



Società Italiana di Immunologia
Immunologia Clinica e Allergologia

PRELIMINARY
PROGRAM

SIICA 2021 XII NATIONAL CONGRESS

GOES VIRTUAL

26 - 28 MAY 2021

SIICA SECRETARIAT



Rita Repizzi
Phone +39 333 4398196
www.siica.org
siica.amministrazione@siica.it

CONGRESS WEBSITE AT
WWW.SIICA2021.IT

ORGANISING SECRETARIAT



Viale G. Matteotti, 7 • 50121 Florence • Italy
Ph. +39 055 50351
General information: siica2021@oic.it

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WEDNESDAY, MAY 26th

| | |
|-------------|--|
| 11.30-13.30 | INDUSTRY WEBINAR |
| 14.00-14.10 | OPENING |
| 14.10-15.40 | COMBINED SYMPOSIUM SIICA- NIBIT -TUMOR IMMUNOLOGY AND TUMOR MICRO-ENVIRONMENT |
| 15.40-15.50 | Break |
| 15.50-16.50 | WORKSHOP - TUMOR IMMUNOLOGY |
| 16.50-17.00 | Break |
| 17.00-17.50 | KEYNOTE LECTURE EFIS AWARD |

THURSDAY, MAY 27th

| | |
|-------------|--|
| 08.30-09.00 | INDUSTRY LECTURES |
| 09.00-10.30 | MEMORIAL SYMPOSIUM FERNANDO AIUTI PRIMARY IMMUNODEFICIENCIES AND VIRAL PANDEMIC |
| 10.30-10.40 | Break |
| 10.40-11.40 | WORKSHOP "COVID19" |
| 11.40-11.50 | Break |
| 11.50-12.40 | KEYNOTE LECTURE |
| 12.50-13.50 | INDUSTRY WEBINAR |
| 13.50-14.00 | Break |
| 14.00-14.50 | KEYNOTE LECTURE |
| 14.50-15.00 | Break |
| 15.00-16.30 | COMBINED SYMPOSIUM SIICA- AINI - NEUROIMMUNOLOGY |
| 16.30-16.40 | Break |
| 16.40-18.30 | GENERAL ASSEMBLY AND ELECTION EXECUTIVE BOARD |

FRIDAY, MAY 28th

| | |
|-------------|--|
| 09.00-09.30 | MEMORIAL LECTURE ENNIO CARBONE |
| 09.30-11.00 | SYMPOSIUM INNATE IMMUNITY |
| 11.00-11.10 | Break |
| 11.10-12.10 | WORKSHOP - LEUKOCYTES |
| 12.10-12.20 | Break |
| 12.20-13.10 | KEYNOTE LECTURE SIICA PRESIDENT |
| 13.10-13.25 | SIICA AWARDS |
| 13.25-13.30 | ELECTED EXECUTIVE BOARD'S PRESENTATION AND CLOSING REMARKS |

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General Info: siica2021@oic.it

Sponsor&Exhibitor: sponsorsiica2021@oic.it

Faculty and Scientific Program: facultyiica2021@oic.it

Abstract: abstractsiica2021@oic.it

Registrations: registrationsiica2021@oic.it

REGISTRATION

Please note that is the official SIICA Congress website 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. Pre-registration will be accepted by 21 May 2021.

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

| | | |
|---|----------|-------------------------------------|
| Member SIICA* | € 90,00 | Congress registration fee includes: |
| Member GIC (Gruppo Italiano di Citometria)* | | Access to all scientific sessions |
| 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 up loaded 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.

