Covid-19: an integrated approach to evaluate treatment response.  
**Lorenzo SALVATI, Laura Maggi, Alessio Mazzoni, Manuela Capone, Anna Vanni, Giulia Lamacchia, Francesco Liotta, Francesco Annunziato, Lorenzo Cosmi, COVID Research Group 2** (*Italy*)
- P4.07** Cell-mediated and humoral adaptive immune responses to SARS-CoV-2 are lower in asymptomatic than symptomatic COVID-19 patients, both during infection and after recovering  
**Laura MAGGI, Alessio Mazzoni, Manuela Capone, Anna Vanni, Lorenzo Salvati, Lorenzo Cosmi, Francesco Liotta, Francesco Annunziato, COVID Research Group** (*Italy*)

- P4.08** Effects of two pharmacological approaches on cytokine storm in severe COVID-19 patients  
**Giulia LAMACCHIA, Laura Maggi, Alessio Mazzoni, Manuela Capone, Anna Vanni, Lorenzo Salvati, Lorenzo Cosmi, Francesco Liotta, Francesco Annunziato, COVID Research Group (Italy)**
- P4.09** CXCL-10 levels at hospital admission represent potential predictor of COVID-19 outcome  
**Rebecca De Lorenzo, Nicola I. LORÈ, Federica Cugnata, Paola M. V. Rancoita, Alessandra Agresti, Marco E. Bianchi, Chiara Bonini, Annalisa Capobianco, Caterina Conte, Angelo Corti, Roberto Furlan, Norma Maugeri, Clara Sciorati, Laura Silvestri, Cristina Tresoldi, Fabio Ciceri, Patrizia Rovere-Querini, Clelia Di Serio, Daniela M. Cirillo, Angelo A. Manfredi (Italy)**
- P4.10** SARS COV-2 childhood infection immunopathology: the counterbalance of Th2/Treg compartment and the protective role of immunoregulatory profile  
**Gabriele DI SANTE, Danilo Buonsenso, Maria Tredicine, Cristina De Rose, Ivana Palucci, Antonio Chiaretti, Daniele Guerino Biasucci, Nicola Bonadia, Flavio De Maio, Piero Valentini, Francesco Ria, Maurizio Sanguinetti, Michela Sali (Italy)**
- P4.11** Different Innate and adaptive immune responses to SARS-CoV-2 Infection of asymptomatic, mild, and severe cases  
**Eva Piano MORTARI, Sara Terreri, Salvatore Zaffina, Isabella Quinti, Rita Carsetti (Italy)**
- P4.12** Induction and maintenance of B-cell memory after SARS-CoV-2 vaccination in a population of hospital workers  
**Ane FERNANDEZ SALINAS, Sara Terreri, Eva Piano Mortari, Christian Albano, Claudia Alteri, Cristina Russo, Maria Rosaria Vinci, Salvatore Zaffina, Carlo Federico Perno, Rita Carsetti (Italy)**

**5. INFECTIONS AND IMMUNITY**

- P5.01** Dissecting the role of IFN $\gamma$  in the antiviral CD4+ T cells fate  
**Eleonora SALA, Eleonora Consolo, Matteo Iannacone, Mirela Kuka (Italy)**
- P5.02** Role of platelets in tuberculosis pathogenesis  
**Marco Pio LA MANNA, Valentina Orlando, Giusto Davide Badami, Bartolo Tamburini, Elena Lo Presti, Franca Del Nonno, Linda Petrone, Beatrice Belmonte, Laura Falasca, Paola Di Carlo, Francesco Dieli, Delia Goletti, Nadia Caccamo (Italy)**
- P5.03** Ex vivo stimulation of *Mycobacterium tuberculosis* specific TCD8+ HLA-E restricted cells by recombinant detoxified Bordetella pertussis toxoid  
**Giusto Davide BADAMI<sup>1</sup>, Marco Pio La Manna<sup>1</sup>, Mojtaba Shekarkar Azgomi<sup>1</sup>, Bartolo Tamburini<sup>1</sup>, Peter Sebo<sup>2</sup>, Ondrej Stanek<sup>2</sup>, Francesco Dieli<sup>1</sup>, Nadia Rosalia Caccamo<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>Czech Republic)**
- P5.04** Host-pathogen interface in *Staphylococcus aureus*-dependent osteomyelitis: emerging roles of the long pentraxin PTX3  
**Raffaella PARENTE<sup>1</sup>, Valentina Possetti<sup>1</sup>, Maša Filipović<sup>2</sup>, Ciro Menale<sup>1</sup>, Eleonora Palagano<sup>1</sup>, Maria Lucia Schiavone<sup>1</sup>, Barbara Bottazzi<sup>1</sup>, Alberto Mantovani<sup>1,3</sup>, Danka Grčević<sup>2</sup>, Cristina Sobacchi<sup>1</sup>, Antonio Inforzato<sup>1,3</sup> (<sup>1</sup>Italy, <sup>2</sup>Croatia, <sup>3</sup>United Kingdom)**

- P5.05** The serotonin pathway of tryptophan metabolism regulates inflammation in the lung  
**Fiorella D'ONOFRIO, Giorgia Renga, Marilena Pariano, Marina M Bellet, Claudia Stincardini, Ilaria Santarelli, Claudio Costantini, Luigina Romani (Italy)**
- P5.06** The modulation of toll like receptors/CD44 axis regulates clinical features of experimental and human multiple sclerosis  
**Maria TREDICINE, Mariagrazia Valentini, Matteo Lucchini, Maria Concetta Geloso, Massimiliano Mirabella, Marco Fidaleo, Alessia Piermattei, Giuseppe Migliara, Renato Falcicchia, Maria Foti, Gabriela Constantin, Francesco Ria, Gabriele Di Sante (Italy)**
- P5.07** Xenobiotic receptors cross-talk in lung infection and inflammation  
**Ilaria SANTARELLI, Giorgia Renga, Marilena Pariano, Fiorella D'Onofrio, Marina Maria Bellet, Claudia Stincardini, Claudio Costantini, Luigina Romani (Italy)**

