



Società Italiana di Immunologia  
Immunologia Clinica e Allergologia

PROGRAM

MAY 23-26, 2022

UNIVERSITY OF NAPLES FEDERICO II

S I I C A 2 0 2 2

**XIII** NATIONAL  
CONGRESS

SCIENTIFIC SECRETARIAT



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ORGANIZING SECRETARIAT



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**UNDER THE PATRONAGE OF**



*Dipartimento di Scienze Mediche Traslazionali  
Università degli Studi di Napoli Federico II*

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Maria Rosaria Galdiero

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## GENERAL INFORMATION

### CONGRESS VENUE

Azienda Ospedaliera Universitaria Federico II  
2° Policlinico

Main entrance: Via S. Pansini, 5 - 80131 Naples (Italy)

**Please note that use of FFP2 mask is mandatory inside the Congress Venue.**

### REGISTRATION DESK

The Organizing Secretariat desk is located in the Building 21, closed to the Main Room, and will be open according to the following schedule:

Monday, May 23	10.00-19.30
Tuesday, May 24	08.00-19.30
Wednesday, May 25	08.00-20.30
Thursday, May 26	08.00-13.30

### SIICA SECRETARIAT

The SIICA Secretariat desk is located in the Building 21 next to the Registration Desk.

### BADGE

Each participant will receive a name badge upon check-in at the registration desk. The badge is the official Congress pass and must be worn at all times.

### CERTIFICATE OF ATTENDANCE

The certificate of attendance will be sent, by e-mail, to the participants after the Congress.

### COFFEE BREAKS

Coffee breaks are offered to all regularly registered participants in the Exhibition Area - Building 20, as indicated in the program.

### LUNCH BOXES

Lunch boxes are offered to all regularly registered participants in the Exhibition Area - Building 20, May 24 and 25.

## GENERAL INFORMATION

### REGISTRATION FEES

Registration fees are in Euro (VAT 22% included).

Senior Member SIICA*	€ 200.00
Junior Member SIICA Under 35**	€ 100.00
Non Member SIICA	€ 320.00
Non Member SIICA Under 35***	€ 160.00

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

\*\* The reduced fee will be applied only to members with regular membership payments. Copy of valid document (ID or passport) to certify the date of birth is mandatory to be delivered at the registration desk.

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Registration is mandatory for participation in the scientific sessions and for oral or poster presenters.

Congress registration fee includes:

- Access to all scientific sessions
- Access to the Exhibition Area
- Congress kit and name badge
- Certificate of attendance
- Abstracts (digital)
- Welcome Cocktail on Monday, May 23
- Coffee breaks as indicated in the program
- Lunch boxes May 24 and May 25

### LANGUAGE

English is the official language of the Congress. No simultaneous translation is foreseen during the scientific sessions.

### WiFi

WiFi is available in the Congress Venue.

Username: WiFi\_SIICA

Password: F&DII4SiiC@

In the Congress Venue is available the network EDUROAM.

### EXHIBITION AREA

The Exhibition Area is located in the Building 20 and will be open according to the scientific sessions.

## **SOCIAL EVENTS**

### **WELCOME COCKTAIL**

The welcome cocktail is scheduled on Monday, May 23 at 19.30 in the Exhibition Area, building 20.

Participation is included in the Congress registration fee.

### **THE JUNIOR FACULTY PIZZA DINNER**

The Junior Faculty Pizza Dinner is scheduled on Monday, May 23 at 20.30 at the "Regina Margherita" pizzeria restaurant located in via Partenope, 19 (Naples).

Fixed menu at a total cost of 25 euros including VAT (aperitif, appetizer, pizza, dessert, drinks) to be paid locally.

Please contact the Junior Faculty at [siicajfpizzadinner2022@gmail.com](mailto:siicajfpizzadinner2022@gmail.com) for checking availability or for details.

### **SOCIAL DINNER**

The Social Dinner is scheduled on Wednesday, May 25 at 21.00 at the "Rosolino Restaurant", located in Via Nazario Sauro, 4, Naples.

The cost is not included in the registration fees. Tickets can be purchased at the registration desk, upon availability.

The prices are € 60,00 for Non Member SIICA, € 45,00 for Senior SIICA Member and € 30,00 for Junior SIICA Member.

Pre-booked tickets are included in the personal registration kit.

The dress code for this evening is business informal.

## SCIENTIFIC INFORMATION

### POSTER SESSIONS

Posters are displayed in the Poster Area located in the Building 20.

The Author is kindly requested to stand close to the poster during the Poster Sessions for possible questions from participants.

Guided poster walks will be organized by chairpersons of the related workshops.

The Poster Sessions are scheduled as follows:

#### **POSTER SESSION 1** (see page 34-46)

Tuesday, May 24 - from 13.30 to 14.30

#### **POSTER SESSION 2** (see page 47-65)

Wednesday, May 25 - from 13.30 to 14.30

### ABSTRACT BOOK

The abstracts accepted as Oral Presentations and Posters are published on the congress website only ([www.siica2022.it](http://www.siica2022.it)).

### MEET THE JUNIOR FACULTY

Junior Faculty members are happy to introduce themselves, give an overview on activities and upcoming events promoted by the Junior Faculty, and to launch the first **"SIICA Mentoring Program for Postdocs"**. Come to meet JF on Tuesday, May 24 at 18.30 in the Main Room.

### GET-TOGETHER WITH JUNIOR FACULTY CAREER DEVELOPMENT

The session "GET-TOGETHER WITH JF CAREER DEVELOPMENT" is scheduled on Wednesday, May 25 at 13.10 in Parallel Room – Building 19.

The Career Development Committee will be available to meet all delegates that are interested in their activities. A particular focus will be dedicated to discuss and better detail the SIICA Mentoring Program, that is going to be launched during the "Meet the JF".

### SIICA GENERAL ASSEMBLY

SIICA General Assembly is scheduled on Wednesday, 25 May at 18.20 in the Main Room, Building 21.

Only SIICA Members with regular membership payments can participate in the General Assembly.

Please check your membership payment and pick up the coupon to enter in the Assembly at the SIICA Secretariat desk.



## SCIENTIFIC INFORMATION

### SIICA 2022 AWARDS

Three awards will be assigned based on the votes of the congress participants:

- 1) the **SIICA Best Oral Presentation Award**, open to all oral presentation selected among the submitted abstracts ("WS" in the program);
- 2) the **SIICA Best Poster Award**, open to all posters presented in poster session 1 and 2 ("P" in the program);
- 2) the **EMBO Prize**, open to communications by former participants to the School of Immunology. These contributions will be clearly identified by the EMBO logo.

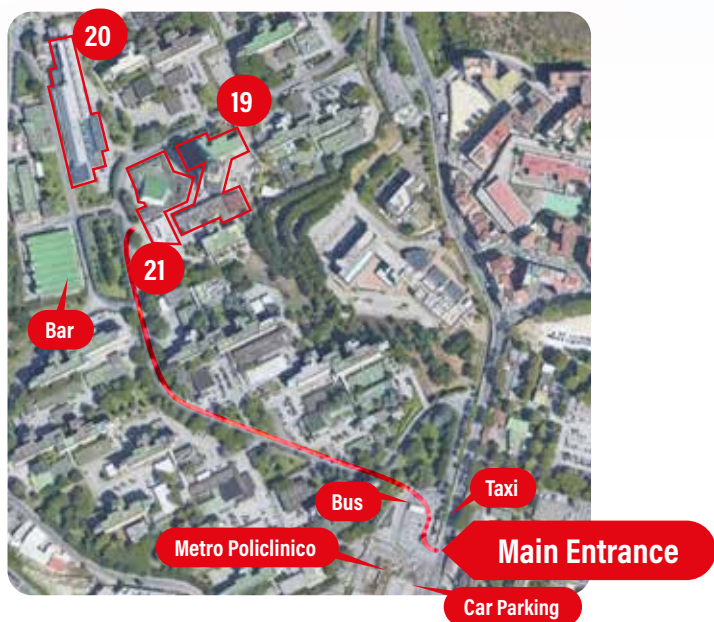
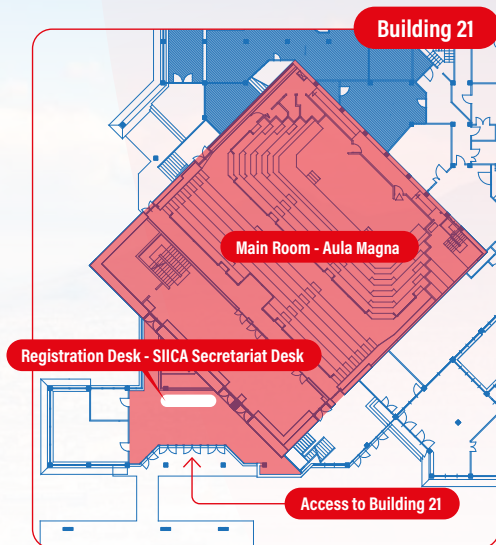
All Congress registered participants will be allowed to vote by using an online form, which will be shared through the below QR code. Every participant will be allowed to send up to 3 preferences for each Award, and to submit the form only once. Sign-in with a google account is required to vote, but all the preferences will be recorded anonymously.

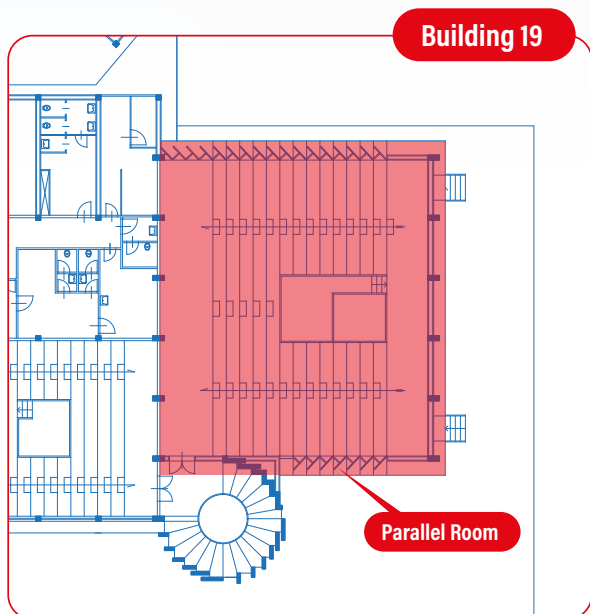
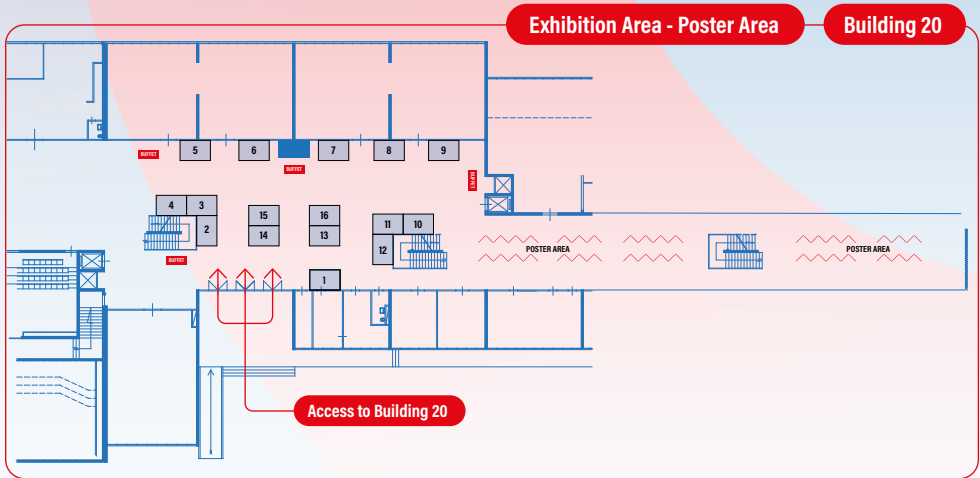


In addition, SIICA will also award two "**Ricerca**" prizes to young SIICA members returning after maternity leave and 10 **Travel Grants**. The recipient of these awards have been previously selected among call applicants by dedicated commissions.

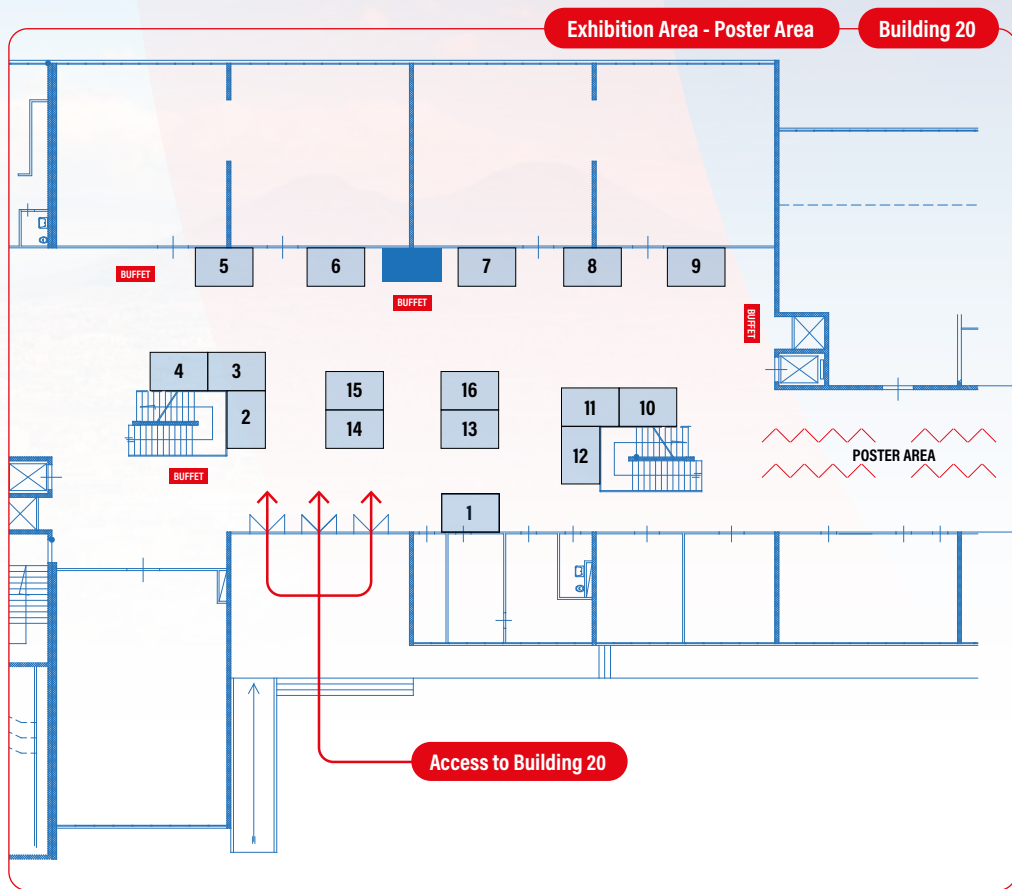
The SIICA 2022 Awards Ceremony will take place on Thursday, May 26 at 13.15 in the Main Room.

## CONGRESS VENUE MAP





## EXHIBITION AREA AND POSTER AREA



Company Name	N°	Company Name	N°
BIO-TECHNE	1	EUROCLONE	9
QUANTERIX	2	BECKMAN COULTER	10
AUROGENE	3	MILTENYI BIOTEC	11
MICROTECH	4	LGC-ATCC	12
CAMPOVERDE	5	THERMO FISHER	13
MABTECH	6	CHARLES RIVER	14
BD	7	CYTOSENS	15
DASIT	8	IMMUDEX	16

**MONDAY, MAY 23**

	<b>MAIN ROOM</b>	<b>PARALLEL ROOM</b>
14.30-16.10	PLENARY SYMPOSIUM 1 Breaking news in adaptive immunity	
16.10-16.30	Coffee break*	
16.30-17.30	INDUSTRY SYMPOSIUM Becton Dickinson	INDUSTRY SYMPOSIUM Dompé
17.30-18.30	OPENING CEREMONY	
18.30-19.15	KEYNOTE LECTURE 1 EFIS Lecture	
19.30-20.30	Welcome Cocktail*	

**TUESDAY, MAY 24**

	<b>MAIN ROOM</b>	<b>PARALLEL ROOM</b>
08.00-09.00	SIICA COMMISSION** Communication & Social Media	SIICA COMMISSION** Education
09.00-10.00	WORKSHOP SESSION 1 Tumor immunology I	WORKSHOP SESSION 2 T & B cells
10.00-10.20	Coffee break* - Posters on free view	
10.20-12.00	PLENARY SYMPOSIUM 2 New technologies in immunology	
12.00-13.10	ROUNDTABLE 1 PRESENTATIONS BY COMPANIES	
13.10-13.30	Lunch break - Posters on free view	
13.30-14.30	POSTER SESSION 1 (Poster Area - Building 20)	
14.30-15.30	WORKSHOP SESSION 3 Tumor immunology II	WORKSHOP SESSION 4 Signaling and metabolism in immune cells
15.30-15.50	Coffee break* - Posters on free view	
15.50-17.40	PLENARY JOINT SYMPOSIUM 3 SIICA-NIBIT Joint Symposium The immune microenvironment in tumors	*Foreseen in the Exhibition Area in the Building 20
17.45-18.30	KEYNOTE LECTURE 2 Targeting the microbiome for cancer immunotherapy	** Reserved to Committee Members
18.30-19.15	MEET THE JUNIOR FACULTY	

## WEDNESDAY, MAY 25

	MAIN ROOM	PARALLEL ROOM
<b>08.00-09.00</b>	SIICA COMMISSION** Equality	SIICA COMMISSION** SIICA Regulation
<b>09.00-10.00</b>	WORKSHOP SESSION 5 Immunomediated diseases and immunotherapy	WORKSHOP SESSION 6 Innate lymphoid cells
<b>10.00-10.20</b>	Coffee break* - Posters on free view	
<b>10.20-12.10</b>	PLENARY JOINT SYMPOSIUM 4 SIICA-SIAAIC Joint Symposium Rare immunomediated diseases	
<b>12.10-12.40</b>	ROUNDTABLE 2 PRESENTATIONS BY COMPANIES	
<b>12.40-13.10</b>	INDUSTRY SYMPOSIUM Moderna	INDUSTRY SYMPOSIUM Cytex
<b>13.10-13.30</b>	Lunch break - Posters on free view	Get-together with JF Career Development (Q&A Mentoring Program)
<b>13.30-14.30</b>	POSTER SESSION 2 (Poster Area - Building 20)	
<b>14.30-15.30</b>	WORKSHOP SESSION 7 Immune response to Sars-CoV2 and COVID-19	WORKSHOP SESSION 8 Myeloid cells
<b>15.30-15.50</b>	Coffee break* - Posters on free view	
<b>15.50-17.30</b>	PLENARY SYMPOSIUM 5 Breaking news in innate immunity	
<b>17.30-18.15</b>	KEYNOTE LECTURE 3 Genetic engineering of hematopoiesis to treat inherited diseases and cancer	
<b>18.20-20.00</b>	SIICA GENERAL ASSEMBLY	

