



Società Italiana di Immunologia
Immunologia Clinica e Allergologia

June 17-20, 2025

PERUGIA

SIICA 2025

XV

National Congress

PROGRAMME



Scientific Secretariat

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Organizing Secretariat

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UNDER THE PATRONAGE OF



June 17-20, 2025

PERUGIA

SIICA 2025

XV

National Congress

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GENERAL INFORMATION

CONGRESS VENUE

17 June

Opening Ceremony Auditorium S. Francesco al Ponte

18-20 June

Hotel Giò - Via Ruggero D'Andreatto, 19, 06124 Perugia PG

REGISTRATION DESK

The Organizing Secretariat desk will be open according to the following schedule:

Tuesday, June 17	13:00-15:30 c/o Auditorium San Francesco al Ponte
Wednesday, June 18	08:00-19:00 c/o Hotel Giò
Thursday, June 19	08:00-19:00 c/o Hotel Giò
Friday, June 20	08:00-14:00 c/o Hotel Giò

SIICA SECRETARIAT

The SIICA Secretariat desk is located close to the Registration Desk in both locations.

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 BREAK - EXHIBITION AREA

Coffee breaks in the Exhibition Area are available to all regularly registered participants at the times indicated in the program.

LUNCH

For those who wish to attend the corporate symposia, a **box lunch** will be offered by the sponsoring company, containing one sandwich, one stuffed omelette roll, fruit, dessert, and water. Alternatively, a buffet lunch will be available in the breakfast room/restaurant at a cost of **€ 20,00**, including two pasta dishes, a selection of seasonal salads, mineral water, wine, and coffee.

GENERAL INFORMATION**REGISTRATION FEES ON SITE** (are in Euro - VAT 22% included)

Senior Member SIICA*	€ 290,00
Junior Member SIICA Under 35 **	€ 150,00
Non Member SIICA	€ 450,00
Non Member SIICA Under 35	€ 220,00

* 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 up-loaded in the on-line platform directly (pdf format is required) during the registration process.

*** Copy of valid document (ID or passport) to certify the date of birth is mandatory to be up-loaded in the on-line platform directly (pdf format is required) during the registration process.

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

Congress registration fee includes:

- Access to all scientific sessions
- Access to the exhibition area
- Coffee break - Exhibition areas
- Welcome cocktail
- Congress kit and name badge
- Certificate of attendance
- Abstracts (digital)

LANGUAGE

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



GENERAL INFORMATION

SOCIAL EVENTS

Opening Ceremony and Welcome Cocktail

The Opening Ceremony is scheduled on Tuesday, **June 17, at 18:00** at San Francesco al Ponte. Participation is included in the Congress registration fee. The welcome cocktail will be at the end of the ceremony in the same location.

Social Dinner

The Social Dinner is scheduled on Thursday, **June 19, at 20:30** at the “Chiostro del Capitolo” of Perugia, located in Piazza IV Novembre.

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

The prices are:

JUNIOR SIICA Faculty Member	€ 45,00
JUNIOR SIICA Member	€ 45,00
SENIOR SIICA Faculty Member	€ 60,00
SENIOR SIICA Member	€ 60,00
Non Member JUNIOR & SENIOR	€ 65,00

Pre-booked tickets are included in the personal registration kit. The dress code for this evening is business informal.

SCIENTIFIC INFORMATION**E - POSTER SESSIONS**

Posters are displayed in 4 monitors in the Exhibition Area located in the Foyer of the Plenary Room.

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

ABSTRACT BOOK

The abstracts accepted as Oral Presentations and Posters are published on the congress website only (www.siica.it).

SIICA GENERAL ASSEMBLY

SIICA General Assembly is scheduled on **Thursday June 19, at 18:35** in the Plenary Room.

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.



TUESDAY, JUNE 17, 2025

AUDITORIUM SAN FRANCESCO AL PRATO

13:00-15:30	Registration of participants
15:30-17:10	JOINT SYMPOSIUM SIICA-SIAAIC The role of the immunologist in epithelial barrier dysfunction
17:10-18:00	EFIS Lecture - Keynote 1
18:00-19:00	Opening Ceremony

WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

TRUMPET 1

TRUMPET 2

08:30-09:30	WS1 Tumor immunology 1	WS2 Immune response to pathogens 1	WS3 Errors of immunity
09:30-10:15	Keynote Lecture 2		
10:15-10:45	Technological Advancements Symposium		
10:45-11:15	<i>Coffee break</i>		
11:15-12:55	JOINT SYMPOSIUM SIICA-ImmuniTA Human inborn errors of immunity		
13:00-13:30		Industry Workshop Lunch Beckman Coulter	
13:30-14:30	Poster Session 1		
14:30-15:30	WS4 Innate immunity	WS5 Immuno therapy	WS6 Vaccines
15:30-16:30	JF Symposium Rising stars in immunology		
16:30-17:00	<i>Coffee break</i>		
17:00-18:40	Decoding myeloid diversity		

June 17-20, 2025
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THURSDAY, JUNE 19, 2025