## 6. INNATE IMMUNITY

- P6.01** Innate immune regulation of the inflammatory process  
**Ivan ZANONI (USA)**
- P6.03** Molecular and phenotypical analysis of immunosuppressive neutrophils from G-CSF-treated donors and cancer patients  
**Francesca PETTINELLA<sup>1</sup>, Barbara Mariotti<sup>1</sup>, Giulia Iannoto<sup>1</sup>, Sara Costa<sup>1</sup>, Olivia Marini<sup>1</sup>, Marta Donini<sup>1</sup>, Nicola Tamassia<sup>1</sup>, Sara Gasperini<sup>1</sup>, Francisco Bianchetto-Aguilera<sup>1</sup>, Federica Calzetti<sup>1</sup>, Stefano Dusi<sup>1</sup>, Sven Brandau<sup>2</sup>, Kirsten Bruderek<sup>2</sup>, Elena Cavegion<sup>1</sup>, Michele Milella<sup>1</sup>, Sara Pilotto<sup>1</sup>, Giulia Sartori<sup>1</sup>, Maurizio Cantini<sup>1</sup>, Giorgio Gandini<sup>1</sup>, Cristina Tecchio<sup>1</sup>, Flavia Bazzoni<sup>1</sup>, Marco A. Cassatella<sup>1</sup>, Patrizia Scapini<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>Germany)**
- P6.04** Functional HCMV-controlling NKG2C<sup>+</sup> NK cells are included in the progeny of newly characterized inflammatory common lymphocyte precursors  
**Federica Bozzano<sup>1</sup>, Mariella Della Chiesa<sup>1</sup>, Andrea Pelosi<sup>1</sup>, Francesca Antonini<sup>1</sup>, Maria Libera Ascierio<sup>2</sup>, Genny Del Zotto<sup>1</sup>, Francesca Moretta<sup>1</sup>, Letizia Muccio<sup>1</sup>, Alessandro Moretta<sup>1</sup>, Lorenzo Moretta<sup>1</sup>, Andrea DE MARIA<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>USA)**
- P6.05** Longitudinal study of C1q and anti-C1q auto-antibodies in homologous and heterologous pregnancies  
**Chiara AGOSTINIS, Gabriella Zito, Isabel Peterlunger, Alessandro Mangogna, Miriam Toffoli, Livia Simoni, Andrea Balduit, Tiziana Salviato, Federico Romano, Giuseppe Ricci, Roberta Bulla (Italy)**
- P6.06** Effects of whole-body cryotherapy on the innate immune response in football players  
**Marco MATTIOLI, Domenico Lo Tartaro, Annmaria Paolini, Sara De Biasi, Lara Gibellini, Marcello Pinti, Anna De Gaetano, Roberta D'Alisera, Laura Roli, Pasqualino Maietta, Ferdinando Tripi, Emanuele Guerra, Anna Vittoria Mattioli, Gustavo Savino, Tommaso Trenti, Andrea Cossarizza, Milena Nasi (Italy)**
- P6.07** Role of CCRL2 in the regulation of CXCR4- and CXCR2-dependent neutrophil homing  
**Ilaria BARBAZZA, Tiziana Schioppa, Chiara Mazzotti, Francesca Sozio, Laura Tiberio, Annalisa Del Prete, Mario Mellado, Silvano Sozzani (Italy)**

**P6.08** Human neutrophils activated by TLR8 agonists, with or without IFN $\gamma$ , synthesize and release EBI, but not IL-1, IL-2, IL-3, or IL-39  
**Elisa GARDIMAN<sup>1</sup>, Fabio Arruda-Silva Arruda-Silva<sup>1</sup>, Francisco Bianchetto-Aguilera<sup>1</sup>, Sara Gasperini<sup>1</sup>, Mattia Bugatti<sup>1</sup>, William Vermi<sup>1</sup>, Frederique Larousse<sup>2</sup>, Odile Devergne<sup>2</sup>, Nicola Tamassia<sup>1</sup>, Marco A. Cassatella<sup>1</sup>** (*Italy, <sup>2</sup>France*)

**P6.09** Single nucleotide polymorphisms in IL1RN gene affect the response to anakinra in systemic juvenile idiopathic arthritis and alters IL1RN and IL1B gene expression  
**Marianna Nicoletta ROSSI, Manuela Pardeo, Denise Pires Marafon, Emanuela Sacco, Chiara Passarelli, Claudia Bracaglia, Giusi Prencipe, Fabrizio De Benedetti** (*Italy*)

**P6.10** Psoriasis-related miR203 activates NK cells by a complex pDC/monocyte/NK cell crosstalk  
**H. Oanh NGUYEN, Veronica Gianello, Helena Stabile, Carolina Gaudenzi, Angela Gismondi, Silvano Sozzani, Daniela Bosisio, Valentina Salvi** (*Italy*)