**THURSDAY, MAY 26**

**MAIN ROOM**

**PARALLEL ROOM**

<b>08.00-09.00</b>	SIICA GROUP OF INTEREST Vaccines	SIICA COMMISSION** External Relations
<b>09.00-10.40</b>	PLENARY SYMPOSIUM 6 Immune response in COVID-19	
<b>10.40-11.00</b>	Coffee break* - Posters on free view	
<b>11.00-12.20</b>	SYMPOSIUM 7 The vaccine challenge for immunology and public health	SYMPOSIUM 8 Immuno diseases: from asthma to angioedema
<b>12.30-13.15</b>	KEYNOTE LECTURE 4 Interferons: friends or foes in COVID-19?	
<b>13.15-13.30</b>	SIICA 2022 AWARDS Annual Meeting Best Communication Awards  "Ricerca" Award EMBO Prize Travel Grants	
<b>13.30</b>	CLOSING REMARKS	

Registrations open at 10.00

**MAIN ROOM**

**14.30**  
**16.10**

**PLENARY SYMPOSIUM 1**  
**BREAKING NEWS IN ADAPTIVE IMMUNITY**

Chairpersons: **Rita Carsetti** (*Italy*), **Silvia Tonon** (*Italy*)

**14.30**  
**PS1.1**

Microbiota-derived metabolite in the amelioration of arthritis: novel role of serotonin metabolites in regulatory B cell differentiation  
**Claudia Mauri** (*United Kingdom*)

**14.55**  
**PS1.2**

A critical re-appraisal of blood for quantitative insights into ongoing T cell responses  
**Francesca Di Rosa** (*Italy*)

**15.20**  
**PS1.3**

Eomes+Tr1-like cells: basic biology and role in human diseases  
**Jens Geginat** (*Italy*)

**15.45**  
**PS1.4**

Epigenetic signature at Foxp3 distal enhancer and regulatory T cell generation in Kabuki syndrome  
**Veronica De Rosa, Alessandra Colamatteo, Clorinda Fusco, Anne Lise Ferrara, Antonietta Liotti, Giuseppe Merla, Gioacchino Scarano, Matteo Della Monica, Carmelo Piscopo, Daniela Melis, Giuseppe Spadaro, Antonio Pezone** (*Italy*)

**15.55**  
**PS1.5**

A self-sustaining layer of early life origin B cells presides over adult gut immunity  
**Stefano Vergani, Konjit Getachew Muleta, Clément da Silva, Alexander Doyle, Trine Ahn Kristiansen, Niklas Krausse, Giorgia Montano, Knut Kotarsky, Joy Nakawesi, Hugo Åkestrand, Stijn Vanhee, Sneha Lata Gupta, David Bryder, William Winstom Agace, Katharina Lahl, Joan Yuan** (*Sweden*)

**16.10**  
**16.30**

Coffee break  
(Exhibition Area - Building 20)



**16.30**  
**17.30****INDUSTRY SYMPOSIUM BECTON DICKINSON****MAIN ROOM**Chairperson: **Domenico Mavilio** (*Italy*)

The new frontiers of molecular cytometry. Focus on autoimmunity

**IS1.1** **Serena Di Cecilia** (*Italy*), **Davide Raineri** (*Italy*)

Multimodal single-cell profiling of intrahepatic cholangiocarcinoma defines hyperactivated Tregs as a potential therapeutic target

**IS1.2** **Giorgia Alvisi, Alberto Termanini, Cristiana Soldani, Federica Portale, Roberta Carriero, Karolina Pilipov, Paolo Kunderfranco, Diletta Dimitri, Ana LLeo, Enrico Lugli** (*Italy*)**16.30**  
**17.30****INDUSTRY SYMPOSIUM DOMPÉ****PARALLEL ROOM**Chairpersons: **Marco A. Cassatella** (*Italy*), **Massimo Locati** (*Italy*)

Targeting neutrophil extracellular traps: new perspectives for the treatment of immune diseases

**IS2.1** **Norma Maugeri** (*Italy*)**IS2.2** NETosis dysregulation in adenosine deaminase 2 deficiency**Sara Signa, Genny Del Zotto, Martina Bartolucci, Arinna Bertoni, Andrea Petretto, Roberta Bertelli, Maurizio Bruschi, Anna Corcione, Silvia della Bella, Marco Gattorno, Francesca Schena** (*Italy*)**IS2.3** Neutrophils and neutrophil extracellular traps (NETs) in human thyroid cancer  
**Luca Modestino, Leonardo Cristinziano, Stefania Loffredo, Anne Lise Ferrara, Silvia Martina Ferrari, Gianni Marone, Alessandro Antonelli, Maria Rosaria Galdiero** (*Italy*)**IS2.4** Dissecting the role of IL-8/CXCR1-2 axis in neutrophil activation and death  
**Francesca Rocchio, Anna Ruocco, Martina Sara Miscione, Andrea Aramini, Marcello Allegretti, Pier Giorgio Amendola** (*Italy*)**17.30**  
**18.30****OPENING CEREMONY****MAIN ROOM****18.30**  
**19.15****KEYNOTE LECTURE 1 - EFIS LECTURE****REGULATORY T CELL THERAPY: PROMISES AND CHALLENGES**Chairpersons: **Marco A. Cassatella** (*Italy*), **Stefania Loffredo** (*Italy*)**MAIN ROOM****KL1** Speaker: **Maria Grazia Roncarolo** (*USA*)**19.30**  
**20.30****WELCOME COCKTAIL***(Exhibition Area - Building 20)*

**MAIN ROOM**

- 08.00** SIICA COMMISSION: "COMMUNICATION & SOCIAL MEDIA"  
**09.00** SIICA Committee Meeting (*reserved to Committee Members*)

**PARALLEL ROOM**

- 08.00** SIICA COMMISSION: "EDUCATION"  
**09.00** SIICA Committee Meeting (*reserved to Committee Members*)

**MAIN ROOM**

- 09.00** WORKSHOP SESSION 1  
**10.00** TUMOR IMMUNOLOGY I  
Chairpersons: **Mattia Laffranchi** (*Italy*), **Eleonora Timperi** (*France*)

- 09.00** Targeting of aryl hydrocarbon receptor in type 1 conventional dendritic  
**WS1.1** cells fosters anti-tumor immunity  
**Marco Gargaro**<sup>1</sup>, **Andrea Marra**<sup>1</sup>, **Giulia Scalisi**<sup>1</sup>, **Valentina Tini**<sup>1</sup>, **Martina Molgora**<sup>2</sup>, **Doriana Ricciuti**<sup>1</sup>, **Giulia Mencarelli**<sup>1</sup>, **Giorgia Manni**<sup>1</sup>, **Marco Colonna**<sup>2</sup>, **Kenneth M. Murphy**<sup>2</sup>, **Francesca Fallarino**<sup>1</sup> (*Italy*, <sup>2</sup>*USA*)

- 09.10** Stabilization of Interferon  $\alpha\beta$ -receptor subunit 1 (IFNAR1) to overcome  
**WS1.2** Type I interferon deregulation in the liver tumor microenvironment  
**Andrea Monestiroli**, **Paola Zordan**, **Ester Daoud**, **Lorena Maria Ferreira**, **Blanca Alvarez Moya**, **Valentina Buttiglione**, **Benedetta Mendicino**, **Claudio Fagioli**, **Blanche Ekalle Soppo**, **Luca G. Guidotti**, **Giovanni Sitia** (*Italy*)

- 09.20** Polymorphonuclear myeloid-derived suppressor cells impair the anti-  
**WS1.3** tumor efficacy of GD2.CAR T-cells in patients with neuroblastoma  
**Nicola Tumino**<sup>1</sup>, **Gerrit Weber**<sup>1,2</sup>, **Francesca Besi**<sup>1</sup>, **Francesca Del Bufalo**<sup>1</sup>, **Valentina Bertaina**<sup>1</sup>, **Paola Paci**<sup>1</sup>, **Linda Quatrini**<sup>1</sup>, **Franco Locatelli**<sup>1</sup>, **Lorenzo Moretta**<sup>1</sup>, **Ignazio Caruana**<sup>2</sup>, **Paola Vacca**<sup>1</sup> (*Italy*, <sup>2</sup>*Germany*)

- 09.30** Eosinophils acquire immune checkpoint molecules through trogocytosis:  
**WS1.4** implications in cancer immunity  
**Sara Andreone**, **Francesca Spadaro**, **Iole Macchia**, **Mario Falchi**, **Antonella Tinari**, **Silvia Piconese**, **Claudia Afferni**, **Fabrizio Mattei**, **Giovanna Schiavoni** (*Italy*)

- 09.40** Neutrophils controlling the intestinal microbiota provide protection  
**WS1.5** against colitis and colitis-associated colorectal cancer  
**Silvia Carnevale**<sup>1</sup>, **Andrea Ponzetta**<sup>2</sup>, **Anna Rigatelli**<sup>1</sup>, **Roberta Carrero**<sup>1</sup>, **Domenico Supino**<sup>1</sup>, **Simone Puccio**<sup>1</sup>, **Fabio Pasqualini**<sup>1</sup>, **Andrea Mariancini**<sup>1</sup>, **Francesco Scavello**<sup>1</sup>, **Camilla Recordati**<sup>1</sup>, **Claudio Tripodo**<sup>1</sup>, **Giovanna Grieco**<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*)

- 09.50** CD36 promotes cellular uptake of fatty acids supporting tumor progression  
**WS1.6** in multiple myeloma  
**Antonio Giovanni Solimando**, **Eleonora Malerba**, **Patrizia Leone**, **Carolina Terragna**, **Michele Cavo**, **Vito Racanelli** (*Italy*)

**PARALLEL ROOM****09.00 WORKSHOP SESSION 2****10.00 T & B CELLS**Chairpersons: **Anna Kabanova** (*Italy*), **Silvia Tonon** (*Italy*)**09.00** Identification of immune checkpoint-expressing T cells with a different  
**WS2.1** effector function in juvenile idiopathic arthritis**Anna Vanni, Alessio Mazzoni, Laura Maggi, Manuela Capone, Roberto Semeraro, Giulia Lamacchia, Lorenzo Salvati, Alberto Carnasciali, Parham Farahvachi, Alberto Magi, Rolando Cimaz, Lorenzo Cosmi, Francesco Liotta, Francesco Annunziato** (*Italy*)**09.10** Pathogenic immune profile of CD8+ T cells promotes memory decline  
**WS2.2** and neuropathological hallmarks of Alzheimer's disease**Eleonora Terrabuio, Enrica Caterina Pietronigro, Elena Zenaro, Bruno Santos-Lima, Vittorina Della Bianca, Aferdita Suli, Alessandro Bani, Gabriele Angelini, Barbara Rossi, Alberto Poli, Gabriela Constantin** (*Italy*)**09.20** Wnt/ $\beta$ -catenin signaling in T cells promotes a progressive neuroinflammatory  
**WS2.3** disease in mice via induction of Integrin  $\alpha 4\beta 1$  and dependent on the dosage of AAA+ ATPase Pontin**Marta Febo, Daniele Sorcini, Musetta Paglialunga, Valeria Iannello, Stefano Bruscoli, Oxana Bereshchenko** (*Italy*)**09.30** BNT162b vaccine-induced B cell memory and antibody responses**WS2.4** **Marta Pirronello, Mario Picozza, Alice Verdiani, Silvia D'Orso, Lorenzo De Marco, Giovanna Borsellino, Luca Battistini** (*Italy*)**09.40** Restoration of follicular T cells in patients with Wiskott-Aldrich syndrome  
**WS2.5** after gene therapy**Matteo Filippini, Biagio Di Lorenzo, Cristiana Trimarchi, Tatiana Jofra, Federico Frascetta, Alessandro Aiuti, Georgia Fousteri, Maria Pia Cicalese** (*Italy*)**09.50** A microbially produced AhR ligand promotes a Tph1-driven tolerogenic  
**WS2.6** program in multiple sclerosis**Teresa Zelante<sup>1</sup>, Giuseppe Paolicelli<sup>1</sup>, Francesca Fallarino<sup>1</sup>, Marco Gargaro<sup>1</sup>, Marco De Zuani<sup>2</sup>, Jan Fric<sup>2</sup>, Petra Laznickova<sup>2</sup>, Antonio Macchiarulo<sup>1</sup>, Daniela Dolciami<sup>1</sup>, Giuseppe Pieraccini<sup>1</sup>, Lorenzo Gaetani<sup>1</sup>, Giulia Scalisi<sup>1</sup>, Carlo Pucillo<sup>1</sup>, Antonella De Luca<sup>1</sup>, Emilia Nunzi<sup>1</sup>, Roberta Spaccapelo<sup>1</sup>, Marilena Pariano<sup>1</sup>, Monica Borghi<sup>1</sup>, Francesca Boscaro<sup>1</sup>, Riccardo Romoli<sup>1</sup>, Andrea Mancini<sup>1</sup>, Lucia Gentili<sup>1</sup>, Giorgia Renga<sup>1</sup>, Claudio Costantini<sup>1</sup>, Matteo Puccetti<sup>1</sup>, Stefano Giovagnoli<sup>1</sup>, Maurizio Ricci<sup>1</sup>, Martina Antonini<sup>1</sup>, Paolo Calabresi<sup>1</sup>, Paolo Puccetti<sup>1</sup>, Massimiliano Di Filippo<sup>1</sup>, Luigina Romani<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Czech Republic*)

**10.00** Coffee break - Posters on free view  
**10.20** (Exhibition Area - Building 20)

**MAIN ROOM**

**10.20** **PLENARY SYMPOSIUM 2**  
**12.00** **NEW TECHNOLOGIES IN IMMUNOLOGY**  
Chairpersons: **Alessio Grimaldi** (Italy), **Domenico Mavilio** (Italy)

**10.20** Functional adaptation of CD4+ T cells in response to short dietary changes  
**PS2.1** **Nicola Gagliani** (Sweden / Germany)

**10.45** Single cell revolution: deep multiomic analysis at single cell level to investigate  
**PS2.2** CD8+ T cell fate commitment  
**Luigia Pace** (Italy)

**11.10** Functional biology of hepatic CD8+ T cells  
**PS2.3** **Matteo Iannacone** (Italy)

**11.35** Peptide-based single clones sorting for gene expression profile analysis  
**PS2.4** in chronic lymphocytic leukemia  
**Domenico Maisano, Enrico Iaccino, Selena Mimmi** (Italy)

**11.45** Time-resolved tracking of cellular and humoral B cell responses to SARS-  
**PS2.5** CoV2 at single cell resolution  
**Daniel Garzon, Federica Mainoldi, Cristina Paissoni, Camillo Almici, Mariagrazia Totaro, Giuseppe Ossolengo, Roberta Rovito, Cecilia Ranise, Rosaria Scaduto, Sara Roversi, Raffaele Badolato, Giulia Marchetti, Carlo Camilloni, Stefano Casola** (Italy)

**MAIN ROOM**

**12.00**  
**13.10**

**ROUNDTABLE 1**  
**PRESENTATIONS BY COMPANIES**

Chairpersons: **Daniela Bosisio** (*Italy*), **Silvia Piconese** (*Italy*)

**RT1.1**

**BECKMAN COULTER LIFE SCIENCES**  
 Latest proposal in immunology  
**Leonardo Beretta** (*Italy*)



**RT1.2**

**BD**  
 Unlock your experimental power  
**Federica Capolunghi** (*Italy*)



**RT1.3**

**DASIT**  
 ALEX2, the multiplex allergy test with the largest panel of allergen molecules and integrated CCD-blocker  
**Christian Lupinek** (*Austria*)



**RT1.4**

**CYTOSENS**  
 7 lasers & 186 detectors: ID7000™ spectral cell analyzer, best in-class high-parameter flow cytometry  
**Steffen Böhner** (*Germany*)



**RT1.5**

**EUROCLONE**  
 How cell signaling technology can accelerate oncology research?  
**Francesco Pinto** (*Italy*)



**RT1.6**

**QUANTERIX**  
 Measurement of circulating low abundance cytokines and interferon with Simoa ultra-sensitive technologies  
**Danilo La Terra** (*Italy*)



**RT1.7**

**CHARLES RIVER**  
 Digital tour for mouse model creation and off-site colony management  
**Roberta Paolinelli** (*Italy*)



**13.10**  
**13.30**

*Break - Posters on free view*

**Tuesday, May 24**

**POSTER AREA**

**13.30** **POSTER SESSION 1**  
**14.30** (see pages from 34 to 46)

**MAIN ROOM**

**14.30** **WORKSHOP SESSION 3**  
**15.30** **TUMOR IMMUNOLOGY II**  
Chairpersons: **Alessio Grimaldi** (*Italy*), **Irene Mattiola** (*Germany*)

**14.30** Interleukin-1 receptor type 2 (IL-1R2)-deficiency is associated with resistance  
**WS3.1** against murine fibrosarcoma  
**Andrea Mariancini<sup>1</sup>, Domenico Supino<sup>1</sup>, Anna Rigatelli<sup>1</sup>, Francesco Scavello<sup>1</sup>, Elena Magrini<sup>1</sup>, Silvia Carnevale<sup>1</sup>, Luna Minute<sup>1</sup>, Gabryella Ley Gandra<sup>1</sup>, Sebastien Jaillon<sup>1</sup>, Alberto Mantovani<sup>1,2</sup>, Cecilia Garlanda<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>United Kingdom*)

**14.40** TGF- $\beta$  inhibits the function of progenitor-exhausted CD8<sup>+</sup> T cells in response  
**WS3.2** to PD-1 blockade  
**Enrico Lugli, Giovanni Galletti, Marco De Luca** (*Italy*)

**14.50** Determinants of CD8<sup>+</sup> T cell behaviour within hepatocellular carcinoma  
**WS3.3** **Federica Moalli, Bianca Partini, Gioia Ambrosi, Xenia Ficht, Davide Marotta, Alessio Cantore, Luigi Naldini, Luca G. Giudotti, Matteo Iannaccone** (*Italy*)

**15.00** Bone marrow TR3-56 lymphocytes inversely correlate with activation  
**WS3.4** and expansion of resident cytotoxic T cells in the first stages of myelodysplastic syndromes  
**Valentina Rubino, Stefania Leone, Anna Teresa Palatucci, Angela Giovazzino, Flavia Carriero, Giuseppe Cerciello, Fabrizio Pane, Giuseppe Terrazzano, Giuseppina Ruggiero** (*Italy*)

**15.10** Inhibitory receptor PIRB has a key role in modulating the anti-tumor immune  
**WS3.5** response in pancreatic cancer  
**Alessandro Scagliotti, Cecilia Roux, Claudia Curcio, Gianluca Mucciolo, Silvia Brugiapaglia, Francesco Novelli, Paola Cappello** (*Italy*)

**15.20** Immune determinants of response to neoadjuvant chemo-radiation in esophageal  
**WS3.6** adenocarcinoma  
**Giuseppina Arbore, Luca Albarello, Gabriele Bucci, Marco Punta, Vito Bilello, Andrea Cossu, Giovanni Tonon, Riccardo Rosati, Giulia Casorati, Paolo Dellabona** (*Italy*)

**PARALLEL ROOM****14.30 WORKSHOP SESSION 4****15.30 SIGNALING AND METABOLISM IN IMMUNE CELLS**Chairpersons: **Gaia Codolo** (*Italy*), **Anna Kabanova** (*Italy*)

**14.30** Type 1 conventional dendritic cell-selective deletion of IDO1 exacerbate  
**WS4.1** central nervous system inflammation in an experimental model of multiple sclerosis