11.30 **INDUSTRY WEBINARS**
13.30

14.00 **OPENING**
14.10 **Francesco ANNUNZIATO (Italy), Marco CASSATELLA (Italy), Angela SANTONI (Italy)**

14.10 **COMBINED SYMPOSIUM**
15.40 **SIICA-NIBIT-TUMOR IMMUNOLOGY AND TUMOR MICRO-ENVIRONMENT**
Chairs: **Paola NISTICÒ (Italy), Angelo VACCA (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

MAY 26th, 2021

15.50 **WORKSHOP - TUMOR IMMUNOLOGY**

16.50 Chairs: **Marco CASSATELLA** (Italy), **Francesca GRANUCCI** (Italy)

15.50 Hindering triple negative breast cancer progression by targeting endogenous Interleukin-30 requires IFN γ signaling
Stefania Livia CIUMMO¹, **Cristiano Fieni**¹, **Luigi D'Antonio**¹, **Scott I. Abrams**², **Zhinan Yin**³, **Li-Fan Lu**², **Carlo Sorrentino**¹, **Emma Di Carlo**¹ (¹Italy, ²USA, ³China)

16.00 Discussion

16.02 Identification of Common Lymphoid Precursors cells in cancer patients
Carola PERRONE, **Federica Bozzano**, **Andrea De Maria**, **Marco Tagliamento**, **Maria Giovanna Dal Bello**, **Carlo Genova** (Italy)

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 ANFRAY¹, **Francesco Mainini**¹, **Elisabeth Digifico**¹, **Akihiro Maeda**¹, **Marina Sironi**¹, **Marco Erreni**¹, **Achille Anselmo**¹, **Aldo Ummarino**¹, **Sara Gandoy**², **Francisco Expósito**², **Mirian Redrado**², **Alfonso Calvo**², **Marvin Martens**³, **Susana Bravo**², **Alberto Mantovani**¹, **Paola Allavena**¹, **Fernando Torres Andón**^{1,2} (¹Italy, ²Spain, ³The Netherlands)

16.24 Discussion

16.26 IL-1R8 acts as an immune checkpoint in CD8⁺ 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 Kunderfranko**, **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)

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

17.30 Question time

MAY 26th, 2021

08.30 **INDUSTRY LECTURES**
09.00

09.00 **MEMORIAL SYMPOSIUM FERNANDO AIUTI**
09.30 **PRIMARY IMMUNODEFICIENCIES AND VIRAL PANDEMIC**
Chairs: **Marco GATTORNO** (*Italy*), **Anna VILLA** (*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 27th, 2021

- 10.40** **WORKSHOP "COVID19"**
11.40 Chairs: **Francesco ANNUNZIATO (Italy), Isabella QUINTI (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 Mazzone, 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 Salviati, 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 Merlini, 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*)

11.50 Innate immunity, from cancer to COVID-19
Alberto MANTOVANI (*Italy*)

12.20 Question time

12.50

INDUSTRY WEBINAR

13.50

13.50

Break

14.00

14.00

KEYNOTE LECTURE

14.50 Chair: **Francesco ANNUNZIATO** (*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*)

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 EXECUTIVE BOARD

18.30

09.00 **MEMORIAL LECTURE ENNIO CARBONE**

09.30 Chairs: **Raffaele DE PALMA** (*Italy*), **Francesca DI ROSA** (*Italy*)

09.00 NK cells: a talk to honor the memory of Ennio Carbone - TBC
Klas KÄRRE (*Sweden*)

09.25 Discussion

09.30 **SYMPOSIUM INNATE IMMUNITY**

11.00 Chairs: **Marco CASSATELLA** (*Italy*), **Lorenzo MORETTA** (*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 28th, 2021

- 11.10** **WORKSHOP - LEUKOCYTES**
- 12.10** Chairs: **Flavia BAZZONI** (*Italy*), **Matteo IANNAZONE** (*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 Mingozi, 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 Fusteri, 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**

MAY 28th, 2021

12.20

KEYNOTE LECTURE SIICA

13.10

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

12.20

My life with killers

Angela SANTONI (*Italy*)