**P6.11** Differential expression and regulation of MS4A molecules in myeloid cells in physiological and pathological conditions  
**Rita SILVA-GOMES<sup>1</sup>, Sarah N. Mapelli<sup>1</sup>, Marie-Astrid Boutet<sup>2</sup>, Irene Mattioli<sup>3</sup>, Marina Sironi<sup>1</sup>, Fabio Grizzi<sup>1</sup>, Federico S. Colombo<sup>1</sup>, Fabio Pasqualini<sup>1</sup>, Matteo Stravalaci<sup>1</sup>, R  mi Porte<sup>1</sup>, Constantino Pitzalis<sup>2</sup>, Maria Jos   Oliveira<sup>4</sup>, Massimo Locati<sup>1</sup>, Barbara Bottazzi<sup>1</sup>, Alberto Mantovani<sup>1</sup>** (*Italy, <sup>2</sup>United Kingdom, <sup>3</sup>Germany, <sup>4</sup>Portugal*)

## 7. MAST CELLS AND GRANULOCYTES

**P7.01** Vascular endothelial growth factors and angiopoietins as new players in mastocytosis  
**Simone MARCELLA, Angelica Petraroli, Mariantonia Braile, Roberta Parente, Anne Lise Ferrara, Maria Rosaria Galdiero, Luca Modestino, Leonardo Cristinziano, Massimo Triggiani, Giuseppe Spadaro, Stefania Loffredo** (*Italy*)

**P7.02** Neutrophils and neutrophil extracellular traps in severe bronchial asthma  
**Luca MODESTINO, Leonardo Cristinziano, Remo Poto, Chiara Catalan, Anne Lise Ferrara, Stefania Loffredo, Simone Marcella, Giuseppe Spadaro, Gilda Varricchi, Maria Rosaria Galdiero** (*Italy*)

**P7.03** Characterization of the transcriptional profile of circulating granulocytes in chronic obstructive pulmonary disease  
**Barbara MARIOTTI, Natalia Troyanova, Francesco Spelta, Valentina Micheletti, Marcello Ferrari, Ernesto Crisafulli, Flavia Bazzoni** (*Italy*)

## 8. MONOCYTES AND MACROPHAGES

- P8.02** Macrophage-polarizing stimuli differentially modulate the inflammatory profile induced by the secreted phospholipase A2 group IA in human lung macrophages  
**Anne Lise FERRARA, Maria Rosaria Galdiero, Alforonso Fiorelli, Francescopaolo Granata, Rosa Maria Di Crescenzo, Mariantonia Braile, Simone Marcella, Luca Modestino, Leonardo Cristinziano, Giuseppe Spadaro, Mario Santini, Stefania Loffredo** *(Italy)*
- P8.03** Deciphering the fate of slan + -monocytes in human tonsils by gene expression profiling  
**Francisco Miguel Angel BIANCHETTO AGUILERA, Nicola Tamassia, Sara Gasperini, Federica Calzetti, Giulia Finotti, Gardiman Elisa, Willian Vermi, Marco A. Cassatella** *(Italy)*
- P8.04** Role of NAMPT/Visfatin and adipokines cluster in inflammation-associated osteoarthritis  
**Mauro PASSARI, Tiziana Schioppa, Valentina Salvi, Francesca Sozio, Iliaria Barbazza, Micaela Fredi, Angela Tincani, Franco Franceschini, Antonio Sica, Silvano Sozzani, Annalisa Del Prete** *(Italy)*

## 9. NEUROIMMUNOLOGY

- P9.01** Amyotrophic lateral sclerosis: the engagement of natural killer cells  
**Anna Maria CORSALE, Francesca Castro, Elena Lo Presti, Vincenzo La Bella, Francesco Dieli, Serena Meraviglia** *(Italy)*
- P9.02** Intracellular content of superoxide dismutase-1 in T lymphocytes associates with increased regulatory T cells in multiple sclerosis individuals undergoing immune-modulating treatment  
**Valentina RUBINO, Anna Teresa Palatucci, Giuliana La Rosa, Francesco Aruta, Angela Giovazzino, Flavia Carriero, Simona Damiano, Mariarosaria Santillo, Paolo Mondola, Giuseppina Ruggiero, Rosa Iodice, Giuseppe Terrazzano** *(Italy)*
- P9.03** The use of arundic acid as novel therapy for multiple sclerosis  
**Chiara CAMPONESCHI, Gabriele Di Sante, Susanna Amadio, Beatrice Sampaolese, Maria Elisabetta Clementi, Maria Tredicine, Cinzia Volonte, Patrizia Casalbore, Rosa Di Liddo, Vincenzo Romano Spica, Pier Paolo Parnigotto, Francesco Ria, Fabrizio Michetti** *(Italy)*
- P9.04** Gene expression profiling identifies specific signatures in peripheral blood monocytes of multiple sclerosis patients  
**Ilenia SAVINETTI, Angela Maria Papagna, Iliaria Burba, Domenico Caputo, Marco Rovaris, Maria Foti** *(Italy)*