**Giulia Scalisi<sup>1</sup>**, **Marco Gargaro<sup>1</sup>**, **Giorgia Manni<sup>1</sup>**, **Giulia Mencarelli<sup>1</sup>**, **Doriana Ricciuti<sup>1</sup>**, **Benedetta Pieroni<sup>1</sup>**, **Kenneth M. Murphy<sup>2</sup>**, **Francesca Fallarino<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>USA*)

**14.40** Inositol 1,4,5-trisphosphate 3-kinase B promotes Ca<sup>2+</sup> mobilization and  
**WS4.2** the inflammatory activity of dendritic cells

**Laura Marongiu<sup>1</sup>**, **Francesca Mingozzi<sup>1</sup>**, **Takashi Morii<sup>2</sup>**, **Stéphane Schurmans<sup>3</sup>**, **Tiziano Catelani<sup>1</sup>**, **Stephen Shears<sup>4</sup>**, **Davide Prosperi<sup>1</sup>**, **Ivan Zanoni<sup>4</sup>**, **Francesca Granucci<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Japan, <sup>3</sup>France, <sup>4</sup>USA*)

**14.50** Mitochondrial dynamics drives macrophage metabolism and functional  
**WS4.3** commitment

**Ricardo Sanchez-Rodriguez**, **Caterina Tezze**, **Roberta Angioni**, **Francisca C. Venegas**, **Chiara Cioccarelli**, **Fabio Munari**, **Nicole Bertoldi**, **Marcella Canton**, **Maria Andrea Desbats**, **Leonardo Salvati**, **Rosanna Gissi**, **Alessandra Castegna**, **Maria Eugenia Soriano**, **Marco Sandri**, **Luca Scorrano**, **Antonella Viola**, **Barbara Molon** (*Italy*)

**15.00** Release of cGAMP by doxorubicin-treated multiple myeloma cells and its  
**WS4.4** regulation through ectoenzymatic degradation

**Lorenzo Cuollo**, **Annamaria Sandomenico**, **Domenico Raimondo**, **Cinzia Fionda**, **Emanuela Iaccarino**, **Andrea Kosta**, **Valentina Tassinari**, **Samuele Di Cristofano**, **Alessandra Zingoni**, **Marco Cippitelli**, **Maria Teresa Petrucci**, **Ruvo Menotti**, **Angela Santoni**, **Alessandra Soriani** (*Italy*)

**15.10** Linoleic acid regulates CD8+ T cell metabolic fitness and anti-tumor immunity  
**WS4.5**

**Carina Beatriz Nava Lauson<sup>1</sup>**, **Federica Cinte<sup>1</sup>**, **Markus Machwirth<sup>2</sup>**, **Alessia Loffreda<sup>1</sup>**, **Paola Corsetto<sup>1</sup>**, **Timo Peter<sup>3</sup>**, **Andrea Raimondi<sup>1</sup>**, **Paola Paci<sup>1</sup>**, **Johannes Huppa<sup>3</sup>**, **Andreas Beilhack<sup>2</sup>**, **Luigi Nezi<sup>1</sup>**, **Ignazio Caruana<sup>2</sup>**, **Teresa Manzo<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Germany, <sup>3</sup>Austria*)

**15.20** A PGE2-IL-1 $\beta$  axis supports oncogenic inflammation in pancreatic ductal  
**WS4.6** adenocarcinoma

**Nicoletta Caronni**, **Francesco Maria Vittoria**, **Luca Mezzanzanica**, **Federica La Terza**, **Vincenzo Cuzzola**, **Simona Barresi**, **Carlo Leonardi**, **Antonio Citro**, **Stefano Crippa**, **Claudio Doglioni**, **Lorenzo Piemonti**, **Giulia Barbiera**, **Marco Genua**, **Renato Ostuni** (*Italy*)

**15.30** Coffee break - Posters on free view  
**15.50** (Exhibition Area - Building 20)

**MAIN ROOM**

**15.50** **PLENARY JOINT SYMPOSIUM 3**  
**17.40** **SIICA - NIBIT JOINT SYMPOSIUM: THE IMMUNE MICROENVIRONMENT IN TUMORS**  
Chairpersons: **Luigi Buonaguro** (*Italy*), **Silvia Piconese** (*Italy*)

**15.50** Immunoregulations by extracellular matrix: a SPARCKling example  
**PS3.1** **Mario P. Colombo** (*Italy*)

**16.15** Targeting and prognostic significance of myelopoiesis in cancer  
**PS3.2** **Antonio Sica** (*Italy*)

**16.40** The impact of combined targeted therapy and immunotherapy on the tumor microenvironment in melanoma  
**PS3.3** **Teresa Troiani** (*Italy*)

**17.05** Targeting molecules shared by tumor cells and the microenvironment: a feasible (and safe) strategy to hit breast cancer?  
**PS3.4** **Federica Cavallo** (*Italy*)

**MAIN ROOM**

**17.45** **KEYNOTE LECTURE 2**  
**18.30** **TARGETING THE MICROBIOME FOR CANCER IMMUNOTHERAPY**  
Chairpersons: **Massimo Locati** (*Italy*), **Giuseppe Sciumè** (*Italy*)

**KL2** Speaker: **Giorgio Trinchieri** (*USA*)

**MAIN ROOM**

**18.30** **MEET THE JUNIOR FACULTY**  
**19.15**



## MAIN ROOM

- 08.00** SIICA COMMISSION: "EQUALITY"  
**09.00** SIICA Committee Meeting (*reserved to Committee Members*)

## PARALLEL ROOM

- 08.00** SIICA COMMISSION: "SIICA REGULATION"  
**09.00** SIICA Committee Meeting (*reserved to Committee Members*)

## MAIN ROOM

- 09.00** WORKSHOP SESSION 5  
**10.00** IMMUNOMEDIATED DISEASES AND IMMUNOTHERAPY  
Chairpersons: **Maria Rosaria Galdiero** (*Italy*), **Manolo Sambucci** (*Italy*)

- 09.00** Integrated strategy for discovering predictive biomarkers in oligoarticular juvenile idiopathic arthritis  
**WS5.1**  
**Simone Pelassa**, **Chiara Rossi**, **Davide Cangelosi**, **Martina Bartolucci**, **Andrea Petretto**, **Francesca Antonini**, **Paola Bocca**, **Federica Penco**, **Martina Rossano**, **Francesco Baldo**, **Giovanni Filocamo**, **Chiara Trinciante**, **Alessandra Eva**, **Angelo Ravelli**, **Alessandro Consolaro**, **Federica Raggi**, **Maria Carla Bosco** (*Italy*)

- 09.10** Potential involvement of IL-40 and iL-40-producing cells in primary Sjogren's syndrome and Sjogren-associated lymphoma  
**WS5.2**  
**Leila Mohammadnezhad**, **Chiara Rizzo**, **Marianna Lo Pizzo**, **Vincenzo Luca Lentini**, **Diana Di Liberto**, **Lidia La Barbera**, **Giulia Grasso**, **Piero Ruscitti**, **Roberto Giacomelli**, **Francesco Ciccia**, **Nadia Caccamo**, **Francesco Dieli**, **Giuliana Guggino** (*Italy*)

- 09.20** Tr3-56 cells: the missing piece in the puzzle of type 1 diabetes progression  
**WS5.3**  
**Sara Bruzzaniti**<sup>1</sup>, **Maria Teresa Lepore**<sup>1</sup>, **Erica Piemonte**<sup>1</sup>, **Enza Mozzillo**<sup>1</sup>, **Antonio Porcellini**<sup>1</sup>, **Johnny Ludvigsson**<sup>2</sup>, **Adriana Franzese**<sup>1</sup>, **Giuseppe Matarese**<sup>1</sup>, **Mario Galgani**<sup>1</sup> (*<sup>1</sup>Italy, <sup>2</sup>Sweden*)

- 09.30** Tolerogenic dendritic cells engineered with a lentiviral vector encoding for IL-10 and antigen control T cell responses to pathogenic antigens  
**WS5.4**  
**Laura Passeri**, **Laura Passerini**, **Grazia Andolfi**, **Ilaria Marrocco**, **Luca Cesana**, **Fabio Russo**, **Giorgia Giacomini**, **Andrea Annoni**, **Graziano Barera**, **Paola Sgaramella**, **Marina Di Stefano**, **Chiara Ziparo**, **Giovanni Di Nardo**, **Renata Auricchio**, **Riccardo Troncone**, **Serena Vitale**, **Carmen Gianfrani**, **Silvia Gregori** (*Italy*)

- 09.40** Optimizing therapeutic outcomes of immune checkpoint blockade by a microbial tryptophan metabolite  
**WS5.5**  
**Giorgia Renga**, **Emilia Nunzi**, **Marilena Pariano**, **Matteo Puccetti**, **Marina Bellet**, **Giuseppe Pieraccini**, **Fiorella D'Onofrio**, **Ilaria Santarelli**, **Claudia Stincardini**, **Franco Aversa**, **Francesca Riuzzi**, **Cinzia Antognelli**, **Marco Gargaro**, **Oxana Bereshchenko**, **Maurizio Ricci**, **Stefano Giovagnoli**, **Luigina Romani**, **Claudio Costantini** (*Italy*)

- 09.50** Cytokine-induced killer cells retargeted with immunotools represent a promising strategy for adoptive cell therapy against HER-2 expressing breast tumors  
**WS5.6**  
**Sara Perpinello**, **Elisa Cappuzzello**, **Anna Dalla Pietà**, **Annavera Ventura**, **Pierangela Palmerini**, **Emilia Vigolo**, **Roberta Sommaggio**, **Antonio Rosato** (*Italy*)

**09.00** **WORKSHOP SESSION 6**

**10.00** **INNATE LYMPHOID CELLS**

Chairpersons: **Mattia Laffranchi** (*Italy*), **Irene Mattioli** (*Germany*)

- 09.00** Relevant role for PD-1 immune checkpoint expressed on natural killer cells derived from ovarian cancer patients PD-1, KIR and NKG2A as the main immune checkpoints on which to bet on to fight ovarian cancer  
**WS6.1** **Marco Greppi, Giovanna Tabellini, Matteo Bozzo, Valentina Obino, Patrizio Castagnola, Simona Candiani, Domenico Mavilio, Sara Rezzola, Camilla Jandus, Daniel Olive, Andrea De Censi, Lorenzo Moretta, Simona Sivori, Fabio Rampinelli, Silvia Pesce, Silvia Parolini, Emanuela Marcenaro** (*Italy*)
- 09.10** Dissecting roles for NCR+ILCs in colitis and colitis-induced colorectal cancer  
**WS6.2** **Gianluca Scarno, Julija Mazej, Mattia Laffranchi, Chiara Di Censo, Giuseppe Pietropaolo, Helena Stabile, Cinzia Fionda, Giovanna Peruzzi, Arianna Candelotti, Giovanni Bernardini, Angela Gismondi, Silvano Sozzani, Angela Santoni, Giuseppe Sciumè** (*Italy*)
- 09.20** Androgen receptor signaling affects phenotype and natural killer cell-mediated killing in melanoma cells  
**WS6.3** **Costanza Maria Cristiani<sup>1</sup>, Marzia Di Donato<sup>1</sup>, Lucia Carmela Passacatini<sup>1</sup>, Cinzia Garofalo<sup>1</sup>, Ennio Carbone<sup>1,2</sup>, Gabriella Castoria<sup>1</sup>** (*Italy*, <sup>2</sup>*Sweden*)
- 09.30** Characterization of a population of innate like T cells in mouse and human  
**WS6.4** **Anna Rigatelli<sup>1</sup>, Paolo Kunderfranco<sup>1</sup>, Silvia Carnevale<sup>1</sup>, Domenico Supino<sup>1</sup>, Simone Puccio<sup>1</sup>, Gabriele De Simone<sup>1</sup>, Roberta Carriero<sup>1</sup>, Ferdinando Carlo Maria Cananzi<sup>1</sup>, Enrico Lugli<sup>1</sup>, Javier Cibella<sup>1</sup>, Gianluca Basso<sup>1</sup>, Giuseppe Sciumè<sup>1</sup>, Andrea Mariancini<sup>1</sup>, Francesco Scavello<sup>1</sup>, Elena Magrini<sup>1</sup>, Cecilia Garlanda<sup>1</sup>, Alberto Mantovani<sup>1,2</sup>, Sebastien Jaillon<sup>1</sup>** (*Italy*, <sup>2</sup>*United Kingdom*)
- 09.40** Circulating ILC precursors expressing CD62L exhibit a type 2 signature distinctly decreased in psoriatic patients  
**WS6.5** **Claudia De Pasquale, Stefania Campana, Chiara Barberi, Giacomo Sidoti Migliore, Bruno Galletti, Claudio Guarneri, Serafinella Patrizia Cannavò, Guido Ferlazzo** (*Italy*)
- 09.50** Glucocorticoids inhibit human hematopoietic stem cell differentiation toward a common ILC precursor  
**WS6.6** **Linda Quatrini, Nicola Tumino, Francesca Besi, Cecilia Ciancaglini, Federica Galaverna, Antonio Giacomo Grasso, Pietro Merli, Franco Locatelli, Paola Vacca, Lorenzo Moretta** (*Italy*)
- 10.00** *Coffee break - Posters on free view*  
**10.20** *(Exhibition Area - Building 20)*

**MAIN ROOM**

- 10.20** **PLENARY JOINT SYMPOSIUM 4**  
**12.10** **SIICA - SIAAIC JOINT SYMPOSIUM: RARE IMMUNOMEDIATED DISEASES**  
 Chairpersons: **Francesco Liotta** (*Italy*), **Gianni Marone** (*Italy*)
- 10.20** Mastocytosis and mast cell activation syndrome  
**PS4.1** **Massimo Triggiani** (*Italy*)
- 10.45** Focus on antibody deficiency  
**PS4.2** **Giuseppe Spadaro** (*Italy*), **Ivan Gentile** (*Italy*)
- 11.10** Insight into molecular mechanisms driving neurotoxic inflammation in  
**PS4.3** Aicardi-Goutières syndrome  
**Anna Kajaste-Rudnitski** (*Italy*)
- 11.35** The kaleidoscope of the adenosine deaminase 2 deficiency  
**PS4.4** **Marco Gattorno** (*Italy*)

**MAIN ROOM**

- 12.10** **ROUNDTABLE 2**  
**12.40** **PRESENTATIONS BY COMPANIES**  
 Chairpersons: **Roberta Castriconi** (*Italy*), **Domenico Mavilio** (*Italy*)

- RT2.1** **CYTOSENS**  
 Laminar wash technology for cell based process improvements  
**Sigeeta Rajaram** (France)



- RT2.2** **EUROCLONE**  
 10x GENOMICS, biology at true resolution  
**Federico Biella** (Italy)



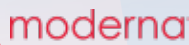
- RT2.3** **MILTENYI BIOTEC**  
 COVID-19: stimulation, analysis and safe sorting of rare antigen-  
 and virus-specific T cells  
**Marcello Stein** (Germany)



Wednesday, May 25

**MAIN ROOM**

**12.40** **INDUSTRY SYMPOSIUM MODERNA**



**13.10** Chairperson: **Rita Carsetti** (*Italy*)

mRNA science: beyond infectious disease, a paradigm shift to address unmet medical needs. mRNA platform technology and pipeline

**IS3.1** **Andrea Carfi** (*Italy*)

Understanding adaptive immune responses to Covid-19 vaccines

**IS3.2** **Alessandro Sette** (*USA*)

**PARALLEL ROOM**

**12.40** **INDUSTRY SYMPOSIUM CYTEK**



**13.10** Chairperson: **Silvia Piconese** (*Italy*)

Typifying immunological anomalies in circulating leukocytes of hospitalized COVID-19 patients by 36-color/41-reagent full-spectrum flow cytometry and multiscale post-acquisition data analysis

**IS4.1** **Mario Picozza** (*Italy*)

**13.10** *Break - Posters on free view*

**13.30**

**PARALLEL ROOM**

**13.10** **GET-TOGETHER WITH JUNIOR FACULTY**

**13.30** **CAREER DEVELOPMENT (Q&A Mentoring Program)**

**POSTER AREA**

**13.30** **POSTER SESSION 2**

**14.30** (*see pages from 47 to 65*)

**MAIN ROOM****14.30** **WORKSHOP SESSION 7****15.30** **IMMUNE RESPONSE TO SARS-COV2 AND COVID-19**Chairpersons: **Alessio Mazzoni** (*Italy*), **Manolo Sambucci** (*Italy*)**14.30** Evolution of poly-reactive memory CD8+ T cells against coronaviruses before  
**WS7.1** and after SARS-CoV-2 infection**Valentina Russo, Simona Aversano Stabile, Marco Ceravolo, Carlo De Intinis, Ines Elia, Nadia Brasu, Ivana Ferrero, Denis Baev, Celeste Cagnazzo, Vincenzo Barnaba, Ugo Ramenghi, Franca Fagioli, Luigia Pace** (*Italy*)**14.40** Recognition and inhibition of SARS-CoV-2 by humoral innate immunity pattern  
**WS7.2** recognition molecules**Matteo Stravalaci**<sup>1</sup>, **Isabel Pagani**<sup>1</sup>, **Elvezia Maria Paraboschi**<sup>1</sup>, **Mattia Pedotti**<sup>2</sup>, **Andrea Doni**<sup>1</sup>, **Francesco Scavello**<sup>1</sup>, **Sarah N. Mapelli**<sup>1</sup>, **Marina Sironi**<sup>1</sup>, **Chiara Perucchini**<sup>1</sup>, **Luca Varani**<sup>2</sup>, **Milos Matkovic**<sup>2</sup>, **Andrea Cavalli**<sup>2</sup>, **Daniela Cesana**<sup>1</sup>, **Pierangela Gallina**<sup>1</sup>, **Nicoletta Pedemonte**<sup>1</sup>, **Valeria Capurro**<sup>1</sup>, **Nicola Clementi**<sup>1</sup>, **Nicasio Mancini**<sup>1</sup>, **Pietro Invernizzi**<sup>1</sup>, **Rafael Bayarri-Olmos**<sup>3</sup>, **Peter Garred**<sup>3</sup>, **Rino Rappuoli**<sup>1,4</sup>, **Stefano Duga**<sup>1</sup>, **Barbara Bottazzi**<sup>1</sup>, **Mariagrazia Uguccioni**<sup>1,2</sup>, **Rosanna Asselta**<sup>1</sup>, **Elisa Vicenzi**<sup>1</sup>, **Alberto Mantovani**<sup>1,4</sup>, **Cecilia Garlanda**<sup>1</sup> (*Italy*, <sup>2</sup>*Switzerland*, <sup>3</sup>*Denmark*, <sup>4</sup>*United Kingdom*)**14.50** Induction of SARS-CoV-2-specific regulatory T cells in COVID-19 patients  
**WS7.3** and vaccinated individuals**Cristina Bellisai**<sup>1</sup>, **Francesco Certo**<sup>1</sup>, **Mariachiara Corrado**<sup>1</sup>, **Vanessa Mancini**<sup>1</sup>, **Gabriela Leonti**<sup>1</sup>, **Filippo Conti**<sup>1</sup>, **Daniele Accapezzato**<sup>1</sup>, **Pasquale Pignatelli**<sup>1</sup>, **Maria Claudia Miele**<sup>1</sup>, **Alessandra Oliva**<sup>1</sup>, **Francesca Lombardi**<sup>1</sup>, **Matteo Casinelli**<sup>1</sup>, **Guido Antonelli**<sup>1</sup>, **Eva Piano Mortari**<sup>1</sup>, **Rita Carsetti**<sup>1</sup>, **Alba Grifoni**<sup>2</sup>, **Alessandro Sette**<sup>2</sup>, **Luigia Pace**<sup>1</sup>, **Roberto Cauda**<sup>1</sup>, **Vincenzo Barnaba**<sup>1</sup>, **Maria Manuela Rosado**<sup>1</sup> (*Italy*, <sup>2</sup>*USA*)**15.00** SARS-CoV-2 spike-specific CD4+ T cell response is conserved against  
**WS7.4** variants of concern, including Omicron**Laura Maggi, Alessio Mazzoni, Anna Vanni, Manuela Capone, Giulia Lamacchia, Francesco Liotta, Alberto Carnasciali, Lorenzo Cosmi, Parham Farahvachi, Lorenzo Salvati, Alessandro Bartoloni, Gian Maria Rossolini, Francesco Annunziato** (*Italy*)