12.50

Question time

13.10

SIICA AWARDS

13.25

13.25

ELECTED EXECUTIVE BOARD'S PRESENTATION AND CLOSING REMARKS

13.30

MAY 28th, 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, Iliaria 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)*
- P1.08** Immuno-metabolic analysis in new-onset psoriasis defines clusters of correlation and indicates a candidate diagnostic signature
Elisabetta Tarentini, Giulia Odorici, Valeria Righi, Alessia Paganelli, Luca Giacomelli, Valentina Mirisola, Adele Mucci, Luisa Benassi, Elisabetta D'Aversa, Claudia Lasagni, Shaniko Kaleci, Eva REALI, Cristina Magnoni *(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)
- P1.10** Self-reactive T cells in an autoimmune model of psoriasis-like inflammation
Francesca Mingozi, Guendalina Montico, Fabio Casciano, Laura Gornati, Erika Marzola, Remo Guerrini, Francesca Granucci, Eva REALI (Italy)
- P1.11** Expression of CD26 (Dipeptidyl-peptidasi 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)
- P2.05** Glutathione modulates B cell metabolism and function
Davide G. FRANCHINA, Dirk Brenner (Luxembourg)
- P2.06** The dialogue between B cells and mast cells sustain IgA response in the inflamed intestine
Viviana Valeri^{1,2}, Silvia TONON², Eleonora Martinis², Francesca Mion², Carlo E.M. Pucillo² (¹France, ²Italy)
- 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 FACCIOTTI¹, Roberto Bertè¹, Stefano Mazza¹, Erika Mileti¹, Agnese Favale¹, Raja Atreya², Massimo Claudio Fantini¹, Flavio Caprioli¹ (¹Italy, ²Germany)
- 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 Angheben, 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 PROTTI¹, Laura Marongiu¹, Fabio Facchini¹, Mihai Valache¹, Francesca Mingozzi¹, Valeria Ranzani¹, Anna Rita Putignano¹, Lorenzo Salviati¹, Valeria Bevilacqua¹, Serena Curti¹, Mariacristina Crosti¹, Mariella D'Angiò¹, Laura Bettini¹, Andrea Biondi¹, Luca Nespoli¹, Nicolò Tamini¹, Sergio Abrignani¹, Roberto Spreafico², Francesca Granucci¹ (Italy, ²Belgium)
- 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 γ 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 BADAMI¹, Marco Pio La Manna¹, Mojtaba Shekarkar Azgomi¹, Bartolo Tamburini¹, Peter Sebo², Ondrej Stanek², Francesco Dieli¹, Nadia Rosalia Caccamo¹ (¹Italy, ²Czech Republic)
- P5.04** Host-pathogen interface in *Staphylococcus aureus*-dependent osteomyelitis: emerging roles of the long pentraxin PTX3
Raffaella PARENTE¹, Valentina Possetti¹, Maša Filipović², Ciro Menale¹, Eleonora Palagano¹, Maria Lucia Schiavone¹, Barbara Bottazzi¹, Alberto Mantovani^{1,3}, Danka Grčević², Cristina Sobacchi¹, Antonio Inforzato^{1,3} (¹Italy, ²Croatia, ³United 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*)
- P6.02** Activated phosphoinositide 3-kinase delta syndrome 1: clinical and immunological data from an Italian cohort of eight patients
Giulio TESSARIN, Stefano Rossi, Manuela Baronio, Luisa Gazzurelli, Michael Colpani, Alessio Benvenuto, Fabio Cardinale, Baldassarre Martire, Letizia Brescia, Giorgio Costagliola, Gabriella Casazza, Maria Cristina Menconi, Francesco Saettini, Raffaele Badolato, Marco Chiarini, Daniele Moratto, Silvia Giliani, Maria Pia Bondioni, Alessandro Plebani, Vassilios Lougaris (*Italy*)
- P6.03** Molecular and phenotypical analysis of immunosuppressive neutrophils from G-CSF-treated donors and cancer patients
Francesca PETTINELLA¹, Barbara Mariotti¹, Giulia Iannoto¹, Sara Costa¹, Olivia Marini¹, Marta Donini¹, Nicola Tamassia¹, Sara Gasperini¹, Francisco Bianchetto-Aguilera¹, Federica Calzetti¹, Stefano Dusi¹, Sven Brandau², Kirsten Bruderek², Elena Caviggioni¹, Michele Milella¹, Sara Pilotto¹, Giulia Sartori¹, Maurizio Cantini¹, Giorgio Gandini¹, Cristina Tecchio¹, Flavia Bazzoni¹, Marco Antonio Cassatella¹, Patrizia Scapini¹ (*¹Italy, ²Germany*)
- P6.04** Functional HCMV-controlling NKG2C⁺ NK cells are included in the progeny of newly characterized inflammatory common lymphocyte precursors
Federica Bozzano¹, Mariella Della Chiesa¹, Andrea Pelosi¹, Francesca Antonini¹, Maria Libera Ascierio², Genny Del Zotto¹, Francesca Moretta¹, Letizia Muccio¹, Alessandro Moretta¹, Lorenzo Moretta¹, Andrea DE MARIA¹ (*¹Italy, ²USA*)
- 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 Baldui, 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
Iliara 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 γ , synthesize and release EBI, but not IL-1, IL-2, IL-3, or IL-39
Elisa GARDIMAN¹, Fabio Arruda-Silva Arruda-Silva¹, Francisco Bianchetto-Aguilera¹, Sara Gasperini¹, Mattia Bugatti¹, William Vermi¹, Frederique Larousserie², Odile Devergne², Nicola Tamassia¹, Marco A. Cassatella¹ (*¹Italy, ²France*)