	PLENARIA HOTEL GIÒ	TRUMPET 1	TRUMPET 2
08:30-09:30	WS7 Tumor immunology 2	WS8 Immune response to pathogens 2	WS9 Metabolism
09:30-10:00	Technological Advancements Symposium		
10:00-11:00	Diverse Paths and Inspirations in Science		
11:00-11:30	Coffee break		
11:30-13:10	Non-conventional cell-to-cell communication and immune regulation		
13:10-13:40		Industry Workshop Lunch BD Biosciences	
13:40-14:40	Poster Session 2		
14:40-16:20	Breaking news on T cell functions		
16:20-16:50	Coffee break		
16:50-17:50	WS10 T and B cells	WS11 Mucosal immunity	WS12 Translational immunology
17:50-18:35	Keynote Lecture 3		
18:35	SIICA General Assembly		

FRIDAY, JUNE 20, 2025

	PLENARIA HOTEL GIÒ
08:30-10:30	JOINT SYMPOSIUM SIICA-NIBIT Tumor immunology
10:30-12:10	Breaking news on innate immunity functions
12:10-13:00	Keynote Lecture 4
13:00-13:30	Closing Ceremony and Awards



TUESDAY, JUNE 17, 2025

AUDITORIUM SAN FRANCESCO AL PRATO

13:00 Registration of participants
15:30

15:30 **JOINT SYMPOSIUM SIICA-SIAAIC**
17:10 **IMMUNITY AT THE EPITHELIAL BARRIERS**

Chairs: **Francesco Annunziato** (*University of Florence, Florence*),
Vincenzo Patella (*University of Naples Federico II, Naples*)

15:30 Innate lymphocytes in intestinal inflammation and cancer
Giuseppe Sciumè (*Sapienza University of Rome, Rome*)

15:50 Discussion

15:55 Complex dialogue in tumor microenvironment
Carlo Pucillo (*University of Udine, Udine*)

16:15 Discussion

16:20 Type 2 biologicals and eosinophils: a step forward precision medicine
Alessandra Vultaggio (*University of Florence, Florence*)

16:40 Discussion

16:45 Title to be defined
Marco Caminati (*University of Verona, Verona*)

17:05 Discussion

17:10 **KEYNOTE LECTURE 1**
18:00 **EFIS LECTURE**

Chairs: **Massimo Locati** (*University of Milan, Milan*),
Eleonora Timperi (*Università Cattolica del Sacro Cuore, Rome*)

17:10 Neuroimmune regulation: from molecular mechanisms to
therapeutic perspectives
Sophie Ugolini (*Marseille - F*)

17:50 Discussion

18:00 **OPENING CEREMONY**
19:00

TUESDAY, JUNE 17, 2025

WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

08:30 WORKSHOP 1

09:30 TUMOR IMMUNOLOGY 1

Chairs: **Renato Ostuni** (*IRCCS San Raffaele Scientific Institute, Milan*),
Eleonora Timperi (*IRCCS San Raffaele Scientific Institute, Milan*)

08:30 Mast cells may contribute to recalling B cells in the colorectal cancer milieu

Viviana Valeri (*University of Udine, Udine*), **Eleonora Martinis**, **Silvia Tonon**, **Eleonora Capezzali**, **Matteo Pivetta**, **Barbara Frossi**, **Carlo Pucillo** (*Udine*)

08:42 Dectabine and IL-33/ST2 axis cooperate against melanoma through remodeling the tumor microenvironment to overcome resistance to PD-1 blockade

Fabrizio Mattei (*Istituto Superiore di Sanità, Rome*),
Francesco Noto^{1,2,3}, **Jacopo Mancini**¹, **Adriana Rosa Gambardella**¹,
Christina Curcio¹, **Adele De Ninno**¹, **Sara Andreone**¹, **Carla Buccione**¹,
Maria Teresa D' Urso¹, **Daniele Macchia**¹, **Anna Maria Pacca**¹,
Massimo Spada¹, **Luca Businaro**¹, **Claudia Afferni**¹, **Giovanna Schiavoni**¹ (*¹Rome, ²Naples, ³Singapore - SGP*)

08:54 In silico and in vitro evaluation of the role of bone marrow-derived CD8+ tissue-resident memory cells in multiple myeloma disease

Marco Pio La Manna (*University of Palermo, Palermo*), **Mojtaba Shekarkar Azgomi**²,
Cirino Botta¹, **Giusto Davide Badami**¹, **Mahsa Rafieiyan**¹, **Francesco Dieli**¹, **Nadia Caccamo**¹ (*¹Palermo, ²Lille - F*)

09:06 Granulocyte-macrophage colony-stimulating factor-producing RORγt+ Group 3 innate lymphoid cells accumulate in human colorectal cancer and correlate with tertiary lymphoid structure-associated cell types

Alessia Calabrò (*University of Messina, Messina*), **Stefania Campana**¹,
Fabiana Drommi¹, **Gaetana Pezzino**¹, **Riccardo Cavaliere**¹, **Gregorio Costa**¹,
Paola Orecchia², **Paolo Carrega**¹, **Irene Bonaccorsi**¹, **Guido Ferlazzo**², **Claudia De Pasquale**¹ (*¹Messina, ²Genoa*)



WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

08:30 WORKSHOP 1 09:30 TUMOR IMMUNOLOGY 1 (cont.)