**14.30** **WORKSHOP SESSION 7**

**15.30** **IMMUNE RESPONSE TO SARS-COV2 AND COVID-19** *(cont.)*

**15.10** Evaluation of Sars-CoV-2 entry receptors in COVID-19 positive and  
**WS7.5** negative placentae: correlation between expression and infectivity  
**Chiara Agostinis, Miriam Toffoli, Mariagiulia Spazzapan, Andrea Balduit, Alessandro Mangogna, Gabriella Zito, Luisa Zupin, Tiziana Salviato, Luca Braga, Serena Maiocchi, Federico Romano, Francesco Fontana, Marco Confalonieri, Giuseppe Ricci, Roberta Bulla** *(Italy)*

**15.20** Administration of aerosolized SARS-CoV-2 to K18-hACE2 mice uncouples  
**WS7.6** respiratory infection from fatal neuroinvasion  
**Valeria Fumagalli, Micol Ravà, Davide Marotta, Pietro Di Lucia, Chiara Laura, Eleonora Sala, Marta Grillo, Elisa Bono, Leonardo Giustini, Chiara Perucchini, Marta Mainetti, Alessandro Sessa, Josè M. Garcia-Manteiga, Lorena Donnici, Lara Manganaro, Serena Delbue, Vanìa Broccoli, Raffaele De Francesco, Patrizia D'Adamo, Mirela Kuka, Luca G. Guidotti, Matteo Iannacone** *(Italy)*

**PARALLEL ROOM****14.30** **WORKSHOP SESSION 8****15.30** **MYELOID CELLS**Chairpersons: **Gaia Codolo** (*Italy*), **Eleonora Timperi** (*France*)**14.30** The atypical receptor CCRL2 as a modulator of aged neutrophil homing to  
**WS8.1** organs**Tiziana Schioppa, Iliaria Barbazza, Mauro Passari, Chiara Mazzotti, Francesca Sozio, Laura Tiberio, Mario Mellado, Annalisa Del Prete, Silvano Sozzani** (*Italy*)**14.40** Combination immunotherapy with toll-like receptors agonists to reprogram  
**WS8.2** immunosuppressive macrophages in checkpoint inhibitors resistant lung cancers  
**Clément Anfray<sup>1</sup>, Aldo Ummarino<sup>1</sup>, Francisco Expósito<sup>2</sup>, Alfonso Calvo<sup>2</sup>, Fernando Torres Andón<sup>2</sup>, Paola Allavena<sup>1</sup>** (*Italy, <sup>2</sup>Spain*)**14.50** Repurposing of the antiepileptic drug levetiracetam to restrain neuroendocrine  
**WS8.3** prostate cancer and inhibit mast cell support to adenocarcinoma  
**Roberta Sulsenti, Barbara Frossi, Lucia Bongiovanni, Valeria Cancila, Paola Ostano, Irene Fischetti, Claudia Enriquez, Francesca Guana, Giovanna Chiorino, Claudio Tripodo, Carlo E. Pucillo, Mario P. Colombo, Elena Jachetti** (*Italy*)**15.00** Promoting dendritic cell activity amplifies responses against bona-fide tumor  
**WS8.4** neoantigens in lung tumors  
**Lucía López, Giulia Maria Piperno, Simone Vodret, Roberto Amadio, Giovanni Germano, Giuseppe Rospo, Alberto Bardelli, Federica Benvenuti** (*Italy*)**15.10** Analysis of Pyn and NLRP3 inflammasome activation for a functional definition  
**WS8.5** of a novel autoinflammatory condition responsive to colchicine: syndrome of undifferentiated recurrent fever  
**Serena Palmeri, Arinna Bertoni, Riccardo Papa, Federica Penco, Anna Corcione, Roberta Caorsi, Caterina Matucci-Cerinic, Marta Bustaffa, Francesca Schena, Paola Bocca, Stefano Volpi, Anna Rubartelli, Marco Gattorno, Ignazia Prigione** (*Italy*)**15.20** NRIR drives the interferon-response in LPS-treated monocytes: mechanism of  
**WS8.6** action and implication for systemic sclerosis  
**Barbara Mariotti, Flavia Bazzoni** (*Italy*)**15.30** *Coffee break***15.50** (*Exhibition Area - Building 20*)

**MAIN ROOM**

**15.50** **PLENARY SYMPOSIUM 5**

**17.30** **BREAKING NEWS IN INNATE IMMUNITY**

Chairpersons: **Roberta Castriconi** (*Italy*), **Maria Rosaria Galdiero** (*Italy*)

**15.50** NK cell clonality and specificity  
**PS5.1** **Chiara Romagnani** (*Germany*)

**16.15** Functional plasticity of human  $\gamma\delta$  T cells in cancer  
**PS5.2** **Serena Meraviglia** (*Italy*)

**16.40** Identification of PMN-MDSC markers by gene and protein expression  
**PS5.3** analysis of mature PMN-MDSCs from G-CSF-treated donors and tumor patients  
**Patrizia Scapini** (*Italy*)

**17.05** Platelet extracellular vesicles modulate neutrophil state in systemic sclerosis via  
**PS5.4** HMGB1  
**Norma Maugeri, Giuseppe A. Ramirez, Antonella Monno, Annalisa Capobianco, Stefano Franchini, Marco E. Bianchi, Patrizia Rovere-Querini, Angelo A. Manfredi** (*Italy*)

**17.15** PPAR $\gamma$  orchestrates the pro-tumoral role of type-2 innate lymphoid cells in  
**PS5.5** colorectal cancer  
**Giuseppe Ercolano<sup>1</sup>, Alejandra Gomez-Cadena<sup>1</sup>, Pedro Romero<sup>2</sup>, Angela Ianaro<sup>1</sup>, Sara Trabanelli<sup>1</sup>, Camilla Jandus<sup>1</sup>** (*Italy*, <sup>2</sup>*Switzerland*)

**MAIN ROOM**

**17.30** **KEYNOTE LECTURE 3**

**18.15** **GENETIC ENGINEERING OF HEMATOPOIESIS TO TREAT INHERITED DISEASES AND CANCER**

Chairpersons: **Flavia Bazzoni** (*Italy*), **Daniela Bosisio** (*Italy*)

**KL3** Speaker: **Luigi Naldini** (*Italy*)

**MAIN ROOM**

**18.20** **SIICA GENERAL ASSEMBLY**

**20.00**



**MAIN ROOM**

**08.00** **SIICA GROUP OF INTEREST: "VACCINES"**  
**09.00** **SIICA Interest Group Meeting**

**PARALLEL ROOM**

**08.00** **SIICA COMMISSION: "EXTERNAL RELATIONS"**  
**09.00** **SIICA Committee Meeting (*reserved to Committee Members*)**

**MAIN ROOM**

**09.00** **PLENARY SYMPOSIUM 6**  
**10.40** **IMMUNE RESPONSE IN COVID-19**  
 Chairpersons: **Raffaele De Palma** (*Italy*), **Alessio Mazzone** (*Firenze*)

**09.00** Cellular and humoral immunity to SARS-CoV-2 spike protein following  
**PS6.1** natural infection or vaccination  
**Francesco Annunziato** (*Italy*)

**09.25** Innate and adaptive immune responses to SARS-CoV-2  
**PS6.2** **Giovanna Borsellino** (*Italy*)

**09.50** Integrated view of the immunological landscape in COVID-19  
**PS6.3** **Andrea Cossarizza** (*Italy*)

**10.15** Autoantibodies and complement activation in bronchoalveolar lavage and tissues  
**PS6.4** of COVID-19 patients  
**Luca De Maso, Stefano Di Bella, Paolo Durigutto, Marcello Manfredi, Erik Roman-Pognuz, Verena Zerbato, Stella Bernardi, Rossana Bussani, Roberto Luzzati, Paolo Macor** (*Italy*)

**10.25** The impairment of thymic function observed in COVID-19 patients correlates with  
**PS6.5** disease severity  
**Marco Rosichini, Veronica Bordoni, Davide Mariotti, Antonella Cardinale, Giulia Matusali, Marialuigia Catanoso, Giovanna Zambruno, Angelo Giuseppe Condorelli, Sara Flamini, Matteo Trezzi, Lorenzo Galletti, Concetta Quintarelli, Chiara Agrati, Franco Locatelli, Enrico Velardi** (*Italy*)

**MAIN ROOM**

**10.40** *Coffee break - Posters on free view*  
**11.00** *Exhibition Area - Building 20*

**11.00** **SYMPOSIUM 7**

**12.20** **THE VACCINE CHALLENGE FOR IMMUNOLOGY AND PUBLIC HEALTH**

Chairperson: **Maria Triassi** (*Italy*)

**11.00** Vaccines to prevent cancer: HPV vaccine development, actual public health  
**PS7.1** challenges and future perspectives  
**Mel Khon** (*Germany*)

**11.20** Vaccine booster doses: why and when: the COVID-19 and meningitis examples  
**PS7.2** **Chiara Azzari** (*Italy*)

**11.40** New vaccines and immune aging: protection of the elderly  
**PS7.3** **Francesco Landi** (*Italy*)

**12.00** Phospholipid scramblase 1 contributes to in vitro antitumor efficacy of dendritic  
**PS7.4** cell vaccine based on the exploitation of tumor cells experiencing immunogenic  
cell death  
**Barbara Montico<sup>1</sup>, Maria Julia Lamberti<sup>1,2</sup>, Annunziata Nigro<sup>1</sup>, Riccardo  
Dolcetti<sup>3</sup>, Debora Martorelli<sup>1</sup>, Katy Mastorci<sup>1</sup>, Maria Ravo<sup>1</sup>, Giovanna Ventola<sup>1</sup>,  
Agostino Steffan<sup>1</sup>, Cristiana Stellato<sup>1,4</sup>, Vincenzo Casolaro<sup>1</sup>, Jessica Dal Col<sup>1</sup>**  
(<sup>1</sup>Italy, <sup>2</sup>Argentina, <sup>3</sup>Australia, <sup>4</sup>USA)

**12.10** Primary immune responses are negatively impacted by persistent herpesvirus  
**PS7.5** infections in older people: results from an observational study on healthy subjects  
and a vaccination trial on subjects aged more than 70 years old  
**Francesco Nicoli<sup>1</sup>, Emmanuel Clave<sup>2</sup>, Kerstin Wanke<sup>3</sup>, Amrei von Braun<sup>3</sup>,  
Vincent Bondet<sup>2</sup>, Cécile Alanio<sup>2</sup>, Peggy Marconi<sup>1</sup>, Darragh Duffy<sup>2</sup>, Jacques  
Boddaert<sup>2</sup>, Delphine Sauce<sup>2</sup>, Antoine Toubert<sup>2</sup>, Urs Karrer<sup>3</sup>, Victor Appay<sup>2</sup>**  
(<sup>1</sup>Italy, <sup>2</sup>France, <sup>3</sup>Switzerland)

**PARALLEL ROOM**

**11.00 SYMPOSIUM 8**

**12.20 IMMUNE DISEASES: FROM ASTHMA TO ANGIOEDEMA**

Chairpersons: **Aikaterini Detoraki** (*Italy*), **Angelica Petraroli** (*Italy*)

**11.00 PS8.1** Eosinophilic immune dysfunction: key roles for eosinophils in asthma and eosinophil-driven diseases  
**Alessandro Vatrella** (*Italy*)

**11.20 PS8.2** Type-2 inflammation and asthma comorbidities  
**Lorenzo Cosmi** (*Italy*)

**11.40 PS8.3** Angioedema physiopathology: from bed to bench  
**Maria Bova** (*Italy*)

**12.00 PS8.4** Role of allergy work-up in prevention and diagnosis of hypersensitivity reactions to COVID-19 vaccines  
**Fiorella Petrelli, Daiana Giannini, Celestino Pucci, Isabella Del Corso, Valeria Rocchi, Maria Pia Dolcher, Federico Pratesi, Paola Migliorini, Ilaria Puxeddu** (*Italy*)

**12.10 PS8.5** Antibody response in myelofibrosis patients after three doses of mRNA SARS-CoV-2 vaccine  
**Fabio Fiorino, Anna Sicuranza, Annalisa Ciabattini, Adele Santoni, Gabiria Pastore, Martina Simoncelli, Jacopo Polvere, Sara Galimberti, Claudia Baratè, Francesca Montagnani, Vincenzo Sammartano, Monica Bocchia, Donata Medaglini** (*Italy*)

**MAIN ROOM**

**12.30 KEYNOTE LECTURE 4**

**13.15 INTERFERONS: FRIENDS OR FOES IN COVID-19?**

Chairpersons **Piergiuseppe De Berardinis** (*Italy*), **Federica Laudisi** (*Italy*)

**KL4** Speaker: **Ivan Zanoni** (*USA*)

**MAIN ROOM**

**13.15 SIICA 2022 AWARDS**

**13.30** Annual Meeting Best Communication Awards

“Ricerca” Award  
 EMBO Prize  
 Travel Grants

**13.30** Closing remarks

**POSTER AREA**  
**TUESDAY MAY 24, 2022 - 13.30-14.30**

**TUMOR IMMUNOLOGY I**

Poster walk, guided by **Mattia Laffranchi** and **Eleonora Timperi**

- P1.1** A pan-cancer atlas of human tumor-associated macrophages  
**Federica La Terza, Luca Mezzanzanica, Nicoletta Caronni, Giulia Barbiera, Renato Ostuni** (*Italy*)
- P1.2** Spatial transcriptomics dissects functional organization in the murine pancreatic cancer  
**Carlo Leonardi** (*Italy*)
- P1.3** Myeloma cells and their lncRNAs modulate the selective transfer of miRNA from fibroblast-derived exosomes  
**Iliaria Saltarella, Aurelia Lamanuzzi, Vanessa Desantis, Lucia Di Marzo, Assunta Melaccio, Paola Curci, Tiziana Annesse, Beatrice Nico, Pellegrino Musto, Maria Antonia Frassanito, Angelo Vacca** (*Italy*)
- P1.4** Expression of CCRL2 isoforms in human immune cells and prostate cancer cell lines  
**Laura Tiberio, Hoang Oanh Nguyen, Tiziana Schioppa, Francesca Sozio, Sandra Sigala, Elisa Rossini, Annalisa Del Prete, Daniela Bosisio, Silvano Sozzani, Valentina Salvi** (*Italy*)
- P1.5** A new immune checkpoint primes CD8 + T cells for enhanced effector function in cancer immunotherapy  
**Caterina Scirgolea, Simone Puccio, Silvia Carnevale, Alice Scarpa, Veronica Zanon, Giorgia Alvisi, Gabriele De Simone, Sebastien Jaillon, Enrico Lugli** (*Italy*)
- P1.6** The complement protein C1q influences hyaluronic acid degradation in malignant pleural mesothelioma  
**Andrea Baldui, Romana Vidergar, Paola Zacchi, Alessandro Mangogna, Chiara Agostinis, Micaela Grandolfo, Cristina Bottin, Fabrizio Zanconati, Marco Confalonieri, Roberta Bulla** (*Italy*)
- P1.7** The orphan nuclear receptor NR2F6 a novel regulator of cancer immune responses  
**Giorgia Manni, Francesco Antonio Greco, Marco Gargaro, Daniela Passeri, Francesca De Franco, Doriana Ricciuti, Eleonora Padiglioni, Giulia Scalisi, Giulia Mencarelli, Benedetta Pieroni, Roberto Pellicciari, Francesca Fallarino** (*Italy*)

**POSTER AREA  
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- P1.8** Eosinophils and interleukin-33 -mediated anticancer activities: role of exosomes in shaping tumor phenotype  
**Adriana Rosa Gambardella, Sara Andreone, Jacopo Mancini, Chiara Sicignano, Adele De Ninno, Giovanna Ziccheddu, Cristiana Zanetti, Isabella Parolini, Luca Businaro, Claudia Afferni, Gianni Marone, Fabrizio Mattei, Giovanna Schiavoni** (*Italy*)
- P1.9** Evaluation of CD8+ tissue-resident memory cells in glioma  
**Leila Mohammadnezhad, Diana Di Liberto, Marianna Lo Pizzo, Marco Pio La Manna, Mojtaba Shekarkar Azgomi, Rosario Maugeri, Lara Brunasso, Domenico Gerardo Jacopino, Francesco Dieli, Nadia Caccamo** (*Italy*)
- P1.10** Granzyme K high CD8+ T effector memory cells are associated with CD15 high neutrophil abundance in early-stage colorectal tumors and predict poor clinical outcome  
**Silvia Tiberti<sup>1</sup>, Carlotta Catozzi<sup>1</sup>, Caterina Scirgolea<sup>1</sup>, Ottavio Croci<sup>1</sup>, Mattia Ballerini<sup>1</sup>, Danilo Cagnina<sup>1</sup>, Chiara Soriani<sup>1</sup>, Carina B. Nava Lauson<sup>1</sup>, Angeli D. Macandog<sup>1</sup>, Giovanni Bertalot<sup>1</sup>, Wanda L. Petz<sup>1</sup>, Simona P. Ravenda<sup>1</sup>, Valerio Licursi<sup>1</sup>, Paola Paci<sup>1</sup>, Marco Rasponi<sup>1</sup>, Nicola Fazio<sup>1</sup>, Guangwen Ren<sup>2</sup>, Uberto Fumagalli-Romario<sup>1</sup>, Martin H. Shaefer<sup>1</sup>, Stefano Campaner<sup>1</sup>, Enrico Lugli<sup>1</sup>, Luigi Nezi<sup>1</sup>, Teresa Manzo<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P1.11** Epigenetic targeting of melanoma with Decitabine enhances the IL-33/ST2 pathway and improves the anti-tumoral activity of IL-33 in vitro and in vivo  
**Francesco Noto, Sara Andreone, Adriana Rosa Gambardella, Chiara Sicignano, Jacopo Mancini, Carla Buccione, Adele De Ninno, Maria Teresa D'Urso, Daniele Macchia, Massimo Spada, Luca Businaro, Claudia Afferni, Fabrizio Mattei, Giovanna Schiavoni** (*Italy*)
- P1.12** Melanoma infiltrating  $\gamma\delta$  T cells and immune-checkpoints expression: potential for a novel combined immunotherapeutical approach  
**Marta Di Simone, Anna Maria Corsale, Anna Barbara Di Stefano, Elena Lo Presti, Francesca Toia, Adriana Cordova, Carmela Picone, Mojtaba Shekarkar Azgomi, Francesco Dieli, Serena Meraviglia** (*Italy*)
- P1.13** Neutrophils plasticity in human melanoma  
**Luca Modestino, Leonardo Cristinziano, Anne Lise Ferrara, Stefania Loffredo, Maria Rosaria Galdiero** (*Italy*)
- P1.14** The tumor epithelium shapes the profile of tumor-associated macrophages in colorectal cancer  
**Annalisa Barizza, Marta Tromboni, Stefania Vassallo, Sara Coletta, Gaia Codolo** (*Italy*)