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 Bosio, Valentina Salvi (Italy)

P6.11 Differential expression and regulation of MS4A molecules in myeloid cells in physiological and pathological conditions
Rita SILVA-GOMES¹, Sarah N. Mapelli¹, Marie-Astrid Boutet², Irene Mattioli³, Marina Sironi¹, Fabio Grizzi¹, Federico S. Colombo¹, Fabio Pasqualini¹, Matteo Stravalaci¹, Rémi Porte¹, Constantino Pitzalis², Maria José Oliveira⁴, Massimo Locati¹, Barbara Bottazzi¹, Alberto Mantovani¹ (¹Italy, ²United Kingdom, ³Germany, ⁴Portugal)

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 Catalano, 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 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 CRISTIANI¹, Carlo Sorrentino¹, Cinzia Garofalo¹, Mariaelena Capone¹, Luigi D'Antonio¹, Gabriele Madonna¹, Domenico Mallardo¹, Cristiano Fieni¹, Marta Greco¹, Daniela Patrizia Foti¹, Emma Di Carlo¹, Paolo Antonio Ascierto¹, Hergen Spits², Ennio Carbone^{1,3} (*Italy, ²The Netherlands, ³Sweden*)

- P10.04** Deciphering the role of NK cells/ILC1 in liver metastasis from colorectal cancer
Eleonora RUSSO, Luana Tomaipitnca, 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 ZUCCOLOTTI, 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 CAPITANI¹, Anna Onnis¹, Francesca Finetti¹, Chiara Cassioli¹, Alessandro Plebani¹, Jlenia Brunetti¹, Arianna Troilo¹, Sofia D'Elíos¹, Manuela Baronio¹, Luisa Gazzarelli¹, Daniel Billadeau², Mario Milco D'Elíos¹, Vassilios Lougaris¹, Cosima Baldari¹ (¹Italy, ²USA)
- 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 Giancotta, 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 Capecchi, 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

- P12.01** Identification of a Kupffer cell subset capable of reverting the T cell dysfunction induced by hepatocellular priming
Giorgia DE SIMONE¹, Francesco Andreatà¹, Valeria Fumagalli¹, Camille Bleriot², Xenia Ficht¹, Florent Ginhoux², Matteo Iannacone¹ (*¹Italy, ²France*)
- 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 Iannacone, 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 (*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 ZEVOLINI¹, Francesca Finetti¹, Chiara Cassioli¹, Valentina Cianfanelli², Anna Onnis¹, Monica Gesualdo¹, Jlenia Brunetti¹, Francesco Cecconi², Cosima Baldari¹ (*¹Italy, ²Denmark*)
- P12.06** CD8+ T stem cell memory cells in tuberculosis
Mojtaba SHEKARKAR AZGOMI¹, Giusto D. Badam¹, Marco P. La Manna¹, Lucy C. Sullivan², Andrew G. Brooks², Francesco Dieli¹, Nadia Caccamo¹ (*¹Italy, ²Australia*)