## 10. NK CELLS AND ILC

- P10.01** Peripheral blood natural killer cells in prostate cancer patients acquire the decidual-like CD56brightCD9+CD49a+ phenotype and support angiogenesis in vitro, acting on endothelial cells and polarizing macrophages toward the M2-like/TAM phenotype  
**Matteo Gallazzi, Denisa Baci, Annalisa Bosi, Giuseppe Buono, Angelo Naselli, Andrea Guarneri, Federico Dehò, Paolo Capogrosso, Adriana Albini, Douglas Noonan, Antonino BRUNO** (Italy)
- P10.02** Education of murine natural killer cells - cell biological and molecular correlates  
**Lucia Carmela PASSACATINI, Jessica Hachene, Maria Johansson, Klas Kärre** (Sweden)
- P10.03** Frequencies and functional properties of innate lymphoid cells are altered in melanoma patients and modulated by immune checkpoints inhibitors  
**Costanza Maria CRISTIANI<sup>1</sup>, Carlo Sorrentino<sup>1</sup>, Cinzia Garofalo<sup>1</sup>, Mariaelena Capone<sup>1</sup>, Luigi D'Antonio<sup>1</sup>, Gabriele Madonna<sup>1</sup>, Domenico Mallardo<sup>1</sup>, Cristiano Fieni<sup>1</sup>, Marta Greco<sup>1</sup>, Daniela Patrizia Foti<sup>1</sup>, Emma Di Carlo<sup>1</sup>, Paolo Antonio Ascierto<sup>1</sup>, Hergen Spits<sup>2</sup>, Ennio Carbone<sup>1,3</sup>** (Italy, <sup>2</sup>The Netherlands, <sup>3</sup>Sweden)
- P10.04** Deciphering the role of NK cells/ILC1 in liver metastasis from colorectal cancer  
**Eleonora RUSSO, Luana Tomaipitca, Chiara Di Censo, Giuseppe Sciumè, Angela Santoni, Giovanni Bernardini** (Italy)
- P10.05** Immunomodulatory properties of extracellular vesicles carrying NKG2D activating ligands: a double edge sword in cancer immunosurveillance  
**Elisabetta VULPIS, Luisa Loconte, Rosa Molfetta, Giulio Caracciolo, Laura Masuelli, Maria Teresa Petrucci, Rossella Paolini, Angela Santoni, Alessandra Zingoni** (Italy)
- P10.06** Dissecting roles for type 1 innate lymphoid cells in colitis and colitis-induced colorectal cancer  
**Gianluca SCARNO, Giuseppe Pietropaolo, Chiara Di Censo, Julija Mazej, Giovanna Peruzzi, Angela Santoni, Giuseppe Sciumè** (Italy)
- P10.07** Granzyme A and CD160 expression defines distinct ILC1 subsets in the mouse liver  
**Chiara DI CENSO, Gianluca Scarno, Giuseppe Pietropaolo, Giovanna Peruzzi, Julija Mazej, Angela Santoni, Giuseppe Sciumè** (Italy)
- P10.08** Chimeric antigen receptor engineered NK-92 cells against prostate specific membrane antigen: an off-the-shelf cellular therapeutic for targeted elimination of prostate cancer cells  
**Gaia ZUCCOLOTTO, Antonio Rosato, Isabella Monia Montagner, Debora Carpanese, Alessandro Penna** (Italy)

## 11. PRIMARY IMMUNODEFICIENCIES

- P11.01** A COVID-associated variant in the ciliogenesis protein CCDC28B disrupts immune synapse assembly  
**Nagaja CAPITANI<sup>1</sup>, Anna Onnis<sup>1</sup>, Francesca Finetti<sup>1</sup>, Chiara Cassioli<sup>1</sup>, Alessandro Plebani<sup>1</sup>, Jlenia Brunetti<sup>1</sup>, Arianna Troilo<sup>1</sup>, Sofia D'Elios<sup>1</sup>, Manuela Baronio<sup>1</sup>, Luisa Gazzurelli<sup>1</sup>, Daniel Billadeau<sup>2</sup>, Mario Milco D'Elios<sup>1</sup>, Vassilios Lougaris<sup>1</sup>, Cosima Baldari<sup>1</sup>** (Italy, <sup>2</sup>USA)

E - POSTERS

**P11.02** Altered NKG2D/NKG2D-ligand pathway in ataxia-telangiectasia patients  
**Maria Giovanna Desimio, Andrea Finocchi, Gigliola Di Matteo, Silvia Di Cesare, Beatrice Rivalta, Carmela Giacotta, Caterina Cancrini, Margherita DORIA** (Italy)

**P11.03** CTLA-4 haploinsufficiency: clinical and immunological data from a single center cohort of patients  
**Stefano ROSSI, Giulio Tessarin, Manuela Baronio, Luisa Gazzarelli, Silvia Giliani, Raffaele Badolato, Alessandro Plebani, Vassilios Lougaris**

**P11.04** Whole-exome sequencing in common variable immunodeficiency  
**Boaz PALTERER, Manuela Capone, Lorenzo Salvati, Emanuele Vivarelli, Aldesia Provenzano, Lucia Tiberi, Silvia Ricci, Chiara Azzari, Riccardo Capecci, Paola Migliorini, Giulia Carli, Giacomo Emmi, Roberto Caporale, Benedetta Peruzzi, Anna Vanni, Paola Parronchi, Laura Maggi, Alessio Mazzoni, Sabrina Giglio, Rosangela Artuso, Lorenzo Cosmi, Alessandra Vultaggio, Andrea Matucci, Francesco Liotta, Francesco Annunziato** (Italy)

## 12. T-CELLS

**P12.02** miR-21 sustains CD28-signalling and facilitates low affinity T-cell responses at the expense of self-tolerance  
**Maya FEDELI, Mirela Kuka, Annamaria Finardi, Francesca Albano, Valentina Viganò, Matteo Iannaccone, Roberto Furlan, Paolo Dellabona, Giulia Casorati** (Italy)

**P12.03** CD28-associated class 1A PI3K regulates IL-22-mediated epithelial barrier functions in human T lymphocytes  
**Martina KUNKL, Carola Amormino, Simone Frascolla, Manolo Sambucci, Marco De Bardi, Silvana Caristi, Stefano Arcieri, Luca Battistini, Loretta Tuosto** (Italy)