**POSTER AREA**  
**TUESDAY MAY 24, 2022 - 13.30-14.30**

- P1.15** Single-cell transcriptomic reveals functional macrophage heterogeneity in glioma microenvironment  
**Benedetta Savino, Alessandra Castagna, Chiara Veronica Locarno, Clelia Peano, Matteo Simonelli, Massimo Locati** (*Italy*)
- P1.16** Phenotypic and functional study of CD8+ tissue resident memory cells in the bone marrow of new diagnosed multiple myeloma patients  
**Marco Pio La Manna, Melania Carlisi, Giusto Davide Badami, Valentina Orlando, Francesco Dieli, Nadia Caccamo** (*Italy*)
- P1.17** Leukemic cell-derived interleukin-9 (IL-9) impairs the ability of cytotoxic T lymphocytes to form functional lytic synapses in chronic lymphocytic leukemia  
**Gioia Boncompagni, Vanessa Tatangelo, Nagaja Capitani, Federica Frezzato, Andrea Visentin, Livio Trentin, Semenzato Gianpietro, Comisa Tatiana Baldari, Laura Patrusi** (*Italy*)
- P1.18** Leukemia B cell clones show altered expression of MHC-I and antigen processing and presentation machinery in chronic lymphocytic leukemia subjects  
**Valentina Rubino, Flavia Carriero, Anna Teresa Palatucci, Stefania Leone, Angela Giovazzino, Alessandro D'Ambrosio, Valerio Nicoletta, Marialuigia Iannalfo, Federico Chiurazzi, Giuseppina Ruggiero, Giuseppe Terrazzano** (*Italy*)
- P1.19** The priming with aminobisphosphonates of colorectal carcinoma-associated mesenchymal stromal cells leads to expansion of anti-tumor V $\delta$ 2T lymphocytes  
**Jordi Leonardo Castrillo Fernandez, Federico Villa, Delfina Costa, Roberto Benelli, Alessandro Poggi** (*Italy*)
- P1.20** Stearoyl-coenzyme A desaturase 1 promotes regulatory T cells expansion in hepatocellular carcinoma  
**Alessandra Rossi, Ilenia Pacella, Ivano Rotella, Alessandra Pinzon Grimaldos, Elena Potenza, Marta Zagaglioni, Valeria Pinna, Ilenia Cammarata, Gloria Tucci, Federica Pelliccia, Giovanna Peruzzi, Silvia Piconese** (*Italy*)
- P1.21** Transforming growth factor-beta-induced protein as a novel secreted immune check-point in colorectal cancer  
**Ivana Celardo, Maria Manuela Rosado, Alessio Grimaldi, Eleonora Timperi, Daniela Gallerano, Vanessa Mancini, Mariachiara Corrado, Giancarlo D'Ambrosio, Fabrizio Maria Frattaroli, Andrea Picchetto, Paolina Saullo, Raffaele Troiano, Edoardo Muttillio, Gian Luca Grazi, Andrea Scarinci, Roberto Caronna, Massimo Chiaretti, Ombretta Melaiu, Doriana Fruci, Sara Vitale, Micol Eleonora Fiori, Vincenzo Barnaba** (*Italy*)

**POSTER AREA**  
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- P1.22** Cancer-intrinsic role of calcineurin in affecting the tumour immune microenvironment and the response to immune-checkpoint inhibitors  
**Maguie El Boustani, Francesca Mingozzi, Laura Marongiu, Mihai Valache, Giulia Stucchi, Giuseppe Rocca, Giulia Protti, Marco Galli, Andrea Migliore, Francesca Granucci** (*Italy*)
- P1.23** IL-1R8 acts as an immune checkpoint in CD8+ T cells  
**Domenico Supino<sup>1</sup>, Andrea Mariancini<sup>1</sup>, Chiara Perucchini<sup>1</sup>, Silvia Carnevale<sup>1</sup>, Andrea Ponzetta<sup>2</sup>, Federico Colombo<sup>1</sup>, Elena Magrini<sup>1</sup>, Anna Rigatelli<sup>1</sup>, Luna Minute<sup>1</sup>, Martina Molgora<sup>3</sup>, Sarah Mapelli<sup>1</sup>, Alessia Donato<sup>1</sup>, Irene Di Ceglie<sup>1</sup>, Sarah Tettamanti<sup>1</sup>, Andrea Biondi<sup>1</sup>, Enrico Lugli<sup>1</sup>, Sebastien Jaillon<sup>1</sup>, Alberto Mantovani<sup>1,4</sup>, Cecilia Garlanda<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Sweden, <sup>3</sup>USA, <sup>4</sup>United Kingdom*)

**T & B CELLS**

Poster walk, guided by **Anna Kabanova** and **Silvia Tonon**

- P2.1** Permanent loss of HLA-E restricted CD8+ T stem cell memory cells in human tuberculosis  
**Mojtaba Shekarkar Azgomi<sup>1</sup>, Marco Pio La Manna<sup>1</sup>, Lucy C. Sullivan<sup>2</sup>, Andrew G. Brooks<sup>2</sup>, Paola Di Carlo<sup>3</sup>, Francesco Dieli<sup>1</sup>, Nadia Caccamo<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Australia*)
- P2.2** T-helper 1-like virus-specific CD4+T cells are able to revert the CD8+T cell dysfunction induced by hepatocellular priming in a mouse model of hepatitis B virus pathogenesis  
**Valentina Venzin, Cristian Beccaria, Valeria Fumagalli, Elisa Bono, Leonardo Giustini, Chiara Perucchini, Giorgia De Simone, Marta Grillo, Elena Rodriguez Bovolenta, Matteo Iannacone** (*Italy*)
- P2.3** IFN- $\gamma$  promotes TH1 at the expense of TFH differentiation during viral infections  
**Eleonora Sala, Marta Mangione, Chiara Laura, Eleonora Consolo, Cristian Gabriel Beccaria, Matteo Iannacone, Mirela Kuka** (*Italy*)
- P2.4** Functional and phenotypical analysis of B lymphocytes in tuberculosis infection  
**Giusto Davide Badami, Marco Pio La Manna, Valentina Orlando, Mojtaba Shekarkar Azgomi, Bartolo Tamburini, Francesco Dieli, Nadia Caccamo** (*Italy*)
- P2.5** Genomic landscape of CD8+ T cells undergoing intrahepatic priming  
**Chiara Laura, Caroline Krüger, Xenia Ficht, Matteo Iannacone** (*Italy*)
- P2.6** Idiopathic CD4+ T cell deficiency: case report and review of literature  
**Francesco Arcoleo, Pietro Andrea Accardo** (*Italy*)
- P2.7** Immune deregulation with a shift toward a T cell exhausted phenotype in severe infertile men  
**Giada Amodio, Luca Boeri, Edoardo Pozzi, Federico Belladelli, Luca Valsecchi, Francesco Montorsi, Andrea Salonia, Silvia Gregori** (*Italy*)

**POSTER AREA**  
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- P2.8** Staphylococcal enterotoxin B (SEB) activates pro-inflammatory signals mediated by TCR and CD28 in the absence of MHC class II molecules  
**Martina Kunkl<sup>1</sup>, Carola Amormino<sup>1</sup>, Silvana Caristi<sup>1</sup>, Valentina Tedeschi<sup>1</sup>, Maria Teresa Fiorillo<sup>1</sup>, Revital Levy<sup>2</sup>, Andrey Popugailo<sup>2</sup>, Raymond Kaempfer<sup>2</sup>, Loretta Tuosto<sup>1</sup>** (<sup>1</sup>Italy, <sup>2</sup>Israel)
- P2.9** The mitotic regulator polo-like kinase 1 promotes cytotoxic T lymphocyte polarization  
**Fabrizia Zevolini, Francesca Finetti, Anna Onnis, Giuliano Callaini, Cosima Baldari** (*Italy*)
- P2.10** Characterization of tumor-associated T cells in patients with thymic epithelial tumors  
**Sara Franzese, Simone Balin, Sara Terzoli, Elena Fontana, Emanuele Voulaz, Matteo Perrino, Luca Di Tommaso, Anna Villa, Paolo Andrea Zucali, Silvia Della Bella, Domenico Mavilio** (*Italy*)
- P2.11** Musculin gene involvement in animal models for inflammation  
**Alberto Carnasciali, Alessio Mazzoni, Anna Vanni, Manuela Capone, Parham Farahvachi, Francesco Liotta, Lorenzo Cosmi, Clara Ballerini, Laura Maggi, Francesco Annunziato** (*Italy*)
- P2.12** Human amniotic mesenchymal stromal cell secreted factors modulate B cells from patients with rheumatoid arthritis  
**Alice Masserdotti, Marta Magatti, Anna Pasotti, Patrizia Bonassi Signoroni, Clara Di Mario, Luca Petricca, Simone Perniola, Maria Rita Gigante, Elisa Gremese, Barbara Tolusso, Stefano Alivernini, Antonietta Silini, Ornella Parolini** (*Italy*)
- P2.13** Development of a human in vitro lymphoid tissue model to study B cell responses  
**Elena Bonaiti, Manuele G. Muraro, Christoph T. Berger** (*Switzerland*)
- P2.14** Effect of conditioned-medium from amniotic mesenchymal stromal cells on young and aged immune cells  
**Marta Magatti, Anna Pasotti, Alice Masserdotti, Franco Capuzzi, Antonietta Silini, Ornella Parolini** (*Italy*)



**POSTER AREA  
TUESDAY MAY 24, 2022 - 13.30-14.30****TUMOR IMMUNOLOGY II**Poster walk, guided by **Alessio Grimaldi** and **Irene Mattiola**

- P3.1** Boosting natural killer cells-mediated killing by pharmacologically activated p53  
**Cinzia Garofalo<sup>1</sup>, Madurendra Singh<sup>2</sup>, Ali Rhiani<sup>2</sup>, Ennio Carbone<sup>1,2</sup>, Galina Selivanova<sup>2</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Sweden*)
- P3.2** Prognostic value of immune cells in the multiple myeloma bone marrow microenvironment: a meta-analysis with in silico and in vitro validation  
**Antonio Giovanni Solimando<sup>1</sup>, Nicola Susca<sup>1</sup>, Paola Borrelli<sup>1</sup>, Matteo Claudio Da Vià<sup>1</sup>, Maria Antonia Frassanito<sup>1</sup>, Vanessa Desantis<sup>1</sup>, Ilaria Saltarella<sup>1</sup>, Assunta Melaccio<sup>1</sup>, Roberto Ria<sup>1</sup>, Hermann Einsele<sup>2</sup>, Angelo Vacca<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Germany*)
- P3.3** Characterization of immunodominant epitopes of alpha-enolase (ENO1) to improve the anti-tumor specific T cell response in pancreatic cancer patients  
**Silvia Brugiapaglia, Claudia Curcio, Daniele Giordano, Rosella Spadi, Ennia Dametto, Monica Berrino, Antonio Amoroso, Paola Cappello, Francesco Novelli** (*Italy*)
- P3.4** Immunomodulatory effect of gefitinib in epidermal growth factor receptor tyrosine kinase inhibitors sensitive and resistant non small cell lung cancer: role of the RNA binding protein HuR  
**Anunziata Nigro<sup>1</sup>, Ilaria Salvato<sup>1</sup>, Luca Ricciardi<sup>1</sup>, Maria Julia Lamberti<sup>2</sup>, Gaetano Caramori<sup>1</sup>, Vincenzo Casolaro<sup>1</sup>, Cristiana Stellato<sup>1</sup>, Jessica Dal Col<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Argentina*)
- P3.5** Role of the atypical chemokine receptor ACKR2 in cancer metastatic process  
**Francesca Albano<sup>1</sup>, Valeria Mollica Poeta<sup>1</sup>, Arianna Capucetti<sup>1</sup>, Alessandra Castagna<sup>1</sup>, Rachele Di Donato<sup>1</sup>, Alberto Mantovani<sup>1,2</sup>, Raffaella Bonecchi<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>United Kingdom*)
- P3.6** Maternal immunization against anaplastic lymphoma kinase to defeat neuroblastoma  
**Giuseppina Barutello<sup>1</sup>, Federica Riccardo<sup>1</sup>, Antonella Iacoviello<sup>1</sup>, Claudia Voena<sup>1</sup>, Elisabetta Bolli<sup>1</sup>, Laura Conti<sup>1</sup>, Elena Quaglino<sup>1</sup>, Roberto Chiarle<sup>2</sup>, Federica Cavallo<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>USA*)
- P3.7** Human lung-resident macrophages express and are targets of thymic stromal lymphopoietin in the tumor microenvironment  
**Mariantonia Braille, Alfonso Fiorelli, Daniela Sorriento, Rosa Maria Di Crescenzo, Maria Rosaria Galdiero, Gianni Marone, Mario Santini, Gilda Varricchi, Stefania Loffredo** (*Italy*)
- P3.8** Targeting chemokine receptors to promote anti-tumor responses of neutrophils  
**Arianna Capucetti, Francesca Albano, Raffaella Bonecchi** (*Italy*)

**POSTER AREA**  
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- P3.9** Mapping the spatial heterogeneity of tumor-associated macrophages in pancreatic ductal adenocarcinoma  
**Vincenzo Cuzzola, Marco Genua, Nicoletta Caronni, Carlo Leonardi, Federica La Terza, Francesco Maria Vittoria, Luca Mezzanzanica, Giulia Barbiera, Antonio Citro, Stefano Crippa, Marco Schiavo Lena, Claudio Doglioni, Lorenzo Piemonti, Renato Ostuni (Italy)**
- P3.10** Toll-like receptor 2 promotes breast cancer progression and resistance to chemotherapy  
**Antonino Di Lorenzo, Elisabetta Bolli, Federica Cavallo, Laura Conti (Italy)**
- P3.11** Chemotherapy reshapes the immune landscape of colorectal cancer metastases in the liver  
**Cristina Faccani, Francesca Clemente, Maya Fedeli, Alessia Potenza, Maria Pia Protti, Federica Pedica, Guido Fiorentini, Antonella Tudisco, Luca Aldrighetti, Maria Chiara Bonini, Giulia Casorati, Paolo Dellabona, Claudia de Lalla (Italy)**
- P3.12** Flow cytometric analysis reveals that TILs from human glioma samples are enriched of tissue-resident cells and express high level of the immune checkpoints PD-1  
**Parham Farahvachi, Anna Vanni, Manuela Capone, Alessio Mazzoni, Giulia Lamacchia, Alberto Carnasciali, Camilla Bonaudo, Laura Maggi, Alessandro Della Puppa, Francesco Annunziato (Italy)**
- P3.13** Conditioned media of colorectal cancer cell lines treated with 5-fluorouracil influence the recruitment, survival and activity of neutrophils  
**Elisa Gardiman, Francisco Bianchetto-Aguilera, Sara Gasperini, Silvia Carnevale, Marco A. Cassatella, Sebastien Jaillon, Nicola Tamassia (Italy)**
- P3.14** CCRL2 expression is suppressed by regulons active in lung tumoral endothelial cells  
**Mattia Laffranchi, Arianna Piserà, Francesca Sozio, Tiziana Schioppa, Annalisa Del Prete, Silvano Sozzani (Italy)**
- P3.15** The immune suppressive activity of tumor-associated macrophages in glioblastoma patients is regulated by heme oxygenase-1  
**Sara Magri, Beatrice Musca, Laura Pinton, Ciriana Orabona, Camilla Bonaudo, Francesco Volpin, Pietro Ciccarino, Alessandro Della Puppa, Susanna Mandruzzato (Italy)**
- P3.16** 3D-based model to study B cell role in colorectal cancer  
**Eleonora Martinis, Silvia Tonon, Carlo Pucillo, Barbara Frossi, Carolina Ricci, Caterina Trevisan (Italy)**

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- P3.17** Mass density of three dimensional cell cultures: evaluation of primary glioma spheroids upon treatment with Interferon  $\gamma$   
**Serena Matis, Antonio Daga, Roberta Carosio, Federico Villa, Gianluigi Zona, Alessandro D'Andrea, Alessandro Poggi** (*Italy*)
- P3.18** A self-sustaining inflammatory crosstalk between cancer cells and macrophages promotes pancreatic ductal adenocarcinoma progression  
**Luca Mezzanzanica, Francesco Maria Vittoria, Federica La Terza, Giulia Barbiera, Vincenzo Cuzzola, Carlo Leonardi, Francesco Cilenti, Antonio Citro, Stefano Crippa, Claudio Doglioni, Marco Schiavo Lena, Marco Genua, Nicoletta Caronni, Renato Ostuni** (*Italy*)
- P3.19** TIMP1 and TIMP2 downregulate TGF- $\beta$  induced decidual-like phenotype in natural killer cells  
**Adriana Albini<sup>1</sup>, Matteo Gallazzi<sup>1</sup>, Maria Teresa Palano<sup>1</sup>, Valentina Carlini<sup>1</sup>, Riccardo Ricotta<sup>1</sup>, Antonino Bruno<sup>1</sup>, William G. Stetler-Stevenson<sup>2</sup>, Douglas M. Noonan<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P3.20** Teneurin-4 as valuable immune-target and biomarker in triple negative breast cancer  
**Giulia Peppino, Giuseppina Barutello, Roberto Ruii, Maddalena Arigoni, Federica Riccardo, Laura Conti, Elisabetta Bolli, Elena Quaglino** (*Italy*)
- P3.21** Role of the cystine/glutamate antiporter xCT in the interaction between mammary cancer and the immune system  
**Roberto Ruii, Chiara Cossu, Laura Conti, Luca Ponzone, Elisabetta Bolli, Enzo Calautti, Federica Cavallo** (*Italy*)
- P3.22** CCRL2/chemerin axis is necessary for controlling anti-lung tumor NK-cell dependent activity  
**Francesca Sozio<sup>1</sup>, Tiziana Schioppa<sup>1</sup>, Valentina Salvi<sup>1</sup>, Nicola Tamassia<sup>1</sup>, Luana Tomaitipinca<sup>1</sup>, Eleonora Russo<sup>1</sup>, Mattia Laffranchi<sup>1</sup>, Laura Tiberio<sup>1</sup>, Daniela Bosisio<sup>1</sup>, Giovanni Bernardini<sup>1</sup>, Giuseppe Sciumè<sup>1</sup>, Marc Parmentier<sup>2</sup>, Barbara Bottazzi<sup>1</sup>, Annalisa Del Prete<sup>1</sup>, Silvano Sozzani<sup>1</sup>** (*Italy, <sup>2</sup>Belgium*)
- P3.23** The long pentraxin PTX3 as an innate immunity marker of the association between mesenchymal stromal and cancer progression  
**Sarah Mapelli, Alessia Donato, Elena Magrini, Andrea Doni, Cecilia Garlanda** (*Italy*)