09:18 Aryl hydrocarbon receptor-mediated immune suppression in soft tissue sarcomas: implications for conventional dendritic cell subset 1-mediated antitumor immunity

Estevao Carlos Silva Barcelos (University of Perugia, Perugia),
Andrea Marra², **Giorgia Manni**¹, **Alessandro Pinzi**¹, **Doriana Ricciuti**¹,
Giulia Mencarelli¹, **Francesco Sarnari**¹, **Benedetta Pieroni**¹, **Giulia Scalisi**³,
Giada Mondanelli¹, **Martina Mandarano**¹, **Angelo Sidoni**¹, **Antonio Macchiarulo**¹,
Kenneth M Murphy⁴, **Francesca Fallarino**¹, **Marco Gargaro**¹ (¹Perugia, ²Rome, ³Evry - France, ⁴St. Louis - USA)

TRUMPET 1

08:30 WORKSHOP 2 09:30 IMMUNE RESPONSE TO PATHOGENS 1

Chairs: **Andrea Cossarizza** (University of Modena and Reggio Emilia, Modena),
Valeria Fumagalli (Vita-Salute San Raffaele University, Milan)

08:30 Modeling the dynamics of long-lasting antibody responses: insights into persistence and variability following infection and vaccination
Antonella Prisco (Institute of Genetics and Biophysics CNR, Naples),
Luca Pugliese¹, **Enrico Mastrostefano**², **Giovanni Messuti**³, **Paola Stolfi**²,
Francesca Pelusi², **Filippo Castiglione**⁴, **Silvia Scarpetta**³ (¹Naples, ²Rome, ³Salerno, ⁴Abu Dhabi - UAE)

08:42 Neutrophils specific CCRL2 genetic variants contributes to COVID-19 severity
Mattia Laffranchi (Sapienza University of Rome, Rome), **Elvezia Paraboschi**²,
Francisco Miguel Angel Bianchetto Aguilera³, **Nicola Tamassia**³, **Sara Gasperini**³, **Elisa Gardiman**³, **Arianna Piserà**¹,
Annalisa Del Prete^{2,4}, **Pietro Invernizzi**², **Angela Gismondi**¹, **Alberto Mantovani**²,
Marco Cassatella³, **Rosanna Asselta**², **Silvano Sozzani**¹ (¹Rome, ²Milan, ³Verona, ⁴Brescia)

08:54 Altered miRNAome impacts on immune responses, inflammatory processes and tissue repair in children affected by long COVID
Gabriele Di Sante (University of Perugia, Perugia), **Michela Sali**²,
Maria del Carmen Pereyra Boza², **Anna Maria Stabile**¹, **Alessandra Pistilli**¹,
Mariangela Ruggirello¹, **Mario Rende**¹, **Francesco Ria**¹, **Danilo Buonsenso**¹ (¹Perugia, ²Rome)

WEDNESDAY, JUNE 18, 2025

TRUMPET 1

08:30 WORKSHOP 2 (cont.)

09:30 IMMUNE RESPONSE TO PATHOGENS 1

09:06 Different lipopolysaccharide (LPS) acylation patterns modulate hematopoietic progenitor responses and influence infection susceptibility

Marco Galli (*University of Milano-Bicocca, Milan*), **Laura Bocchini**, **Giuseppe Rocca**, **Giulia Stucchi**, **Anna Celant**, **Stefano Cozzi**, **Laura Marongiu**, **Alessandra Martorana**, **Alessandra Polissi**, **Metello Enzo Innocenti**, **Francesca Granucci** (*Milan*)

09:18 LINE1 modulate human T cell function by regulating protein synthesis during lifespan

Federica Marasca (*INGM Istituto nazionale Genetica Molecolare, Milan*), **Filippo Burattin**, **Rebecca Vadalà**, **Beatrice Bodega** (*Milan*)

TRUMPET 2

08:30 WORKSHOP 3

09:30 ERRORS OF IMMUNITY

Chairs: **Maria Rosaria Galdiero** (*University of Naples Federico II, Naples*), **Carolina Gaudenzi** (*University of Brescia, Brescia*)

08:30 The role of interferon-gamma in autoimmune polyendocrinopathy syndrome 1

Vasileios Oikonomou (*University of Perugia, Perugia*), **Grace Smith**², **Gregory Constantine**², **Monica Schmitt**², **Elise M. N. Ferré**², **Julie Alejo**², **Deanna Riley**², **Brendan D. Snarr**², **Daniel Martin**², **Marine Besnard**³, **Chyi-Chia R. Lee**², **Tom Dimaggio**², **Taura Webb**², **Joseph Pechacek**², **Princess Barber**², **Lindsey B. Rosen**², **Adriana A. De Jesus Rasheed**², **Mark S. Anderson**⁴, **Mark Swidergall**⁵, **Carole Guillonneau**³, **Luigi Notarangelo**², **Raphaella Goldbach-Mansky**², **Hero Matti**⁸, **Olaf Neth**⁷, **Olov Ekwall**⁸, **Peter Olbrich**⁷, **Karen K. Winer**², **Behdad Afzali**², **Niki M. Moutsopoulos**², **Steven M. Holland**², **Theo Heller**², **Francesco Grignani**¹, **Stefania Pittaluga**², **Michail Lionakis**² (¹Perugia, ²Bethesda - USA, ³Nantes - F, ⁴San Francisco - USA, ⁵Torrance - USA, ⁶Helsinki - FL, ⁷Seville - E, ⁸Gothenburg - S)