**P12.04** Identification of functional subsets of T lymphocytes based on the expression of immune-checkpoints, in juvenile idiopathic arthritis  
**Anna VANNI, Alessio Mazzoni, Laura Maggi, Manuela Capone, Roberto Semeraro, Giulia Lamacchia, Lorenzo Salvati, Alberto Magi, Rolando Cimaz, Lorenzo Cosmi, Francesco Liotta, Francesco Annunziato** (Italy)

**P12.05** The intraflagellar transport protein IFT20 recruits ATG16L1 to early endosomes to promote autophagosome formation in T cells  
**Fabrizia ZEVOLINI<sup>1</sup>, Francesca Finetti<sup>1</sup>, Chiara Cassioli<sup>1</sup>, Valentina Cianfanelli<sup>2</sup>, Anna Onnis<sup>1</sup>, Monica Gesualdo<sup>1</sup>, Jlenia Brunetti<sup>1</sup>, Francesco Cecconi<sup>2</sup>, Cosima Baldari<sup>1</sup>** (Italy, <sup>2</sup>Denmark)

**P12.06** CD8+ T stem cell memory cells in tuberculosis  
**Mojtaba SHEKARKAR AZGOMI<sup>1</sup>, Giusto D. Badam<sup>1</sup>, Marco P. La Manna<sup>1</sup>, Lucy C. Sullivan<sup>2</sup>, Andrew G. Brooks<sup>2</sup>, Francesco Dieli<sup>1</sup>, Nadia Caccamo<sup>1</sup>** (Italy, <sup>2</sup>Australia)

### 13. TUMOR IMMUNOLOGY

- P13.01** PD-1 signaling regulates Drp1-dependent mitochondrial fission in tumor-infiltrating T cells  
**Luca SIMULA, Valeria Cancila, Ylenia Antonucci, Claudio Tripodo, Silvia Campello** (Italy)
- P13.02** Human Intestinal and circulating invariant natural killer T cells are cytotoxic against colorectal cancer cells via the perforin/granzyme pathway  
**Angelica DIAZ BASABE, Claudia Burrello, Georgia Lattanzi, Federica Facciotti** (Italy)
- P13.03** CD8+ T cell dynamics within hepatocellular carcinoma  
**Federica Moalli, Xenia Ficht, Bianca PARTINI, Gioia Ambrosi, Davide Marotta, Elisa Bono, Pietro Di Lucia, Alessio Cantore, Luigi Naldini, Luca G. Guidotti, Matteo Iannacone** (Italy)
- P13.04** Inflammatory HMGB1 modulation in primary and metastatic breast cancer patients treated with different therapy  
**Fabio SCIROCCHI, Andrea Botticelli, Simone Scagnoli, Angelica Pace, Alessandra Di Filippo, Chiara Napoletano, Ilaria Grazia Zizzari, Hassan Rahiimi Koshkaki, Paolo Marchetti, Marianna Nuti, Aurelia Rughetti** (Italy)
- P13.05** Circulating Immune profile of uveal melanoma patients: impact on clinical outcome  
**Ilaria Grazia ZIZZARI, Ernesto Rossi, Alessandra Di Filippo, Anna Acampora, Monica Maria Pagliara, Maria Antonietta Blasi, Luana Lionetto, Maurizio Simmaco, Andrea Botticelli, Paolo Marchetti, Giampaolo Tortora, Giovanni Schinzari, Marianna Nuti** (Italy)
- P13.06** Regulatory T cells capture iron through the transferrin receptor during physiological and tumor-associated expansion  
**Ilenia PACELLA, Gloria Tucci, Silvia Piconese** (Italy)
- P13.07** Steady IFN $\alpha$  therapy prevents the development of colorectal liver metastasis through the activation of liver sinusoidal endothelial cells  
**Ngoc Lan Tran, Maria Lorena Ferreira, Blanca Alvarez-Moya, Valentina Buttiglione, Andrea Monestiroli, Paola Zordan, Barbara Ferrini, Claudio Fagioli, Antonio Esposito, Riccardo Leone, Paolo Marra, Luca G Guidotti, Giovanni SITIA** (Italy)
- P13.08** Role of CD36 in multiple myeloma progression  
**Eleonora MALERBA, Antonio Giovanni Solimando, Patrizia Leone, Rossella Fasano, Alessio Buonavoglia, Marcella Prete, Carolina Terragna, Michele Cavo, Angelo Vacca, Vito Racanelli** (Italy)
- P13.09** Interleukin-9 secreted by leukemic cells from chronic lymphocytic leukemia patients promotes cytotoxic T cell exhaustion  
**Vanessa TATANGELO, Gioia Boncompagni, Nagaja Capitani, Eva Puccioni, Federica Frezzato, Andrea Visentin, Livio Trentin, Gianpietro Carlo Semenzato, Cosima Baldari, Laura Patrucci** (Italy)
- P13.10** C1q-hyaluronic acid matrix as an in vitro model for mimicking the response to chemotherapeutic drugs in malignant pleural mesothelioma  
**Andrea BALDUIT, Alessandro Mangogna, Miriam Toffoli, Chiara Agostinis** (Italy)