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**SIGNALING AND METABOLISM IN IMMUNE CELLS**

Poster walk, guided by **Gaia Codolo** and **Silvia Piconese**

- P4.1** Cross-talk between lipid and metal homeostasis regulates fitness of human B cells in leukemia  
**Federica Nardi, Anthea Di Rita, Laura Pezzella, Roberta Drago, Sara Ciofini, Laura Tinti, Vittoria Cicaloni, Laura Salvini, Danilo Licastro, Giuseppe Marotta, Alessandro Gozzetti, Monica Bocchia, Anna Kabanova** (*Italy*)
- P4.2** Cell-cell communication analysis: a new attractive weapon to investigate the immune cells ligand-receptor interplay in a tumor microenvironment  
**Alessia Donato, Sarah Mapelli, Domenico Supino, Joanna Mikulak, Domenico Mavilio, Cecilia Garlanda** (*Italy*)
- P4.3** Reduced G protein signaling despite impaired internalization and  $\beta$ -arrestin recruitment in patients carrying a novel CXCR4Leu317fsX3 mutation causing mild WHIM syndrome  
**Rajesh Kumar<sup>1</sup>, Samantha Milanese<sup>1</sup>, Martyna Szpakowska<sup>2</sup>, Laura Dotta<sup>1</sup>, Dario di Silvestre<sup>1</sup>, Mauro Giacomelli<sup>1</sup>, Manuela Benedito<sup>3</sup>, Joana Azevedo<sup>3</sup>, Alexandra Pereira<sup>3</sup>, Emilia Cortesao<sup>3</sup>, Alessandro Vacchini<sup>1</sup>, Alessandra Castagna<sup>1</sup>, Marinella Pinelli<sup>1</sup>, Daniele Moratto<sup>1</sup>, Massimo Locati<sup>1</sup>, Andy Chevigné<sup>2</sup>, Raffaele Badolato<sup>1</sup>, Elena Monica Borroni<sup>1</sup>** (*Italy*, <sup>2</sup>*Luxembourg*, <sup>3</sup>*Portugal*)
- P4.4** Role of titin isoforms in human lymphocyte physiology  
**Beatrice D'Ulivo, Lara Toffali, Carlo Laudanna** (*Italy*)
- P4.5** Increased expression of ShcC/Rai in tumor infiltrating lymphocytes in colorectal cancer: implication for inhibition of anti-tumor activity of T cells by the hypoxia-adenosinergic signaling axis  
**Tommaso Montecchi, Giulia Nannini, Chiara Cassioli, Sara Monaci, Antonella Naldini, Amedeo Amedei, Cosima Tatiana Baldari, Cristina Ulivieri** (*Italy*)
- P4.6** TLRs engagement dampens b-catenin phosphorylation and modifies the repertoire of splicing factors in CD4+ T cells  
**Maria Tredicine, Chiara Camponeschi, Mariagrazia Valentini, Marco Fidaleo, Camilla Moliterni, Anna Maria Stabile, Mario Rende, Francesco Ria, Gabriele Di Sante** (*Italy*)

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- P4.7** Induction of HIV-1 restriction factors upon CCL2 neutralization in primary human macrophages requires activation of NF- $\kappa$ B, JAK/STAT, and gp130 signaling  
**Iole Farina, Silvia Sozzi, Daniela Angela Covino, Laura Catapano, Francesca Spadaro, Serena Cecchetti, Cristina Purificato, Maria Cristina Gauzzi, Laura Fantuzzi** (*Italy*)
- P4.8** Lipopolysaccharides from gut microbiota: a new concept of endotoxins from the inside  
**Flaviana Di Lorenzo** (*Italy*)
- P4.9** The mutual interaction between human group IIA secreted phospholipase A2 and C1-inhibitor impairs their function  
**Anne Lise Ferrara<sup>1</sup>, Maria Bova<sup>1</sup>, Angelica Petraroli<sup>1</sup>, Daniela Marasco<sup>1</sup>, Christine Payré<sup>2</sup>, Francesco Palestra<sup>1</sup>, Renato Ciardi<sup>1</sup>, Ginevra Sarnacchiaro<sup>1</sup>, Sara Fortuna<sup>1</sup>, Gérard Lambeau<sup>2</sup>, Stefania Loffredo<sup>1</sup>** (*Italy, <sup>2</sup>France*)
- P4.10** Regulatory T cells capture iron through the transferrin receptor during physiological and tumor-associated expansion  
**Ilenia Pacella, Alessandra Pinzon Grimaldos, Alessandra Rossi, Gloria Tucci, Marta Zagaglioni, Elena Potenza, Valeria Pinna, Ivano Rotella, Ilenia Cammarata, Valerio Licursi, Valeria Cancila, Beatrice Belmonte, Claudio Tripodo, Giuseppe Pietropaolo, Chiara Di Censo, Giuseppe Sciumè, Giovanna Peruzzi, Ylenia Antonucci, Silvia Campello, Francesca Guerrieri, Valerio Iebba, Gianluca Terrin, Valerio De Peppo, Gian Luca Grazi, Vincenzo Barnaba, Silvia Piconese** (*Italy*)
- P4.11** ANGPTL3 deficiency associates with the expansion of regulatory T cells with reduced lipid content  
**Alessandra Pinzon Grimaldos, Ilenia Pacella, Simone Bini, Gloria Tucci, Alessia Di Costanzo, Ilenia Menicocci, Laura D'Erasmus, Marcello Arca, Silvia Piconese** (*Italy*)
- P4.12** Correlation between atrial cardiomyopathy and predictive biomarkers of cryptogenic stroke in primary and secondary prophylaxis: potential role of endothelial progenitor cells (EPCs) dysfunction  
**Vanessa Desantis, Luca Sgarra, Maria Assunta Potenza, Carmela Nacci, Antonio Giovanni Solimando, Sebastiano Cicco, Massimo Grimaldi, Angelo Vacca, Monica Montagnani** (*Italy*)

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- P4.13** Pathogenesis of insulin resistance in obesity: is the immunoreceptor CD300e a missing piece of the puzzle?  
**Sara Coletta, Michela Signo, Elisabetta Trevellin, Roberto Vettor, Gaia Codolo, Marina de Bernard** (*Italy*)
- P4.14** Immunity and nutritional status: pilot study of immunological function in undernourished children with cerebral palsy  
**Giusy De Rosa, Elena Scarpato, Claudio Procaccini, Claudia Russo, Sara Bruzzaniti, Maria Rosaria Serra, Maria Teresa Fioretti, Erasmo Miele, Annamaria Staiano, Giuseppe Matarese** (*Italy*)
- P4.15** ACKR2 regulates differentiation and metabolism of hematopoietic progenitor cells  
**Rachele Di Donato, Francesca Albano, Valeria Mollica Poeta, Ornella Bonavita, Simone Puccio, Giovanni Galletti, Alessandra Castagna, Enrico Lugli, Massimo Locati, Raffaella Bonecchi** (*Italy*)
- P4.16** Posttranscriptional regulation of airway epithelial responses by the RNA binding protein AUF-1  
**Ilaria Salvato<sup>1</sup>, Luca Ricciardi<sup>1</sup>, Maria Assunta Crescenzi<sup>1</sup>, Monica Vitale<sup>1</sup>, Assunta Sellitto<sup>1</sup>, Giorgio Giurato<sup>1</sup>, Domenico Memoli<sup>1</sup>, Jessica Dal Col<sup>1</sup>, Vincenzo Casolaro<sup>1,2</sup>, Gaetano Caramori<sup>1</sup>, Cristiana Stellato<sup>1,2</sup>** (*Italy, <sup>2</sup>USA*)

**POSTER LATE SUBMISSION**

Poster walk, guided by **Roberta Castriconi** and **Alessio Mazzone**

- PLS1** Correlation between vascular inflammation markers, diastolic dysfunction and cardiovascular risk in patients with Takayasu arteritis  
**Vanessa Desantis, Sebastiano Cicco, Antonio Vacca, Gerardo Cazzato, Antonio Giovanni Solimando, Cecilia Susca, Gabriele Brosolo, Cristina Catena, Aurelia Lamanuzzi, Iliana Saltarella, Maria Antonia Frassanito, Giuseppe Ingravallo, Roberto Ria, Monica Montagnani** (*Italy*)
- PLS2** PD-1 expression level identifies CD8+ TIL subsets with distinct phenotypic and functional properties in patients with metastatic melanoma  
**Melania Grottoli, Selene Ottonello, Francesco Spagnolo, Enrica Tanda, Matteo Mascherini, Nicola Solari, Francesco Cabiddu, Lorenzo Moretta, Maria Cristina Mingari, Gabriella Pietra** (*Italy*)
- PLS3** Adenovirus-based and mRNA-based COVID-19 vaccines differentially modify the platelet-immune crosstalk and platelet count homeostasis in healthy subjects.  
**Ludovica Lombardi, Davide Pallucci, Francesca Maiorca, Ramona Marrapodi, Simone Cesaroni, Noemi Scafa, Marcella Visentini, Stefania Basili, Lucia Stefanini** (*Italy*)

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- PLS4** Type III interferons induce pyroptosis in gut epithelial cells and delay tissue restitution upon acute intestinal injury  
**Benedetta Sposito<sup>1,2,3</sup>, Julien Mambu<sup>3</sup>, Katalynn Bugda Gwilt<sup>1,2</sup>, Lionel Spinelli<sup>3</sup>, Natalia Andreeva<sup>1</sup>, Franck Galland<sup>3</sup>, Philippe Naquet<sup>3</sup>, Vanessa Mitsialis<sup>1</sup>, Jay R. Thiagarajah<sup>1</sup>, Scott B. Snapper<sup>1</sup>, Ivan Zanoni<sup>1</sup>, Achille Broggi<sup>3</sup>** (<sup>1</sup>USA, <sup>2</sup>Italy, <sup>3</sup>France)
- PLS5** Modelling macrophages-glioblastoma cross-talk in tumor microenvironment  
**Federica Mornata<sup>1</sup>, Alessandra Maielli<sup>1</sup>, Haralampos Hatzikirou<sup>2</sup>, Friedrich Feuerhake<sup>3</sup>, Peter Raab<sup>3</sup>, Benedetta Savino<sup>1</sup>, Massimo Locati<sup>1</sup>** (<sup>1</sup>Italy, <sup>2</sup>United Arab Emirates, <sup>3</sup>Germany)
- PLS6** Prediction and study of the immunogenicity of new SARS-CoV-2 T HLA-A\*02:01 restricted epitopes  
**Iole Macchia, Alessandra Ciervo, Valentina La Sorsa, Martina Borghi, Irene Ruspantini, Valentina Durastanti, Maria Concetta Altavista, Silvia Taglieri, Francesca Urbani, Fabiola Mancini** (Italy)
- PLS7** CD66b-CD64dimCD115- cells in the human bone marrow represent neutrophil-committed progenitors  
**Giulia Finotti, Federica Calzetti, Francisco Miguel Angel Bianchetto Aguilera, Nicola Tamassia, Stefania Canè, Stefano Ugel, Marco A. Cassatella** (Italy)
- PLS8** A fine balance of IgG4 and interleukin-10 is required for a tolerogenic response in eosinophilic esophagitis  
**Ramaprabha Appanna, Domenico Gargano, Fabio De Bartolomeis, Alessandro Caputo, Antonio D'Antonio, Luca Ricciardi, Raffaella D'Auria, Laura Caiazza, Valeria Conti, Cristiana Stellato, Paola Iovino, Vincenzo Casolaro** (Italy)
- PLS9** cAMP/PKA controls expression of FoxP3 in inducible human regulatory T cells  
**Maria Teresa Lepore, Silvana Cassano, Sara Bruzzaniti, Claudia La Rocca, Clorinda Fusco, Fortunata Carbone, Claudio Procaccini, Antonio Porcellini, Veronica De Rosa, Mario Galgani, Giuseppe Matarese** (Italy)
- PLS10** Relevance of the macrophage functional properties in the pathogenesis of glioblastoma  
**Alessandra Maielli, Federica Mornata, Benedetta Savino, Massimo Locati** (Italy)
- PLS11** Awakening NK cell anti-tumor response in prostate cancer  
**Federica Portale, Marta Iovino, Nicolò Morina, Marta Pandini, Roberta Carriero, Piergiuseppe Colombo, Federico Simone Colombo, Clelia Peano, Javier Cibella, Paolo Kunderfranco, Massimo Lazzeri, Diletta Di Mitri** (Italy)

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- PLS12** Latent infection of resting and activated CD4+ T cells by HIV-1 pseudotyped with Env molecules carrying a heterologous gp41 C-terminal tail  
**Sara Virtuoso, Flavia Mancini, Massimo Campagna, Maria Rosaria Pavone Cossut, Paolo Monini** (*Italy*)
- PLS13** Antitumor prophylactic effect of chimeric virus-like particles as delivery system with tumor-associated antigen in a murine triple-negative breast cancer scheme  
**Brenda Katherine Nava García, Leticia Moreno Fierros, Ángel de Jesús Jiménez Chávez** (*Mexico*)
- PLS14** Epstein-Barr virus orchestrate the tumor microenvironment of Burkitt lymphoma  
**Maria Chiara Siciliano<sup>1</sup>, Salvatore Tornambè<sup>1</sup>, Marcello Del Corvo<sup>1</sup>, Massimo Granai<sup>2</sup>, Lucia Mundo<sup>3</sup>, Maria Rosaria Sapienza<sup>1</sup>, Felice Arcuri<sup>1</sup>, Virginia Mancini<sup>1</sup>, Raffaella Santi<sup>1</sup>, Gioia Di Stefano<sup>1</sup>, Teresa Marafioti<sup>4</sup>, German Ott<sup>2</sup>, Reiner Siebert<sup>2</sup>, Leticia Quintanilla Fend<sup>2</sup>, Falko Fend<sup>2</sup>, Stefano Pileri<sup>1</sup>, Lorenzo Leoncini<sup>1</sup>, Stefano Lazzi<sup>1</sup>** (<sup>1</sup>*Italy*, <sup>2</sup>*Germany*, <sup>3</sup>*Ireland*, <sup>4</sup>*United Kingdom*)
- PLS15** Programmed death receptor-1 expression pattern on cord blood NK cells  
**Silvia Pesce, Marco Greppi, Valentina Obino, Gianluca Ubezio, Vanessa Agostini, Alessandra Bo, Emanuela Marcenaro, Chiara Colletto** (*Italy*)
- PLS16** Transcriptional reprogramming of myeloid suppressor cells in NSCLC patients  
**Chiara Pandolfo, Francesca Maria Consonni, Giulia Soldà, Raffaele Iannuzzi, Clelia Peano, Gianluca Basso, Chiara Ali, Federico Simone Colombo, Arianna Marinello, Sabrina Rossi, Luca Toschi, Daniela Pistillo, Emanuele Voulaz, Giovanna Finocchiaro, Antonio Sica** (*Italy*)
- PLS17** Tumor-educated macrophages as a new cell therapy for spinal cord injury  
**Luana Binaschi<sup>1</sup>, Sissi Dolci<sup>1</sup>, Loris Mannino<sup>1</sup>, Alessandra Campanelli<sup>1</sup>, Emanuela Bottani<sup>1</sup>, Francesca Ciarpella<sup>1</sup>, Marzia Di Chio<sup>1</sup>, Elisa Setten<sup>1</sup>, Stefano Gianoli<sup>1</sup>, Alessandra Castagna<sup>1</sup>, Isabel Karkossa<sup>2</sup>, Kristin Schubert<sup>2</sup>, Giuseppe Busetto<sup>1</sup>, Alessia Amenta<sup>1</sup>, Patrizia Bossolasco<sup>1</sup>, Alex Pezzotta<sup>1</sup>, Anna Pistocchi<sup>1</sup>, Maria Teresa Scupoli<sup>1</sup>, Chiara Cavallini<sup>1</sup>, Nicolò Martinelli<sup>1</sup>, Silvia Ferretti<sup>1</sup>, Giulia Pruonto<sup>1</sup>, Giorgio Malpeli<sup>1</sup>, Federico Boschi<sup>1</sup>, Guido Francesco Fumagalli<sup>1</sup>, Massimo Locati<sup>1</sup>, Francesco Bifari<sup>1</sup>, Ilaria Decimo<sup>1</sup>** (<sup>1</sup>*Italy*, <sup>2</sup>*Germany*)
- PLS18** Monitoring of naturally acquired and vaccine-induced SARS-CoV-2 specific cellular immune responses  
**Michela Venturi, Dilek Ineck, Charlotte Halgreen, Bjarke Endel Hansen, Lise-lotte Brix** (*Denmark*)
- PLS19** Multi-omic characterization of T-cell populations at the single-cell level utilizing sensitive dCODE Dextramer® reagents on the BD Rhapsody™ single-cell analysis system  
**Valérie Bodemeyer, Kivin Jacobsen, Liselotte Brix** (*Denmark*)



**POSTER AREA  
WEDNESDAY MAY 25, 2022 - 13.30-14.30****IMMUNOMEDIATED DISEASES AND IMMUNOTHERAPY**Poster walk, guided by **Maria Rosaria Galdiero** and **Manolo Sambucci**

- P5.1** Exploiting a hyaluronan-based bioconjugate for the stimulation of effective and long-lasting anti-cancer immune responses: validation in therapeutic and preventive anti-HER2/neu breast cancer vaccination settings  
**Debora Carpanese, Valentina Rossi, Anna Dalla Pietà, Gaia Zuccolotto, Alessandro Penna, Isabella Monia Montagner, Antonio Rosato** (*Italy*)
- P5.2** Role of the iNAMPT/eNAMPT balance in aging-related inflammation in osteoarthritis  
**Mauro Passari, Tiziana Schioppa, Francesca Sozio, Barbara Durante, Chiara Pandolfo, Francesca Motta, Valentina Salvi, Ilaria Barbazza, Laura Tiberio, Daniela Bosisio, Micaela Fredi, Angela Tincani, Franco Franceschini, Silvano Sozzani, Antonio Sica, Annalisa Del Prete** (*Italy*)
- P5.3** The dipeptidyl peptidase 3 controls bacterial clearance and survival from *Klebsiella pneumoniae* infection  
**Amanda Facoetti, Elena Fontana, Ciro Menale, Dario Strina, Raffaella Bonecchi, Cecilia Garlanda, Cristina Sobacchi, Barbara Cassani** (*Italy*)
- P5.4** Activation of the complement system by targeted and untargeted nanoparticles: a comparative study between human and mouse serum  
**Sara Capolla<sup>1</sup>, Federico Colombo<sup>2</sup>, Luca De Maso<sup>1</sup>, Prisca Mauro<sup>1</sup>, Paolo Bertoncin<sup>1</sup>, Thilo Kähne<sup>2</sup>, Giuseppe Toffoli<sup>1</sup>, Paolo Macor<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Germany*)
- P5.5** Bifidobacteria improve immune tolerance in paediatric patients with cow's milk protein allergy  
**Caterina Strisciuglio, Alessandra Vitale, Francesco Perna, Federica Garziano, Pasquale Dolce, Teresa Micillo, Franca Oglio, Serena Vitale, Mara Creoli, Michele Miraglia del Giudice, Giuseppe Matarese, Carmen Gianfrani** (*Italy*)
- P5.6** Prognostic factors and natural history of non-IgE mediated gastrointestinal food allergy in the pediatric age: results from the first year follow-up of the NIGEFA Project  
**Laura Carucci, Pasqualina Capasso, Anna Luzzetti, Serena Coppola, Veronica Giglio, Rita Nocerino, Roberto Berni Canani** (*Italy*)
- P5.7** CD44 variant isoform 7 is over-expressed by cells from the CSF and is regulated by TLR2 in CD4+ cells during acute episodes of multiple sclerosis  
**Maria Tredicine, Chiara Camponeschi, Matteo Lucchini, Massimiliano Mirabella, Anna Maria Stabile, Mario Rende, Francesco Ria, Gabriele Di Sante** (*Italy*)