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, Iliara 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 α 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 Patrussi (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)
- P13.11** Aberrant WNT/ β -catenin signaling as a therapeutic target in hepatocellular carcinoma
Rossella FASANO¹, Patrizia Leone¹, Antonio Giovanni Solimando¹, Eleonora Malerba¹, Antonella Argentiero¹, Markus Krebs², Nicola Silvestris¹, Angelo Vacca¹, Vito Racanelli¹ (¹Italy, ²Germany)
- 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 GAROFALO¹, Marco Naddeo¹, Costanza Maria Cristiani¹, Carmela Passacatini¹, Madhurendra Singh², Galina Selivanova², Daniela Pappalardo¹, Ennio Carbone^{1,2} (¹Italy, ²Sweden)
- P13.14** Dual targeting of cancer and suppressive myeloid cells by tumor-redirectioned iNKT cells and antigen-carrying microparticles
Gloria DELFANTI¹, Filippo Cortesi¹, Claudio Garavaglia¹, Michela Consonni¹, Haifa Shen³, Giulia Casorati¹, Paolo Dellabona¹ (¹Italy, ²Germany, ³USA)

- 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 Ascierio, Gianni Marone, Maria Rosaria Galdiero (Italy)
- P13.17** Donor-unrestricted targeting of CD1c-expressing leukemia by T cells engineered with lipid-specific TCR
Michela CONSONNI¹, Claudio Garavaglia¹, Andrea Grilli¹, Claudia de Lalla¹, Alessandra Mancino¹, Lucia Mori², Gennaro De Libero², Daniela Montagna¹, Monica Casucci¹, Marta Serafini¹, Chiara Bonini¹, Daniel Häussinger², Fabio Ciceri¹, Massimo Bernardi¹, Sara Mastaglio¹, Paolo Dellabona¹, Giulia Casorati¹ (¹Italy, ²Switzerland)
- 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 Ostuni⁴, 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 Quagliano (*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 BARUTELLO¹, Federica Riccardo¹, Claudia Voena¹, Giulia Peppino¹, Elisabetta Bolli¹, Elena Quagliano¹, Roberto Chiarle², Federica Cavallo¹ (*Italy, ²USA*)
- P13.27** A chimeric human/Dog DNA vaccine against the chondroitin sulfate proteoglycan 4 reveals potential therapeutic effects for the treatment of melanoma
Federica RICCARDO¹, Lidia Tarone¹, Davide Giacobino¹, Mariateresa Camerino¹, Giuseppina Barutello¹, Maddalena Arigoni¹, Elisabetta Bolli¹, Selina Iussich¹, Sergio Occhipinti¹, Soldano Ferrone², Paolo Buracco¹, Federica Cavallo¹ (*Italy, ²USA*)
- P13.28** CSPG4 immune-targeting as novel strategy for the treatment of osteosarcoma
Lidia TARONE¹, Davide Giacobino¹, Selina Iussich¹, Soldano Ferrone², Paolo Buracco¹, Federica Cavallo¹, Federica Riccardo¹ (*Italy, ²USA*)
- 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 TOSI¹, Gaia Griguolo¹, Valentina Rossi¹, Valentina Guarneri¹, Maria Vittoria Dieci¹, Susan Fineberg², Luc Bauchet³, Valerie Rigau², William Jacot³, Amelie Dartix³, Pierfranco Conte¹, Antonio Rosato¹ (*Italy, ²USA, ³France*)

- 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*)
- P13.35** Neutrophils controlling the intestinal microbiota provide protection against colitis and colitis-associated colorectal cancer
Silvia CARNEVALE¹, Andrea Ponzetta², Roberta Carriero¹, Anna Rigatelli¹, Domenico Supino¹, Simone Puccio¹, Andrea Mariani¹, Fabio Pasqualini¹, Camilla Recordati¹, Claudio Tripodi¹, Somayehsadat Ghasemi¹, Paolo Kunderfranco¹, Luna Cordeiro Minute¹, Elena Magrini¹, Cecilia Garlanda¹, Alberto Mantovani¹, Sebastien Jaillon (¹Italy, ²Sweden)
- 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*)