E - POSTERS

- P13.11** Aberrant WNT/ $\beta$ -catenin signaling as a therapeutic target in hepatocellular carcinoma  
**Rossella FASANO<sup>1</sup>, Patrizia Leone<sup>1</sup>, Antonio Giovanni Solimando<sup>1</sup>, Eleonora Malerba<sup>1</sup>, Antonella Argentiero<sup>1</sup>, Markus Krebs<sup>2</sup>, Nicola Silvestris<sup>1</sup>, Angelo Vacca<sup>1</sup>, Vito Racanelli<sup>1</sup>**  
*(<sup>1</sup>Italy, <sup>2</sup>Germany)*
- P13.12** Stearoyl-coenzyme A desaturase 1 and Tregs metabolic adaptations in hepatocellular carcinoma  
**Alessandra ROSSI, Ilenia Pacella, Federica Pelliccia, Marta Zagaglioni, Silvia Piconese**  
*(Italy)*
- P13.13** P53 reactivation by PEG-PLA copolymer nanoformulation improves Natural Killer cell targeting of melanoma cells  
**Cinzia GAROFALO<sup>1</sup>, Marco Naddeo<sup>1</sup>, Costanza Maria Cristiani<sup>1</sup>, Carmela Passacatini<sup>1</sup>, Madhurendra Singh<sup>2</sup>, Galina Selivanova<sup>2</sup>, Daniela Pappalardo<sup>1</sup>, Ennio Carbone<sup>1,2</sup>** (<sup>1</sup>Italy, <sup>2</sup>Sweden)
- P13.14** Dual targeting of cancer and suppressive myeloid cells by tumor-redirectioned iNKT cells and antigen-carrying microparticles  
**Gloria DELFANTI<sup>1</sup>, Filippo Cortesi<sup>1</sup>, Claudio Garavaglia<sup>1</sup>, Michela Consonni<sup>1</sup>, Haifa Shen<sup>3</sup>, Giulia Casorati<sup>1</sup>, Paolo Dellabona<sup>1</sup>** (<sup>1</sup>Italy, <sup>2</sup>Germany, <sup>3</sup>USA)
- P13.15** In pancreatic cancer patients chemotherapy, but not immune checkpoint blockade, rescues effector T cell response to tumor associated antigens  
**Silvia BRUGIAPAGLIA, Sara Bulfamante, Laura Follia, Claudia Curcio, Daniele Giordano, Rosella Spadi, Maria Antonietta Satolli, Lisa Bonello, Paola Cappello, Francesco Novelli**  
*(Italy)*
- P13.16** Neutrophil PD-L1 expression as a novel predictive biomarker for IV stage melanoma patients  
**Leonardo CRISTINZIANO, Luca Modestino, Carmela Della Monica, Marilena Capone, Gabriele Madonna, Domenico Mallardo, Stefania Loffredo, Anne Lise Ferrara, Mariantonia Braile, Simone Marcella, Vito Vanella, Lucia Festino, Paolo Antonio Ascierto, Gianni Marone, Maria Rosaria Galdiero** *(Italy)*
- P13.17** Donor-unrestricted targeting of CD1c-expressing leukemia by T cells engineered with lipid-specific TCR  
**Michela CONSONNI<sup>1</sup>, Claudio Garavaglia<sup>1</sup>, Andrea Grilli<sup>1</sup>, Claudia de Lalla<sup>1</sup>, Alessandra Mancino<sup>1</sup>, Lucia Mori<sup>2</sup>, Gennaro De Libero<sup>2</sup>, Daniela Montagna<sup>1</sup>, Monica Casucci<sup>1</sup>, Marta Serafini<sup>1</sup>, Chiara Bonini<sup>1</sup>, Daniel Häussinger<sup>2</sup>, Fabio Ciceri<sup>1</sup>, Massimo Bernardi<sup>1</sup>, Sara Mastaglio<sup>1</sup>, Paolo Dellabona<sup>1</sup>, Giulia Casorati<sup>1</sup>** (<sup>1</sup>Italy, <sup>2</sup>Switzerland)
- P13.18** Targeting toll-like receptor 2 to impair breast cancer progression and resistance to chemotherapy  
**Antonino Di Lorenzo, Elisabetta Bolli, Roberto Ruiu, Federica Cavallo, Laura CONTI**  
*(Italy)*
- P13.19** Role of calcineurin in affecting tumor growth and the formation of the tumor microenvironment  
**Mihai VALACHE, Laura Marongiu, Francesca Mingozzi, Fabio Facchini, Roberto Spreafico, Renato Ostuni<sup>4</sup>, Angelo Lombardo, Francesca Granucci** *(Italy)*