WEDNESDAY, JUNE 18, 2025

TRUMPET 2

08:30 **WORKSHOP 3** (cont.) **09:30** **ERRORS OF IMMUNITY**

08:42 Dissecting the genetic heterogeneity in common variable immunodeficiency: focus on a missense mutation in the CD40L gene
Lucia Bartoli (*University of Florence, Florence*), **Boaz Palterer**³, **Lorenzo Salvati**¹, **Manuela Capone**¹, **Laura Maggi**¹, **Alessio Mazzoni**¹, **Francesca Matani**¹, **Anna Vanni**¹, **Giulia Lamacchia**¹, **Stefania Francalanci**¹, **Valentina Cosi Becchi**¹, **Lorenzo Cosmi**¹, **Paola Parronchi**¹, **Alessandro Bartoloni**¹, **Francesco Annunziato**¹, **Francesco Liotta**¹ (¹Florence, ²Palermo, ³Boston - USA)

08:54 Lymphoproliferative disorders and inborn errors of immunity: a model for unraveling signaling pathways targetable by precision therapies
Mattia Moratti (*University of Rome Tor Vergata, Rome*), **Beatrice Rivalta**¹, **Antonello Cardoni**¹, **Riccardo Ciudino**², **Edoardo Muratore**², **Lucia Pacillo**¹, **Veronica Santilli**¹, **Silvia Di Cesare**¹, **Cristina Cifaldi**¹, **Gigliola Di Matteo**², **Rita De Vito**², **Elena Sabatini**², **Rita Alaggio**¹, **Francesca Conti**², **Caterina Cancrini**¹ (¹Rome, ²Bologna)

09:06 Human IL12RB1-deficiency reveals essential roles of IL-12 and IL-23 in innate and adaptive immune responses
Alessio Mazzoni (*University of Florence, Florence*), **Anna Vanni**¹, **Roberto Semeraro**¹, **Marta Baragli**¹, **Lorenzo Salvati**¹, **Boaz Palterer**², **Jessica Mencarini**¹, **Manuela Capone**¹, **Giulia Lamacchia**¹, **Benedetta Peruzzi**¹, **Roberto Caporale**¹, **Sara Bencini**¹, **Sara Pratesi**¹, **Lucia Bartoli**¹, **Francesca Matani**¹, **Stefania Francalanci**¹, **Valentina Cosi Becchi**¹, **Filippo Bartalesi**¹, **Francesco Liotta**¹, **Lorenzo Cosmi**¹, **Alessandro Bartoloni**¹, **Laura Maggi**¹, **Paola Parronchi**¹, **Alberto Magi**¹, **Francesco Annunziato**¹ (¹Florence, ²Boston - USA)

09:18 Study of the pro-inflammatory role of cytokine nicotinamide phosphoribosyltransferase in inflammatory bowel disease and its possible therapeutic use
Greta Cascetta (*University of Pavia, Pavia*), **Giorgia Colombo**², **Gianmarco Eremita**¹, **Angela Ferramosca**¹, **Aurora Meggiolan**¹, **Cristina Travelli**¹ (¹Pavia, ²New York - USA)

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PLENARIA HOTEL GIÒ

09:30 KEYNOTE LECTURE 2

10:15 Chairs: **Francesca Fallarino** (*University of Perugia, Perugia*),
Renato Ostuni (*IRCCS San Raffaele Scientific Institute, Milan*)

09:30 Human immune variation and its origins early in life
Petter Brodin (*Karolinska Institute, Solna - S*)

10:10 Discussion

10:15 TECHNOLOGICAL ADVANCEMENTS SYMPOSIUM

10:45 Chairs: **Daniela Bosisio** (*University of Brescia, Brescia*),
Alessio Grimaldi (*Sapienza University of Rome, Rome*)

Miltenyi Biotec

$\gamma\delta$ T cells for innovative immunotherapy
Adriano Taddeo (*Bologna*)

Bio-Techne

Expand your multiomic capabilities with RNAscope™
Euplio Visco (*Milan*)

Euroclone

Leading the way: innovative solutions for spatial biology and CAR
Research
Romina Sangregorio (*Milan*)

10:45 *Coffee break*
11:15

WEDNESDAY, JUNE 18, 2025



WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

11:15
12:55

JOINT SYMPOSIUM SIICA-ImmunitA HUMAN INBORN ERRORS OF IMMUNITY



Chairs: **Maria Rosaria Galdiero** (*University of Naples Federico II, Naples*),
Teresa Zelante (*University of Perugia, Perugia*)