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- P5.8** Human Tr3-56 cells: exploring a novel immune regulatory cell subset in multiple sclerosis pathogenesis  
**Erica Piemonte, Maria Teresa Lepore, Sara Bruzzaniti, Gianmarco Abbadessa, Giuseppina Miele, Simona Bonavita, Giuseppe Matarese, Mario Galgani** (*Italy*)
- P5.9** Abatacept treatment in patients with IgG4-related disease shows benefit by acting on T follicular helper, T follicular regulatory and T regulatory cells  
**Adriana Stucchi, Federica Maspes, Matteo Filippini, Jasmin Mahajne, Tatiana Jofra, Claudia Minici, Gaia Mancuso, Marco Lanzillotta, Alessandro Aiuti, Maria Pia Cicalese, Giulia Di Colo, Lorenzo Dagna, Emanuel Della Torre, Georgia Fousteri** (*Italy*)
- P5.10** Effects of drugs on NKG2D expression by NK, NKT and CD8+ T lymphocytes treated in vitro  
**Martina Bonacini, Francesco Muratore, Giovanna Restuccia, Laura Albertazzi, Piera Zaldini, Luca Cimino, Rossana Colla, Alessandro Zerbini, Carlo Salvarani, Stefania Croci** (*Italy*)
- P5.11** Profibrotic effects of endothelin-1: relevance to the pathogenesis of systemic sclerosis  
**Giuseppe Argentino<sup>1</sup>, Elisa Tinazzi<sup>1</sup>, Alessandro Barbieri<sup>2</sup>, Ruggero Beri<sup>1</sup>, Caterina Bason<sup>1</sup>, Bianca Olivieri<sup>1</sup>, Claudio Lunardi<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P5.12** A novel serologic marker in seronegative RA using random peptide library  
**Caterina Bason<sup>1</sup>, Elisa Tinazzi<sup>1</sup>, Alessandro Barbieri<sup>2</sup>, Nicola Martinelli<sup>1</sup>, Bianca Olivieri<sup>1</sup>, Giuseppe Argentino<sup>1</sup>, Ruggero Beri<sup>1</sup>, Elena Bartoloni<sup>1</sup>, Roberto Gerli<sup>1</sup>, Antonio Puccetti<sup>1</sup>, Claudio Lunardi<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P5.13** CD44 isoforms distribute differentially in CNS areas during EAE  
**Chiara Camponeschi, Maria Tredicine, Maria Concetta Geloso, Davide Pirolli, Benedetta Righino, Camilla Moliterni, Maria Cristina De Rosa, Francesco Ria, Gabriele Di Sante** (*Italy*)
- P5.14** CSF1R: a new candidate gene for autoinflammatory disorders  
**Andrea Del Mastro, Alessandro Bresciani, Marco Laccetti, Alessandro Cannavale, Marina Tarsitano, Massimiliano Chetta, Matteo Della Monica, Francesco Palestra, Renato Ciardi** (*Italy*)
- P5.15** Liposome-based nanoparticles modulate macrophage and T cell regulatory and effector phenotypes in multiple sclerosis patients  
**Francesco Ria, Maria Tredicine, Noemi Poerio, Matteo Lucchini, Chiara Camponeschi, Massimiliano Mirabella, Alessandra Pistilli, Maurizio Fraziano, Gabriele Di Sante** (*Italy*)

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- P5.16** 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, Antonietta Liotti, Dario Di Silvestre, Claudio Procaccini, Salvatore De Simone, Clorinda Fusco, Giorgia Teresa Maniscalco, Ilaria Giusti, Vincenza Dolo, Giuseppe Matarese, Fabio Buttari, Diego Certonze, Paola De Candia, Veronica De Rosa** (*Italy*)
- P5.17** The interplay between HLA-B27 and ERAP1/ERAP2 favors the presentation of suboptimal viral antigens activating cross-reactive CD8+ T cells in patients with ankylosing spondylitis  
**Giorgia Paldino, Valentina Tedeschi, Valentina Proganò, Rosa Sorrentino, Maria Teresa Fiorillo** (*Italy*)
- P5.18** Role of the T2 family of extracellular ribonucleases (RNASET2) in inflammatory arthropathies  
**Mauro Passari, Francesca Sozio, Sara Scutera, Valentina Salvi, Tiziana Schioppa, Rosaria Sparti, Laura Tiberio, Daniela Bosisio, Francesco Acquati, Silvia Piantoni, Laura Andreoli, Silvano Sozzani, Tiziana Musso, Annalisa Del Prete** (*Italy*)
- P5.19** TLRs regulate alternative splicing of CD44 in strain and TLR-specific manner  
**Maria Tredicine, Chiara Camponeschi, Camilla Moliterni, Marco Fidaleo, Maria Foti, Gabriela Constantin, Francesco Ria, Gabriele Di Sante** (*Italy*)
- P5.20** Psoriasis-related miR203 activates NK cells by a complex pDC/monocyte/NK cell crosstalk  
**Valentina Salvi, Carolina Gaudenzi, Hoang Oanh Nguyen, Veronica Gianello, Helena Stabile, Angela Gismondi, Giovanni Zucchi, Silvano Sozzani, Daniela Bosisio** (*Italy*)
- P5.21** Predictive potential of the upper airway microbiome composition in hematological patients at risk for invasive fungal infections  
**Claudio Costantini, Emilia Nunzi, Angelica Spolzino, Melissa Palmieri, Giorgia Renga, Marilena Pariano, Francesco Merli, Luca Facchini, Antonio Spadea, Lorella Melillo, Katia Codeluppi, Francesco Marchesi, Gessica Marchesini, Gianpaolo Nadali, Giulia Dragonetti, Daniela Valente, Livio Pagano, Franco Aversa, Luigina Romani** (*Italy*)
- P5.22** Definition of the role of microRNA in the clinical variability observed in 22q11.2 deletion syndrome  
**Elisabetta Toriello, Giuliana Giardino, Antonio De Rosa, Antonietta Tarallo, Emilia Cirillo, Cosimo Abagnale, Francesca Cillo, Emma Coppola, Federico Habetswallner, Loredana Palamaro, Giancarlo Parenti, Davide Cacchiarelli, Claudio Pignata** (*Italy*)

**POSTER AREA**  
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- P5.23** Diving into inflammation: 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*)
- P5.24** Cytokine network involved in non-IgE-mediated gastrointestinal food allergy: results from NIGEFA Project  
**Laura Carucci, Laura Pisapia, Cristina Bruno, Anna Luzzetti, Pasqualina Capasso, Veronica Giglio, Rita Nocerino, Roberto Berni Canani, Lorella Paparo** (*Italy*)
- P5.25** Characterization of the cytokine profile of endothelial cells cultured onto dermal substitutes used for tissue bioengineering  
**Mariagiulia Spazzapan, Chiara Agostinis, Roman Vuerich, Andrea Balduit, Andrea Ferrari, Alessandro Mangogna, Giovanni Papa, Serena Zacchigna, Roberta Bulla** (*Italy*)
- P5.26** A co-culture model to study the effects of dental pulp stem cells on scar fibroblasts  
**Giada Zanini, Alessandra Pisciotta, Laura Bertoni, Lorenzo Luongo, Marcello Pinti, Pierantonio Bellini, Luigi Generali, Alessandra Marconi, Anna Vittoria Mattioli, Gianluca Carnevale, Milena Nasi** (*Italy*)
- P5.27** Immunomodulatory properties of characellide A on human peripheral blood mononuclear cells  
**Lucia Mutascio<sup>1</sup>, Simone Marcella<sup>1</sup>, Sam Afoullouss<sup>2</sup>, Olivier Thomas<sup>2</sup>, Louise Allcock<sup>2</sup>, Paul Murphy<sup>2</sup>, Francesco Palestra<sup>1</sup>, Renato Ciardi<sup>1</sup>, Stefania Loffredo<sup>1,2</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Ireland*)
- P5.28** The gut microbiota-immunity axis in amyotrophic lateral sclerosis: a role in deciphering disease heterogeneity?  
**Giulia Nannini, Elena Niccolai, Vincenzo Di Pilato, Simone Baldi, Edda Russo, Elisabetta Zucchi, Ilaria Martinelli, Marta Menicatti, Gianluca Bartolucci, Jessica Mandrioli, Amedeo Amedei** (*Italy*)
- P5.29** Emerging roles of the long pentraxin PTX3 at the host-pathogen interface in *Staphylococcus aureus*-dependent osteomyelitis  
**Raffaella Parente<sup>1</sup>, Valentina Possetti<sup>1</sup>, Maria Lucia Schiavone<sup>1</sup>, Ciro Menale<sup>1</sup>, Eleonora Palagano<sup>1</sup>, Danka Grčević<sup>2</sup>, Maša Filipović<sup>2</sup>, Barbara Bottazzi<sup>1</sup>, Elisabetta Campodoni<sup>1</sup>, Monica Sandri<sup>1</sup>, Anna Tampier<sup>1</sup>, Cristina Sobacchi<sup>1</sup>, Antonio Inforzato<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Croatia*)

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- P5.30** Immunoglobulin replacement therapy in patients with haematological malignancies during Covid-19 pandemic  
**Giuditta De Fazio, Mariangela Lisena, Carolina Marasco, Assunta Melaccio, Antonio Giovanni Solimando, Angelo Vacca, Roberto Ria** (*Italy*)
- P5.31** Altered B lymphocytes and NK cells in a patient with human papilloma virus-related disease due to an as-yet unidentified genetic defect  
**Margherita Doria<sup>1</sup>, Giusella M.F. Moscato<sup>1</sup>, Silvia Di Cesare<sup>1</sup>, Gigliola Di Matteo<sup>1</sup>, Mayla Sgrulletti<sup>1</sup>, Françoise Bachelier<sup>2</sup>, Viviana Marin-Esteban<sup>2</sup>, Viviana Moschese<sup>1</sup>** (*Italy, <sup>2</sup>France*)
- P5.32** Toll-like receptor 8 agonists improve NK cell function primarily targeting CD56brightCD16- subset  
**Irene Veneziani, Claudia Alicata, Andrea Pelosi, Nadine Landolina, Biancamaria Ricci, Valentina D'Oria, Anna Fagotti, Giovanni Scambia, Lorenzo Moretta, Enrico Maggi** (*Italy*)
- P5.33** Mitoxantrone in combination with concomitant TGF $\beta$  and PD-1 blockade remodels the tumor immune landscape, enhancing antitumor immunity in neuroblastoma  
**Valeria Lucarini, Ombretta Melaiu, Silvia D'Amico, Fabio Pastorino, Patrizia Tempora, Adele De Ninno, Luca Businaro, Mirco Ponzoni, Franco Locatelli, Doriana Fruci** (*Italy*)
- P5.34** PSMA-specific CAR-engineered T Cells for prostate cancer: CD28 outperforms combined CD28-41BB "super- stimulation"  
**Gaia Zuccolotto, Alessandro Penna, Isabella Monia Montagner, Debora Carpanese, Valentina Rossi, Antonio Rosato** (*Italy*)
- P5.35** In vitro functional activity of CARCIK-CD19 cells compared to unmodified CIK cells combined with bispecific antibody blinatumomab  
**Silvia Zaninelli, Silvia Panna, Irene Cattaneo, Carolina Cuofano, Elisa Gotti, Josée Golay, Martino Introna** (*Italy*)
- P5.36** Gut microbiota shift in melanoma patients undergoing immunotherapy is associated with clinical response  
**Angeli Dominique Macandog, Carlotta Catozzi, Ester Cassano, Mattia Ballerini, Gabriele Madonna, Marilena Capone, Sara Gandini, Marco Rasponi, Paolo Antonio, Pier Francesco Ferrucci, Teresa Manzo, Emilia Cocorocchio, Luigi Nezi** (*Italy*)
- P5.37** Mechanisms by which Prevotella commensals modulate the immune response in the bone marrow and impact disease progression in mice affected by multiple myeloma  
**Laura Lucia Cogrossi, Arianna Brevi, Matteo Grioni, Roberto Ferrarese, Virginia Amato, Nicasio Mancini, Matteo Bellone** (*Italy*)

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- P5.38** PD-L1+neutrophils as novel biomarkers for stage IV melanoma patients treated with nivolumab  
**Leonardo Cristinziano, Luca Modestino, Marilena Capone, Gabriele Madonna, Domenico Mallardo, Diana Giannarelli, Grazia D'Angelo, Anne Lise Ferrara, Stefania Loffredo, Vito Vanella, Lucia Festino, Paolo Antonio, Maria Rosaria Galdiero** (*Italy*)
- P5.39** Continuous sensing of IFN $\alpha$  by liver sinusoidal endothelial cells shapes a vascular antimetastatic barrier  
**Lorena Maria Ferreira, Blanca Alvarez-Moya, Ngoc Lan Tran, Valentina Buttiglione, Barbara Ferrini, Paola Zordan, Andrea Monestiroli, Claudio Fagioli, Eugenia Bezzecchi, Giulia Maria Scotti, Antonio Esposito, Riccardo Leone, Andrea Brendolan, Luca G. Guidotti, Giovanni Sitia** (*Italy*)
- P5.40** Circulating extracellular vesicles as biomarkers of response for immune-checkpoint inhibitors in advanced non small cell lung cancer  
**Patrizia Ghidotti, Diego Signorelli, Claudia Proto, Valentina Capizzuto, Francesca Pontis, Ilaria Petrarola, Gabriella Sozzi, Marina Chiara Garassino, Elena Jachetti, Orazio Fortunato** (*Italy*)
- P5.41** Oncolytic virotherapy as an immunotherapeutic strategy for the treatment of non-small cell lung cancer and other solid tumors  
**Federica Riccardo, Giuseppina Barutello, Antonella Iacoviello, Laura Conti, Federica Cavallo, Gaetano Donofrio, Elena Quaglino** (*Italy*)
- P5.42** Induction of anti-tumor response by filamentous bacteriophage targeting  
**Roberta Manco, Rossella Sartorius, Luciana D'Apice, Maria Trovato, Piergiuseppe De Berardinis** (*Italy*)
- P5.43** A chimeric human/dog CSPG4 DNA vaccine reveals potential therapeutic effects for the treatment of melanoma: a veterinary trial  
**Federica Riccardo<sup>1</sup>, Lidia Tarone<sup>1</sup>, Mariateresa Camerino<sup>1</sup>, Davide Giacobino<sup>1</sup>, Selina Iussich<sup>1</sup>, Giuseppina Barutello<sup>1</sup>, Maddalena Arigoni<sup>1</sup>, Laura Conti<sup>1</sup>, Elisabetta Bolli<sup>1</sup>, Irene Merighi<sup>1</sup>, Emanuela Morello<sup>1</sup>, Elena Quaglino<sup>1</sup>, Soldano Ferrone<sup>2</sup>, Paolo Buracco<sup>1</sup>, Federica Cavallo<sup>1</sup>** (*Italy, <sup>2</sup>USA*)
- P5.44** Characterization of T-cell immunity and CD99 immunotherapy in FLT3-ITDmutated AML  
**Serena Travaglini, Tiziana Ottone, Manolo Sambucci, Valentina Fiori, Daniela F. Angelini, Sabrina Dominici, Maria Antonietta Irno Consalvo, Jessica Evangelista, Mariadomenica Divona, Serena Lavorgna, Eugenia Guida, Marco De Bardi, Francesco Marchesi, Adriano Venditti, Francesco Buccisano, William Arcese, Luca Battistini, Maria Teresa Voso** (*Italy*)

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- P5.45** Investigating the potential of anti-CSPG4 immune-targeting for the treatment of osteosarcoma: a comparative study  
**Lidia Tarone<sup>1</sup>, Davide Giacobino<sup>1</sup>, Mariateresa Camerino<sup>1</sup>, Maddalena Arigoni<sup>1</sup>, Selina Iussich<sup>1</sup>, Soldano Ferrone<sup>2</sup>, Emanuela Morello<sup>1</sup>, Paolo Buracco<sup>3</sup>, Federica Cavallo<sup>1</sup>, Federica Riccardo<sup>1</sup>** (<sup>1</sup>Italy, <sup>2</sup>USA)
- P5.46** Investigation of the intestinal microbiota composition and its association with gut mucosal immune response in eosinophilic granulomatosis with polyangiitis  
**Elena Niccolai, Giacomo Emmi, Alessandra Bettiol, Leandro Di Gloria, Elena Silvestri, Giulia Nannini, Maria Letizia Urban, Irene Mattioli, Simone Baldi, Augusto Vaglio, Domenico Prisco, Matteo Ramazzotti, Amedeo Amedei** (Italy)
- P5.47** The methylation status of TNF- $\alpha$ , IL-6 and IL-10 promoters and the regulation of these gene expressions in patients with multiple sclerosis  
**Erica Costantini, Valentina Gatta, Lisa Aielli, Federica Serra, Fani Konstantinidou, Marcella Reale** (Italy)
- P5.48** Nanotechnology and neuroinflammation: impact of graphene nanoflakes on experimental autoimmune encephalomyelitis  
**Roberta Amoriello<sup>1</sup>, Giuseppe Di Mauro<sup>1</sup>, Alberto Carnasciali<sup>1</sup>, Kostas Kostarelos<sup>2</sup>, Laura Ballerini<sup>1</sup>, Clara Ballerini<sup>1</sup>** (<sup>1</sup>Italy, <sup>2</sup>United Kingdom)
- P5.49** S100B protein as a therapeutic target in multiple sclerosis: the S100B inhibitor arundic acid protects from chronic experimental autoimmune encephalomyelitis  
**Maria De Carluccio, Chiara Camponeschi, Susanna Amadio, Elisabetta Clementi, Beatrice Sampaolese, Cinzia Volontè, Maria Tredicine, Francesco Ria, Fabrizio Michetti, Gabriele Di Sante** (Italy)
- P5.50** A humanized model of blood brain barrier to investigate immune cells infiltration in multiple sclerosis: toward a personalized medicine approach  
**Margherita Ravanelli, Marco De Luca, Gianluca Basso, Elena Campo, Giuseppe Liberatore, Francesca Calcaterra, Silvia Della Bella, Domenico Mavilio, Eduardo Nobile-Orazio, Enrico Lugli, Michela Matteoli, Eliana Lauranzano** (Italy)
- P5.51** Clinical features and burden of genital attacks in hereditary angioedema: results of a patient survey  
**Iliaria Mormile, Maria Bova, Antonio Cocchiario, Stefania Loffredo, Francesca Wanda Rossi, Francescopaolo Granata, Giuseppe Spadaro, Amato de Paulis, Angelica Petraroli** (Italy)