- P13.20** Targeting the cystine/glutamate antiporter xCT and Mutant-p53 synergistically hinders breast cancer progression  
**Antonino DI LORENZO, Giuseppina Barutello, Alessandro Gasparetto, Federica Cavallo, Laura Conti** (*Italy*)
- P13.21** Prognostic value of circulating immunologic parameters in NSCLC patients treated with nivolumab: a pilot study  
**Manuela CAPONE, Laura Maggi, Francesca Mazzoni, Lorenzo Cosmi, Paolo Petreni, Luca Boni, Enrico Caliman, Alessio Mazzoni, Serena Pillozzi, Marinella Micol Mela, Francesco Annunziato, Lorenzo Antonuzzo, Francesco Liotta** (*Italy*)
- P13.22** Complement activation promoted by the lectin pathway mediates C3aR-dependent sarcoma progression and immunosuppression  
**Elena MAGRINI, Sabrina Di Marco, Sarah Mapelli, Chiara Perucchini, Fabio Pasqualini, Alessia Donato, Maria de la Luz Guevara Lopez, Roberta Carriero, Andrea Ponzetta, Piergiuseppe Colombo, Ferdinando Cananzi, Domenico Supino, Edimara S. Reis, Clelia Peano, Antonio Inforzato, Sebastien Jaillon, Andrea Doni, John D. Lambris, Alberto Mantovani, Cecilia Garlanda** (*Italy*)
- P13.23** Investigating the cystine/glutamate antiporter xCT in the interaction between mammary cancer and the immune system  
**Roberto RUIU, Chiara Cossu, Laura Conti, Luca Ponzone, Elisabetta Bolli, Enzo Calautti, Federica Cavallo** (*Italy*)
- P13.24** Identification of Teneurin 4 as a novel cancer stem cell-associated antigen and potential biomarker  
**Giulia PEPPINO, Giuseppina Barutello, Roberto Ruiu, Maddalena Arigoni, Federica Riccardo, Laura Conti, Raffaele Calogero, Elena Quaglinò** (*Italy*)
- P13.25** Emerging immunological checkpoints put the brakes on melanoma infiltrating  $\gamma\delta$  T cells  
**Marta DI SIMONE, Anna Barbara Di Stefano, Anna Maria Corsale, Luigi Montesano, Elena Lo Presti, Francesca Toia, Adriana Cordova, Francesco Dieli, Serena Meraviglia** (*Italy*)
- P13.26** Maternal immunization against anaplastic lymphoma kinase: a new weapon against neuroblastoma  
**Giuseppina BARUTELLO<sup>1</sup>, Federica Riccardo<sup>1</sup>, Claudia Voena<sup>1</sup>, Giulia Peppino<sup>1</sup>, Elisabetta Bolli<sup>1</sup>, Elena Quaglinò<sup>1</sup>, Roberto Chiarle<sup>2</sup>, Federica Cavallo<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P13.27** A chimeric human/Dog DNA vaccine against the chondroitin sulfate proteoglycan 4 reveals potential therapeutic effects for the treatment of melanoma  
**Federica RICCARDO<sup>1</sup>, Lidia Tarone<sup>1</sup>, Davide Giacobino<sup>1</sup>, Mariateresa Camerino<sup>1</sup>, Giuseppina Barutello<sup>1</sup>, Maddalena Arigoni<sup>1</sup>, Elisabetta Bolli<sup>1</sup>, Selina Iussich<sup>1</sup>, Sergio Occhipinti<sup>1</sup>, Soldano Ferrone<sup>2</sup>, Paolo Buracco<sup>1</sup>, Federica Cavallo<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P13.28** CSPG4 immune-targeting as novel strategy for the treatment of osteosarcoma  
**Lidia TARONE<sup>1</sup>, Davide Giacobino<sup>1</sup>, Selina Iussich<sup>1</sup>, Soldano Ferrone<sup>2</sup>, Paolo Buracco<sup>1</sup>, Federica Cavallo<sup>1</sup>, Federica Riccardo<sup>1</sup>** (*Italy, <sup>2</sup>USA*)

- P13.29** Nutlin-3a enhances natural killer cell-mediated killing of neuroblastoma by restoring p53-dependent expression of ligands for NKG2D and DNAM-1 receptors  
**Irene Veneziani, Paola Infante, Elisa Ferretti, Ombretta Melaiu, Cecilia Battistelli, Valeria Lucarini, Mirco Compagnone, Aurora Castellano, Marzia Ognibene, Annalisa Pezzolo, Lucia Di Marcotullio, Roberto Bei, Doriana Fruci, Vito Pistoia, Lorenzo Moretta, Vincenzo Barnaba, Franco Locatelli, Loredana CIFALDI (Italy)**
- P13.30** Macrophage-driven inflammation in malignant pleural mesothelioma: role of Osteopontin and GPNMB in tumor progression  
**Elisabeth DIGIFICO, Marco Erreni, Federico Simone Colombo, Camilla Recordati, Giovanni Luca Ceresoli, Massimo Roncalli, Roberta Frapolli, Maurizio D'Incalci, Paola Allavena, Cristina Belgiovine (Italy)**
- P13.31** A disintegrin and metalloproteinases inhibitors direct effects and brentuximab vedotin enhancement in Hodgkin's lymphoma 3-dimensional models  
**Maria Raffaella Zocchi, Roberta PECE, Sara Tavella, Delfina Costa, Serena Varesano, Caterina Camodeca, Doretta Cuffaro, Elisa Nuti, Armando Rossello, Massimo Alfano, Cristina D'Arrigo, Denise Galante, Jean-Louis Ravetti, Marco Gobbi, Francesca Tosetti, Alessandro Poggi (Italy)**
- P13.32** Immune microenvironment profiling of breast cancer brain metastases using multiplex immunofluorescence  
**Anna TOSI<sup>1</sup>, Gaia Griguolo<sup>1</sup>, Valentina Rossi<sup>1</sup>, Valentina Guarneri<sup>1</sup>, Maria Vittoria Dieci<sup>1</sup>, Susan Fineberg<sup>2</sup>, Luc Bauchet<sup>3</sup>, Valerie Rigau<sup>2</sup>, William Jacot<sup>3</sup>, Amelie Darlix<sup>3</sup>, Pierfranco Conte<sup>1</sup>, Antonio Rosato<sup>1</sup> (Italy, <sup>2</sup>USA, <sup>3</sup>France)**
- P13.33** Tumor microenvironment characterization of Human papillomavirus-positive and -negative oropharyngeal squamous cell carcinomas  
**Beatrice PARISATTO, Anna Tosi, Antonio Rosato, Paolo Boscolo Rizzo (Italy)**
- P13.34** Caspase-11 is at the crossroad between smoke-induced inflammation and lung cancer in mice  
**Chiara COLARUSSO, Michela Terlizzi, Aldo Pinto, Rosalinda Sorrentino (Italy)**
- P13.36** Patient-derived colon epithelial organoids as a three dimensional model to study Vδ2T cell-mediated immune response in colorectal carcinomas  
**Federico VILLA, Roberto Benelli, Delfina Costa, Leonardo Castrillo, Claudio Malfatto, Francesca Tosetti, Maria Raffaella Zocchi, Alessandro Poggi (Italy)**
- P13.37** Role of tumor-associated macrophages in immune evasion in colorectal cancer  
**Annica BARIZZA, Sara Coletta, Marta Tromboni, Marina de Bernard, Gaia Codolo (Italy)**
- P13.38** hMENA11a loss activates Type I IFN and inflammatory pathways, and in turn PD-L1 expression, by activating the viral sensor RIG-I  
**Paola TRONO, Annalisa Tocci, Belinda Palermo, Anna Di Carlo, Francesca De Nicola, Frauke Goeman, Giacomo Corleone, Lorenzo D'Ambrosio, Alessandra Zevini, Maurizio Fanciulli, John Hiscott, Francesca Di Modugno, Paola Nisticò (Italy)**
- P13.39** A novel and effective hyaluronic acid-based vaccination strategy for the prevention and treatment of HER2/neu-overexpressing breast cancers  
**Debora CARPANESE, Isabella Monia Montagner, Anna Dalla Pietà, Valentina Rossi, Antonella Grigoletto, Gianfranco Pasut, Antonio Rosato (Italy)**