11:15

Gene therapy is efficacious in treating immunodeficiency, autoimmunity and autoinflammatory manifestations of Wiskott Aldrich syndrome

Francesca Ferrua (*"Vita-Salute" San Raffaele University, Milan*)

11:35

Discussion

11:40

New genes and therapies for autoinflammatory diseases

Marco Gattorno (*Genoa*)

12:00

Discussion

12:05

Immune dysregulation in immunodeficient patients

Riccardo Castagnoli (*University of Pavia, Pavia*)

12:25

Discussion

12:30

Human inborn errors of immunity: lessons from COVID-19 pandemic

Cinzia Milito (*Sapienza University of Rome, Rome*)

12:50

Discussion

TRUMPET 1

13:00
13:30

INDUSTRY WORKSHOP LUNCH - BECKMAN COULTER

Chairs: **Andrea Cossarizza** (*University of Modena and Reggio Emilia, Modena*)

Decoding complex signals: autofluorescence management and spectral unmixing in flow cytometry

Domenico Lo Tartaro (*University of Modena and Reggio Emilia, Modena*)

POSTER AREA

13:30
14:30

POSTER SESSION 1

Chairs: **Alessio Grimaldi** (*Sapienza University of Rome, Rome*)

Mattia Laffranchi (*Sapienza University of Rome, Rome*),

Giulia Lamacchia (*University of Florence, Florence*),

Giuseppe Pietropaolo (*Sapienza University of Rome, Rome*),

Silvia Tonon (*University of Udine, Udine*),

During this session, the poster authors will be available near the monitors in the exhibition area to answer any questions or provide further insights.

WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

14:30 WORKSHOP 4

15:30 INNATE IMMUNITY

Chairs: **Marco Gargaro** (*University of Perugia, Perugia*),
Silvia Tonon (*University of Udine, Udine*)

14:30 STAT4 suppresses type I interferon transcriptome in inflammatory ILC2
Giuseppe Pietropaolo (*Sapienza University of Rome, Rome*), **Arianna Maria Candelotti**², **Giordana Garzillo**², **Chiara Di Censo**², **Gianluca Scarno**², **Giovanna Peruzzi**², **Cinzia Fionda**², **Helena Stabile**², **Francesca Sozio**², **Rosa Molfetta**², **Fabrizio Leone**², **Bianca L. Cinicola**², **Cecilia Ciancaglini**², **Linda Quatrini**², **Alessandra Gori**², **Anna Maria Zicari**², **Yohei Mikami**³, **Angela Gismondi**², **Silvano Sozzani**², **Angela Santoni**², **Mattia Laffranchi**², **Giuseppe Sciumè**² (¹Pozzilli, ²Rome, ³Tokyo - J)

14:42 Cyp1a1 deficiency endows type-2 dendritic cells with immunoregulatory functions
Alessandro Pinzi (*University of Perugia, Perugia*), **Francesco Sarnari**¹, **Benedetta Pieroni**¹, **Giorgia Manni**¹, **Giulia Mencarelli**¹, **Doriana Ricciuti**¹, **Estevao Carlos Silva Barcelos**¹, **Carsten B. Schmidt-Weber**², **Caspar Ohnmacht**², **Francesca Fallarino**¹, **Marco Gargaro**¹ (¹Perugia, ²Munich - D)

14:54 Uncovering two neutrophil-committed progenitors that immediately precede the promyelocytes during human neutropoiesis
Ilaria Signoretto (*University of Verona, Verona*), **Federica Calzetti**, **Giulia Finotti**, **Camillo Balanzin**, **Francisco Miguel Angel Bianchetto Aguilera**, **Sara Gasperini**, **Elisa Gardiman**, **Nicola Tamassia**, **Marco Cassatella** (*Verona*)

15:06 Phenotype and function of suppressive monocytes during viral infections
Maria Nelli (*Vita-Salute San Raffaele University, Milan*), **Valentina Sperto**¹, **Chiara Laura**¹, **Fabio Tosi**¹, **Pietro Di Lucia**¹, **Eleonora Sala**¹, **Elisa Bono**¹, **Leonardo Giustini**¹, **Marco Genua**¹, **Maykel Arias**², **Renato Ostuni**¹, **Julian Pardo Jimeno**², **Matteo Iannacone**¹, **Mirela Kuka**¹ (¹Milan, ²Zaragoza - E)

15:18 Macrophage-driven NK cell plasticity associates with CXCR3 axis in mouse liver metastasis models
Chiara D'Aquino (*Sapienza University of Rome, Rome*), **Eleonora Russo**¹, **Chiara Di Censo**^{1,2}, **Mattia Laffranchi**², **Luana Tomaipitincă**², **Valerio Licursi**², **Stefano Garofalo**², **Giovanna Peruzzi**², **Francesca Sozio**², **Cristina Limatola**^{1,3}, **Christian Vossenrich**², **Silvano Sozzani**³, **Giuseppe Sciumè**¹, **Angela Santoni**³, **Giovanni Bernardini**¹ (¹Rome, ²Paris - F, ³Isernia)