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- P5.52** Impaired mucosal-associated invariant T cells recovery and function in pediatric patients following allo-HCT  
**Sara Flamini, Federica Galaverna, Emilia Boccieri, Carmen Dolores De Luca, Francesca Benini, Francesco Quagliarella, Marco Rosichini, Marialuigia Catanoso, Antonella Cardinale, Gabriele Volpe, Angela Pitisci, Marianna Coccetti, Roberto Carta, Francesca Del Bufalo, Valentina Bertaina, Marco Becilli, Daria Pagliara, Mattia Algeri, Pietro Merli, Enrico Velardi, Franco Locatelli (Italy)**
- P5.53** Visual high-throughput and high-content cell-based assays for the identification of functional monoclonal antibodies against *Neisseria gonorrhoeae*  
**Fabiola Vacca, Dario Cardamone, Samuele Stazzoni, Emanuele Roscioli, Marco Troisi, Valentina Abbiento, Pardis Mokhtary, Monica Fabbrini, Oretta Finco, Isabel Delany, Alfredo Pezzicoli, Mariagrazia Pizza, Claudia Sala, Emanuele Andreano, Rino Rappuoli (Italy)**
- P5.54** *Haemophilus parasuis* (*Glaesserella parasuis*) as a potential driver of molecular mimicry and inflammation in rheumatoid arthritis  
**Gabriele Di Sante<sup>1</sup>, Elisa Gremese<sup>1</sup>, Barbara Tulusso<sup>1</sup>, Clara Di Mario<sup>13</sup>, Stefano Alivernini<sup>1</sup>, Maria Tredicine<sup>1</sup>, Ivana Palucci<sup>1</sup>, Chiara Camponeschi<sup>1</sup>, Andrea Gambotto<sup>2</sup>, Francesco Ria<sup>1</sup>, Gianfranco Ferraccioli<sup>1</sup> (<sup>1</sup>Italy, <sup>2</sup>USA)**
- P5.55** Interferon beta-1a treatment promotes SARS-CoV-2 mRNA vaccine response in multiple sclerosis subjects  
**Antonietta Liotti, Giorgia Teresa Maniscalco, Valentino Manzo, Anne Lise Ferrara, Alessandro Perrella, Maria Elena Di Battista, Simona Salvatore, Daniela Graziano, Assunta Viola, Gerardino Amato, Ornella Moreggia, Daniele Di Giulio Cesare, Stefano Barbato, Giovanna Servillo, Katia Longo, Mario Di Giovanni, Barbara Scarpati, Simona Maria Muggianu, Giuseppe Longo, Giuseppe Russo, Vincenzo Andreone, Veronica De Rosa (Italy)**
- P5.56** Regulatory dendritic cells are reduced in celiac disease patients with active disease  
**Virginia Bassi, Giada Amodio, Paola Sgaramella, Marina Di Stefano, Graziano Barera, Lorella Fanti, Serena Vitale, Ilaria Mottola, Renata Auricchio, Riccardo Troncone, Chiara Ziparo, Giovanni Di Nardo, Laura Passerini, Carmen Gianfrani, Silvia Gregori (Italy)**



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**WEDNESDAY MAY 25, 2022 - 13.30-14.30****INNATE LYMPHOID CELLS**Poster walk, guided by **Mattia Laffranchi** and **Irene Mattiola**

- P6.1** MicroRNA analysis of natural killer cell-derived exosomes: the microRNA let-7b-5p is enriched in exosomes and participates in their anti-tumor effects against pancreatic cancer cells  
**Anna Laura Di Pace, Andrea Pelosi, Piera Filomena Fiore, Nicola Tumino, Francesca Besi, Paola Vacca, Lorenzo Moretta** (*Italy*)
- P6.2** ILC1-like cell expansion is driven by CXCR3-dependent macrophage accumulation in colorectal cancer liver metastasis  
**Eleonora Russo, Luana Tomaipitnca, Chiara Di Censo, Gianluca Scarno, Giovanna Peruzzi, Valerio Licursi, Giuseppe Sciumè, Angela Santoni, Giovanni Bernardini** (*Italy*)
- P6.3** KIR variation in Iranians combines high haplotype and allotype diversity with an abundance of functional inhibitory receptors  
**Claudia Alicata<sup>1</sup>, Elham Ashouri<sup>2</sup>, Neda Nemat-Gorgani<sup>2</sup>, Lisbeth A. Guethlein<sup>2</sup>, Wesley M. Marin<sup>2</sup>, Sudan Tao<sup>2</sup>, Lorenzo Moretta<sup>1</sup>, Jill A. Hollenbach<sup>2</sup>, John Trowsdale<sup>3</sup>, James A. Traherne<sup>3</sup>, Abbas Ghaderi<sup>4</sup>, Peter Parham<sup>2</sup>, Paul J. Norman<sup>2</sup>** (*<sup>1</sup>Italy, <sup>2</sup>USA, <sup>3</sup>United Kingdom, <sup>4</sup>Iran*)
- P6.4** Murine natural killer cells education - Cell biological and molecular correlates  
**Lucia Carmela Passacatini<sup>1</sup>, Klas Kärre<sup>2</sup>, Maria Johansson<sup>2</sup>, Carolina Muscoli<sup>1</sup>, Vincenzo Mollace<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Sweden*)
- P6.5** Phenotypic characterization of innate lymphoid cells in myelodysplastic syndromes: towards the comprehension of their role in disease etiology and prognosis  
**Michela Calvi, Clara Di Vito, Alessandro Frigo, Nicolò Coianiz, Marta Ubezio, Alessia Campagna, Antonio Russo, Matteo Giovanni Della Porta, Domenico Mavilio** (*Italy*)
- P6.6** The twisted road to become a mature natural killer cell: development of an autologous system mimicking the bone marrow niche to study their ontogenesis  
**Alessandro Frigo, Sara Terzoli, Michela Calvi, Nicolò Coianiz, Mattia Loppini, Clara Di Vito, Domenico Mavilio** (*Italy*)
- P6.7** Proteomic characterization of human CMV-driven adaptive NK cells  
**Chiara Giordano, Andrea Petretto, Genny Del Zotto, Francesca Antonini, Chiara Lavarello, Martina Bartolucci, Letizia Muccio, Pierluigi Mauri, Dario Di Silvestre, Simona Sivori, Mariella Della Chiesa** (*Italy*)

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- P6.8** Dissection of heterogeneity in tumor-infiltrating NK cells from CRC patients  
**Valentina Obino<sup>1</sup>, Chiara Setti<sup>1</sup>, Chiara Giordano<sup>1</sup>, Simona Carlomagno<sup>1</sup>, Elisa Ferretti<sup>1</sup>, Marco Greppi<sup>1</sup>, Silvia Pesce<sup>1</sup>, Agnese Solari<sup>1</sup>, Letizia Muccio<sup>1</sup>, Tania Buttiron Webber<sup>1</sup>, Laura Paleari<sup>1</sup>, Matteo Clavarezza<sup>1</sup>, Andrea Barberis<sup>1</sup>, Marco Filairo<sup>1</sup>, Nicoletta Provinciali<sup>1</sup>, Mariangela Rutigliani<sup>1</sup>, Emanuela Marcenaro<sup>1</sup>, Mariella Della Chiesa<sup>1</sup>, Andrea De Censi<sup>1,2</sup>, Simona Sivori<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>United Kingdom*)
- P6.9** Phenotypic and functional characterization of new circulating human natural killer/ type 1 innate lymphoid populations  
**Silvia Ruggeri, Cinzia Fionda, Andrea Kosta, Giovanna Peruzzi, Giuseppe Sciumé, Angela Santoni, Angela Gismondi, Helena Stabile** (*Italy*)
- P6.10** Evaluation of the heterogeneity of NK cell population in PDAC patients  
**Chiara Setti<sup>1</sup>, Simona Carlomagno<sup>1</sup>, Elisa Ferretti<sup>1</sup>, Valentina Obino<sup>1</sup>, Marco Greppi<sup>1</sup>, Silvia Pesce<sup>1</sup>, Chiara Giordano<sup>1</sup>, Agnese Solari<sup>1</sup>, Tania Buttiron Webber<sup>1</sup>, Laura Paleari<sup>1</sup>, Alberto Gozza<sup>1</sup>, Andrea Barberis<sup>1</sup>, Marco Filairo<sup>1</sup>, Nicoletta Provinciali<sup>1</sup>, Mariangela Rutigliani<sup>1</sup>, Mariella Della Chiesa<sup>1</sup>, Emanuela Marcenaro<sup>1</sup>, Andrea De Censi<sup>1,2</sup>, Simona Sivori<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>United Kingdom*)
- P6.11** CD19-targeting NK cell engagers enhance NK-cell mediated killing of pediatric B-cell precursor acute lymphoblastic leukemia  
**Natalia Colomar-Carando<sup>1</sup>, Laurent Gauthier<sup>2</sup>, Pietro Merli<sup>1</sup>, Fabrizio Loiacono<sup>1</sup>, Paolo Canevali<sup>1</sup>, Michela Falco<sup>1</sup>, Maria Cristina Mingari<sup>1</sup>, Franco Locatelli<sup>1</sup>, Eric Vivier<sup>2</sup>, Raffaella Meazza<sup>1</sup>, Daniela Pende<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>France*)

**IMMUNORESPONSE TO SARS-CoV2 AND COVID 19**

Poster walk, guided by **Francesco Liotta** and **Alessio Mazzoni**

- P7.1** A recombinant bio-HDL (CER-001) can prevent SARS-CoV-2-induced renal dysfunction by restoring SR-BI signalling  
**Rossana Franzin<sup>1</sup>, Alessandra Stasi<sup>1</sup>, Marco Fiorentino<sup>1</sup>, Ronald Barbaras<sup>2</sup>, Connie Peyrottes<sup>2</sup>, Cyrille Tupin<sup>2</sup>, Paola Pontrelli<sup>1</sup>, Loreto Gesualdo<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>France*)
- P7.2** How memory B cells cope with SARS-CoV-2 and its variants  
**Eva Piano Mortari, Rita Carsetti** (*Italy*)
- P7.3** Possible role of CCRL2 single nucleotide polymorphisms in susceptibility to SARS-CoV-2 lung infection  
**Arianna Piserà<sup>1</sup>, Mattia Laffranchi<sup>1</sup>, Jean-Yves Springael<sup>2</sup>, Arianna Migliorini<sup>1</sup>, Domenico Raimondo<sup>1</sup>, Annalisa Del Prete<sup>1</sup>, Marc Parmentier<sup>1</sup>, Silvano Sozzani<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>Belgium*)

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- P7.4** Clinical and immunological features of SARS-CoV-2 breakthrough infections requiring hospitalization  
**Giulia Lamacchia, Alessio Mazzoni, Anna Vanni, Laura Maggi, Manuela Capone, Lorenzo Salvati, Alberto Carnasciali, Parham Farahvachi, Francesco Liotta, Lorenzo Cosmi, Benedetta Peruzzi, Sara Bencini, Alessandro Bartoloni, Michele Spinicci, Seble Tekle Kiros, Francesco Annunziato** (*Italy*)
- P7.5** Exploring the mechanisms underpinning the effect of biological therapies on SARS-CoV-2 susceptibility in inflammatory bowel disease (IBD) patients  
**Laura Francesca Pisani, Silvia Mola, Giorgia Crespi, Flavio Caprioli, Maria Laura Annunziata, Marcello Manfredi, Luca Pastorelli, Chiara Porta** (*Italy*)
- P7.6** Mesothelial cells modulate the proinflammatory/profibrotic response during SARS-CoV-2 infection  
**Flavia Trionfetti, Giulia Matusali, Veronica Bordoni, Roberta Nardacci, Laura Falasca, Daniele Colombo, Michela Terri, Claudia Montaldo, Concetta Castilletti, Davide Mariotti, Franca Del Nonno, Maria Rosaria Capobianchi, Chiara Agrati, Marco Tripodi, Raffaele Strippoli** (*Italy*)
- P7.7** Longitudinal single-cell analysis reveals SARS-CoV-2 monocyte infection: a new route defining COVID-19 severity  
**Roberta Angioni<sup>1</sup>, Ricardo Sanchez-Rodriguez<sup>1</sup>, Fabio Munari<sup>1</sup>, Nicolò Caporale<sup>1</sup>, Francesco Zonta<sup>2</sup>, Emanuele Villa<sup>1</sup>, Barbara Molon<sup>1</sup>, Giuseppe Testa<sup>1</sup>, Antonella Viola<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>China*)
- P7.8** The long Pentraxin PTX3 is a prognostic biomarker of bacterial or fungal co-infection in COVID-19 patients  
**Francesco Scavello<sup>1</sup>, Emanuele Nappi<sup>1</sup>, Monica Dambra<sup>1</sup>, Marina Sironi<sup>1</sup>, Roberto Leone<sup>1</sup>, Paola Morelli<sup>1</sup>, Federica Tordato<sup>1</sup>, Barbara Bottazzi<sup>1</sup>, Alberto Mantovani<sup>1,2</sup>, Cecilia Garlanda<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>United Kingdom*)
- P7.9** A rapid and simple multiparameter assay to quantify spike-specific CD4 and CD8 T cells after SARS-CoV-2 vaccination: a preliminary report  
**Mojtaba Shekarkar Azgomi, Marco Pio La Manna, Giusto Davide Badami, Paolo Ragonese, Antonino Trizzino, Francesco Dieli, Nadia Caccamo** (*Italy*)
- P7.10** Statins inhibit pro-inflammatory Vδ2+ T cells in COVID-19 patients  
**Anna Maria Corsale, Marta Di Simone, Carmela Picone, Elena Lo Presti, Nicola Scichilone, Lydia Giannitrapani, Francesco Dieli, Serena Meraviglia** (*Italy*)
- P7.11** CSF1R defines the mononuclear phagocyte system lineage in human blood in health and COVID-19  
**Federica Orsenigo<sup>1,2</sup>, Theo Combes<sup>2</sup>, Alexander Stewart<sup>2</sup>, Jeewaka Mendis<sup>2</sup>, Deborah Dunn-Walters<sup>2</sup>, Simon Gordon<sup>2,3</sup>, Fernando Martinez<sup>2</sup>** (*<sup>1</sup>Italy, <sup>2</sup>United Kingdom, <sup>3</sup>Taiwan*)

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- P7.12** A cohort study comparing B-, T-cell and innate responses induced by mRNA-based anti-SARS-CoV-2 vaccines in fragile subjects with impaired immune system  
**Andrea Del Mastro, Stefania Picascia, Luciana D'Apice, Assunta Viola, Rosa Peluso, Ferdinando Riccardi, Alessandra Picardi, Olga Credendino, Daniela Melillo, Paola Italiani, Piergiuseppe De Berardinis, Marco Laccetti, Giovanna Del Pozzo, Carmen Gianfrani** (*Italy*)
- P7.13** Persistence of SARS-CoV-2-specific B and T memory responses after vaccination with the BNT162b2 mRNA vaccine  
**Annalisa Ciabattini, Gabiria Pastore, Fabio Fiorino, Jacopo Polvere, Elena Pettini, Simone Lucchesi, Francesca Montagnani, Donata Medaglini** (*Italy*)
- P7.14** A third dose of mRNA-1273 vaccine improves SARS-CoV-2 humoral and B cell responses in hematopoietic cell transplantation recipients with low antibody response after 2 doses  
**Elena Pettini, Annalisa Ciabattini, Gabiria Pastore, Jacopo Polvere, Simone Lucchesi, Fabio Fiorino, Francesca Montagnani, Alessandro Bucalossi, Monica Tozzi, Giuseppe Marotta, Donata Medaglini** (*Italy*)
- P7.15** COVID-19 vaccine mRNA BNT162b2 elicits human antibody response in milk of breastfeeding women  
**Evelina La Civita, Michele Cennamo, Lia Conte, Rosa Sirica, Federica Aiello, Gennaro Esposito, Valentina Gargiulo, Giuseppe M. Maruotti, Laura Sarno, Maurizio Guida, Giuseppe Portella, Daniela Terracciano** (*Italy*)
- P7.16** Evaluation of the QuantiFERON SARS-CoV-2 Interferon- $\gamma$  (INF- $\gamma$ ) release assay in two cohort of BNT162b vaccinated fragile patients  
**Sarah Di Somma, Evelina La Civita, Michele Cennamo, Paolo Romano, Stefano Brusa, Mariano Fiorenza, Luca Gentile, Lucia Stanziola, Enza Zaccchia, Rosa Sirica, Lia Conte, Giuseppe Spadaro, Rosa Carrano, Stefania Loffredo, Daniela Terracciano, Giuseppe Portella** (*Italy*)
- P7.17** SARS-CoV-2 lysate stimulation causes an elevated release of platelet-like particles from MEG-01 megakaryoblastic cell line  
**Valentina Lopardo, Francesco Montella, Federica Guarracino, Gianluigi Franci, Carla Zannella, Annibale Alessandro Puca, Elena Ciaglia** (*Italy*)
- P7.18** Immune responses during COVID-19  
**Manolo Sambucci, Gisella Guerrera, Francesca Gargano, Sharon Eleuteri, Mario Picozza, Luca Battistini, Giovanna Borsellino** (*Italy*)

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**MYELOID CELLS**Poster walk, guided by **Gaia Codolo** and **Eleonora Timperi**

- P8.1** Transcriptomic and proteomic analysis of slan+ and slan- monocytes subsets  
**Francisco Miguel Angel Bianchetto Aguilera, Nicola Tamassia, Giulia Finotti, Elisa Gardiman, Federica Calzetti, Alessio Grimaldi, Vincenzo Barnaba, Claudia Montaldo, Marco Tripodi, Marco Cassatella** (*Italy*)
- P8.2** Inflammatory type 2 conventional dendritic cells are reprogrammed by tryptophan metabolite L-kynurenine in a model of multiple sclerosis  
**Giulia Mencarelli<sup>1</sup>, Doriana Ricciuti<sup>1</sup>, Giulia Scalisi<sup>1</sup>, Eleonora Padiglioni<sup>1</sup>, Benedetta Pieroni<sup>1</sup>, Giorgia Manni<sup>1</sup>, Kenneth M. Murphy<sup>2</sup>, Marco Gargaro<sup>1</sup>, Francesca Fallarino<sup>1</sup>** (*<sup>1</sup>Italy, <sup>2</sup>USA*)
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**Doriana Ricciuti, Giorgia Manni, Marco Gargaro, Giulia Scalisi, Giulia Mencarelli, Eleonora Padiglioni, Benedetta Pieroni, Ivan Monteleone, Paolo Puccetti, Francesca Fallarino** (*Italy*)

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- P8.10** Role of danger and microbial signals in neutrophil subpopulations recruitment during infection  
**Giulia Stucchi<sup>1</sup>, Laura Marongiu<sup>1</sup>, Gaia Cremascoli<sup>1</sup>, Irene Artuso<sup>1</sup>, Alessandra Martorana<sup>1</sup>, Francesca Mingozi<sup>1</sup>, Ivan Orlandi<sup>1</sup>, Marina Vai<sup>1</sup>, Alessandra Polissi<sup>1</sup>, Ivan Zanoni<sup>2</sup>, Francesca Granucci<sup>1</sup>** (*Italy*, <sup>2</sup>*USA*)



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- P8.11** Transcriptomic characterization of human CD34+ and CD34dim/- neutrophil-committed progenitors (NCPs)  
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IS = Industry Symposium; KL = Keynote Lecture; RT = Roundtable; P = Poster, PLS = Poster Late Submission; PS = Plenary Symposium; W = Workshop

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