# **SPONSORED SESSIONS**

**11.30**  
**12.00**

**INDUSTRY LECTURE BIO-RAD**  
**SUCCESSFUL FLOW CYTOMETRY EXPERIMENTS WITH STARBRIGHT DYES**

Chair: **Andrea TRADORI** (Italy)  
Speaker: **Mike BLUNDELL** (United Kingdom)



**12.00**  
**12.30**

**INDUSTRY LECTURE BIOLEGEND CAMPOVERDE**  
**PROTEOGENOMICS AND TOTALSEQT REAGENTS: A NEW ERA OF SINGLE-CELL ANALYSIS**

Chair: **Isabella QUINTI** (Italy)  
Speaker: **Carsten WIETHE** (Germany)



**12.30**  
**12.45**

**INDUSTRY LECTURE QIAGEN**  
**IGRA APPROACHES TO TB AND SARS-COV-2 - QUANTIFERON SOLUTIONS**

Chair: **Marco A. CASSATELLA** (Italy)  
Speaker: **Vladyslav NIKOLAYEVSKYY** (United Kingdom)



**12.45**  
**13.00**

**INDUSTRY LECTURE THERMO FISHER SCIENTIFIC**  
**MEET THE BIGFOOT SPECTRAL CELL SORTER**

Chair: **Flavia BAZZONI** (Italy)  
Speaker: **Andrea PREDONZANI** (Italy)



**13.00**  
**13.30**

**INDUSTRY LECTURE BECKMAN COULTER**  
**INFLAMMATION AND IMMUNE-SUPPRESSION: A DELICATE BALANCE IN COVID-19**

Chair: **Francesca DI ROSA** (Italy)  
Speaker: **Alessandra SACCHI** (Italy)



**18.00**  
**18.30**

**INDUSTRY LECTURE CARLO ERBA REAGENTS**  
**RESOLVING THE TRUE COMPLEXITY OF IMMUNOLOGY WITH 10X GENOMICS SINGLE CELL AND SPATIAL MULTIOMICS**

Chair: **Diego MUZZINI** (Italy)  
Speaker: **Luca MAZZITELLI** (Italy)



**MAY 26<sup>th</sup>, 2021**

**08.30**  
**08.45**

**INDUSTRY LECTURE TAKIS**  
**PANDEMIC AND BEYOND: COVID-EVAX AND NEXT GENERATION**  
**GENETIC VACCINES**  
Chair: **Matteo IANNAcone** (Italy)  
Speaker: **Luigi AURISICCHIO** (Italy)



**08.45**  
**09.00**

**INDUSTRY LECTURE MILTENYI BIOTEC**  
**TOOLS FOR ANALYSIS OF HUMORAL AND CELLULAR RESPONSE**  
**TO SARS-COV-2**  
Chair: **Francesco ANNUNZIATO** (Germany)  
Speaker: **Cristina CONFORTI ANDREONI** (Italy)



**12.50**  
**13.50**

**INDUSTRY SYMPOSIUM BECTON DICKINSON**  
**COVID EMERGENCY: FROM LABORATORY TO PATIENTS**  
Chair: **Armando GABRIELLI** (Italy)



12.50

Short introduction  
**Mara BO** (Italy)

12.55

Risks and challenges into flow cytometry lab during the COVID era  
**Daniela FRABONI** (Italy)

13.15

Investigation of lymphocyte subsets as relevant biomarkers to prioritize patient care  
**Francesco BUCCISANO** (Italy)

13.35

Discussion and final messages

**MAY 27<sup>th</sup>, 2021**

**08.20**  
**08.50**

**INDUSTRY LECTURE FLOWJO**  
**FLOWJO™ SOFTWARE: FULL WORKFLOW ANALYSIS FOR  
HIGH DIMENSIONAL FLOW CYTOMETRY**  
Chair: **Giuseppe SCIUMÈ** (*Italy*)  
Speaker: **Serena DI CECILIA** (*Italy*)



**MAY 28<sup>th</sup>, 2021**

## ACKNOWLEDGEMENTS

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