WEDNESDAY, JUNE 18, 2025

TRUMPET 1

14:30 WORKSHOP 5

15:30 IMMUNOTHERAPY

Chairs: **Mattia Laffranchi** (*Sapienza University of Rome, Rome*),
Renato Ostuni (*IRCCS San Raffaele Scientific Institute, Milan*)

14:30 Interleukin-1 receptor 8 deficiency enhances the anti-tumour activity of doxorubicin and reduces cardiotoxicity

Francesco Scavello (*IRCCS Humanitas Research Hospital, Rozzano*),
Domenico Supino¹, **Arianna Felicetta**¹, **Francesca Vaino**¹, **Silvia Carnevale**¹, **Giovanni Pezone**¹, **Irene Di Ceglie**¹, **Andrea Mariancini**¹,
Anna Rigatelli¹, **Fabio Pasqualini**¹, **Alessandra Idini**¹, **Alessia Privitera**¹,
Marcello Rubino¹, **Elena Magrini**¹, **Sebastien Jaillon**^{1,2}, **Carolina Greco**²,
Alberto Mantovani^{1,2,3}, **Gianluigi Condorelli**², **Cecilia Garlanda**^{1,2}
(¹Rozzano, ²Pieve Emanuele, ³London - UK)

14:42 Dissecting a dual tumor-suppressive role of microRNA203a in non-small cell lung cancer

Carolina Gaudenzi (*University of Brescia, Brescia*), **Tiziana Schioppa**¹
², **Gaia Giongrandi**¹, **Yasmin Vahidi**¹, **Stefania Zini**¹, **Laura Tiberio**¹,
Annalisa Del Prete^{1,2}, **Daniela Bosisio**¹, **Valentina Salvi**¹ (*¹Brescia,*
²Milan)

14:54 A private crosstalk established by tumor-targeted cytokine release rescues CAR-T activity and engages host T cells against glioblastoma

Giorgia Alvisi (*San Raffaele Telethon Institute for Gene Therapy, Milan*),
Federico Rossari, **Melania Cusimano**, **Stefano Beretta**,
Deborah Ambrosecchia, **Ottavia Vitaloni**, **Nadia Coltella**, **Luigi Naldini** (*Milan*)

15:06 Stimulating resolution of inflammation unleashes CD8 T-cell anti-cancer immunity

Domenico Mattosco (*University of Chieti, Chieti*)

15:18 Targeting chondroitin sulfate proteoglycan 4 with DNA vaccination to unlock new potential combination therapies for melanoma

Federica Riccardo (*University of Turin, Turin*), **Lidia Tarone**¹, **Davide Giacobino**¹,
Mariateresa Camerino¹, **Lorenza Parisi**¹, **Lorella Maniscalco**¹,
Flavia D'Achille¹, **Giuseppina Barutello**¹, **Laura Conti**¹, **Soldano Ferrone**²,
Paolo Buracco¹, **Emanuela Morello**¹, **Federica Cavallo**¹ (*¹Turin, ²Boston - USA*)

WEDNESDAY, JUNE 18, 2025

TRUMPET 2

14:30 WORKSHOP 6

15:30 VACCINES

Chairs: **Giulia Lamacchia** (*University of Florence, Florence*), **TBC**

14:30 Characterization of DC-T cell interaction dynamics in a vaccination model through in vivo enzymatic labeling
Enrico Dotta (*University of Padua, Padua*), **Giulia Cesaro, Giacomo Baruzzo, Barbara Di Camillo, Giulia Pasqual, Edoardo Peroni** (*Padua*)

14:42 Exploiting hyaluronan as a natural and effective immunological adjuvant for protein-based vaccines against HER2-expressing breast cancer
Valentina Rossi (*Veneto Institute of Oncology IOV-IRCCS, Padua*), **Debora Carpanese, Anna Dalla Pietà, Beatrice Genova, Alessandro Penna, Gaia Zuccolotto, Antonella Grigoletto, Gianfranco Pasut, Antonio Rosato** (*Padua*)

14:54 Smallpox-specific T cells in vaccinated centenarians exhibit phenotypic and metabolic traits of long-term memory compared to SARS-CoV-2-specific T cells
Sara De Biasi (*University of Modena and Reggio Emilia, Modena*), **Domenico Lo Tartaro¹, Moritz Rau², Francesco Bortoli¹, Elena Santacroce¹, Alin Ciobanu¹, Lara Gibellini¹, Francesca Coppi¹, Ignacio Rubio², Giuseppina Candore³, Calogero Caruso³, Andrea Cossarizza¹** (*¹Modena, ²Jena - D, ³Palermo*)

15:06 Characterization and monitoring of T cell-specific immune response in subjects at high risk of monkeypox infection undergoing anti-smallpox vaccination
Laura Maggi (*University of Florence, Florence*), **Anna Vanni¹, Valentina Cosi Becchi¹, Giulia Lamacchia¹, Lorenzo Salvati^{1,2}, Alessio Mazzoni¹, Manuela Capone¹, Francesca Matani¹, Lucia Bartoli^{1,3}, Stefania Francalanci¹, Seble Tekle Kiros¹, Filippo Lagi¹, Alessandro Bartoloni¹, Lorenzo Cosmi¹, Francesco Liotta¹, Alessandro Sette⁴, Francesco Annunziato¹** (*¹Florence, ²Arezzo, ³Palermo, ⁴La Jolla - USA*)

15:18 Machine learning approaches to detect individuals who were unaware of SARS-CoV2 infection: dissection of hybrid and vaccine-induced immunity
Annalisa Ciabattini (*University of Siena, Siena*), **Giorgio Montesi, Simone Costagli, Jacopo Polvere, Fabio Fiorino, Gabiria Pastore, Margherita Sambo, Massimiliano Fabbiani, Mario Tumbarello, Francesca Montagnani, Elena Pettini, Donata Medaglini** (*Siena*)



WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

15:30

JF SYMPOSIUM - RISING STARS IN IMMUNOLOGY

16:30

Chairs: **Alessio Grimaldi** (*Sapienza University of Rome, Rome*),
Eleonora Timperi (*IRCCS San Raffaele Scientific Institute, Milan*)

15:30

News and views from the SIICA Junior Faculty

15:42

Microbial-derived metabolites promote NKT22 responses in colitis associated colorectal cancer patients
Federica Perillo (*Fondazione IRCCS Cà Granda, Ospedale Maggiore Policlinico, Milan*), **Alberto Baeri**, **Paola Maragno**, **Francesco Strati**, **Federica Facciotti** (*Milan*)

15:54

Microbial bile acid metabolites are key regulators of central nervous system autoimmunity
Martina Antonini Cencicchio (*IRCCS Ospedale San Raffaele, Milan*), **Federico Montini**, **Vittoria Palmieri**, **Luca Massimino**, **Annamaria Finardi**, **Alessandra Mandelli**, **Francesco Asnicar**, **Radmila Pavlovic**, **Denise Drago**, **Federica Ungaro**, **Annapaola Andolfo**, **Nicola Segata**, **Vittorio Martinelli**, **Roberto Furlan**, **Marika Falcone** (*Milan*)

16:06

AhR-expressing type 1 conventional dendritic cells play a protective role in the experimental model of sepsis
Giada Mondanelli (*University of Perugia, Perugia*), **Giulia Scalisi¹**, **Giorgia Manni¹**, **Giulia Mencarelli¹**, **Estevao Carlos Silva Barcelos¹**, **Doriana Ricciuti¹**, **Benedetta Pieroni¹**, **Alessandro Pinzi¹**, **Anna La Rosa¹**, **Francesco Sarnari¹**, **Kenneth M Murphy²**, **Francesca Fallarino¹**, **Marco Gargaro¹** (*¹Milan, ²St. Louis - USA*)

16:18

Key role of microRNA-142-3p shuttling via extracellular vesicles in regulatory T cell function
Giusy De Rosa (*Istituto degli Endotipi in Oncologia, Metabolismo e Immunologia "G. Salvatore", Consiglio Nazionale delle Ricerche - IEOMI-CNR, Naples*), **Claudia Russo¹**, **Silvia Garavelli¹**, **Dario Di Silvestre²**, **Ilaria Spatocco¹**, **Giorgia Mele¹**, **Claudia La Rocca¹**, **Clorinda Fusco¹**, **Alessandra Colamatteo¹**, **Fortunata Carbone¹**, **Elena Tagliabue³**, **Vincenza Dolo⁴**, **Ilaria Giusti⁴**, **Francesca Beretta⁵**, **Edoardo Dalmato Schilke⁵**, **Guido Cavaletti⁵**, **Ettore Dolcetti⁶**, **Fabio Buttarì⁶**, **Gianmarco Abbadessa¹**, **Simona Bonavita¹**, **Gianmarco Esposito¹**, **Vincenzo Di Marino¹**, **Kristyna Ruggiero¹**, **Giacomo Lus¹**, **Elisabetta Signoriello¹**, **Roberta Lanzillo¹**, **Vincenzo Brescia Morra¹**, **Antonio Uccelli⁷**, **Marco Salvetti⁸**, **Diego Centonze⁸**, **Roberto Furlan⁹**, **Giuseppe Matarese¹**, **Claudio Procaccini¹**, **Paola de Candia¹** (*¹Naples, ²Segrate, ³Varese, ⁴L'Aquila, ⁵Monza, ⁶Pozzilli, ⁷Genoa, ⁸Rome, ⁹Milan*)

June 17-20, 2025

PERUGIA

National Congress

WEDNESDAY, JUNE 18, 2025

PLENARIA HOTEL GIÒ

16:30 Coffee break
17:00

17:00 **DECODING MYELOID DIVERSITY**

18:40 Chairs: **Valeria Fumagalli** (*IRCCS San Raffaele Scientific Institute, Milan*),
Marco Gargaro (*University of Perugia, Perugia*)

17:00 Intersection of immune-mediated amino acid metabolism and tumor biology
Peter Murray (*Max Planck Institute of Biochemistry, Martinsried - D*)

17:20 Discussion

17:25 How innate immune cells adapt to environment and function: diverse tales of mitochondria
Stefanie Wculek (*Institute for Research in Biomedicine - IRB, Barcelona - E*)

17:45 Discussion

17:50 Decoding type 3 dendritic cells as drivers of immune resistance in non-small cell lung cancer
Francesca Granucci (*University of Milano Bicocca, Milan*)

18:10 Discussion

18:15 Advanced antigen-specific tolerogenic dendritic cell-based therapy to re-establish tolerance in immune-mediated diseases
Silvia Gregori (*University of Milano Bicocca, Milan*)

18:35 Discussion

WEDNESDAY, JUNE 18, 2025



THURSDAY, JUNE 19, 2025

PLENARIA HOTEL GIÒ

08:30 WORKSHOP 7

09:30 TUMOR IMMUNOLOGY 2

Chairs: **Alessio Grimaldi** (*Sapienza University of Rome, Rome*),
Eleonora Timperi (*IRCCS San Raffaele Scientific Institute, Milan*)

08:30 Interleukin 10 produced by tumor-reactive EOMESODERMIN+Tr1-like cells is critical for immunotherapy of melanoma

Jens Geginat (*University of Milan, Milan*), **Camilla Righetti**¹, **Elena Carelli**¹, **Benedetta Deponticonte**², **Ylenia Silvestri**¹, **Nerina Denaro**¹, **Fabio Grassi**^{1,2} (*¹Milan, ²Bellinzona - CH*)

08:42 IL4I1 catalytic activity confers protection against ferroptosis in a murine fibrosarcoma cell line

Giulia Mencarelli (*University of Perugia, Perugia*), **Estevao Carlos Silva Barcelos**¹, **Giorgia Manni**¹, **Doriana Ricciuti**¹, **Benedetta Pieroni**¹, **Francesco Sarnari**¹, **Alessandro Pinzi**¹, **Kenneth M. Murphy**², **Francesca Fallarino**¹, **Marco Gargaro**¹ (*¹Perugia, ²St. Louis - USA*)

08:54 Defining breadth and dynamics of tumor-specific T lymphocytes in oesophageal adenocarcinoma

Francesco Di Mauro (*Vita-Salute San Raffaele University, Milan*), **Elisabetta Fai**, **Marco Punta**, **Giulia Lopatriello**, **Luca Albarello**, **Eliana Ruggiero**, **Chiara Cattaneo**, **riccardo Rosati**, **Giulia Casorati**, **Paolo Dellabona**, **Giuseppina Arbore** (*Milan*)

09:06 Neutrophil-like monocytes increase in patients with colon cancer and induce dysfunctional TIGIT+ natural killer cells

Claudia De Pasquale (*University of Messina, Messina*), **Fabiana Drommi**¹, **Giacomo Sidoti Migliore**², **Gaetana Pezzino**¹, **Grazia Vento**³, **Josephine Freni**¹, **Gregorio Costa**¹, **Riccardo Cavaliere**¹, **Irene Bonaccorsi**¹, **Mariagrazia Sionne**¹, **Stefania Nigro**¹, **Giuseppe Navarra**¹, **Alessia Calabrò**¹, **Stefania Campana**¹, **Guido Ferlazzo**³ (*¹Messina, ²Bethesda - USA, ³Genoa*)

09:18 Integrating immune cell profiling and microbiota analysis to understand multiple myeloma disease progression

Anna Maria Corsale (*University of Palermo, Palermo*), **Marta Di Simone**¹, **Emilia Gigliotta**¹, **Maria Speciale**¹, **Andrea Rizzuto**¹, **Cristina Aquilina**¹, **Marta Biondo**², **Andrea Romano**¹, **Alessandro Romano**², **Antonino Neri**³, **Nadia Caccamo**¹, **Francesco Dieli**¹, **Serena Meraviglia**¹, **Sergio Siragusa**¹, **Cirino Botta**¹ (*¹Palermo, ²Catania, ³Reggio Emilia*)

THURSDAY, JUNE 19, 2025

THURSDAY, JUNE 19, 2025

TRUMPET 1

08:30 WORKSHOP 8

09:30 IMMUNE RESPONSE TO PATHOGENS 2

Chairs: **Silvia Tonon** (*University of Udine, Udine*),**Irene Mattioli** (*Charité - University of Medicine, Berlin - D*)

- 08:30 A SARS-CoV-2 nucleocapsid protein-derived peptide modulates MHC-I expression and impairs antigen presentation
Davide Proietto (*University of Ferrara, Ferrara*), **Elena Torreggiani**¹, **Beatrice Dallan**¹, **Martina De Laurentis**¹, **Eleonora Gallerani**¹, **Mara Martino**¹, **Enrico Tassani**¹, **Valentina Albanese**¹, **Victor Appay**², **Lacey Sian Llewellyn**³, **Salvatore Pacifico**¹, **David A. Price**³, **Antonella Caputo**¹, **Riccardo Gavioli**¹, **Francesco Nicoli**¹ (¹Ferrara, ²Bordeaux - F, ³Cardiff UK)
- 08:42 Extracellular vesicles from $\gamma\delta$ T-cells exert adjuvant antiviral responses enhancing antigen presenting capabilities
Federica Guarracino (*Bambino Gesù Children's Hospital, Rome*), **Veronica Bordonì**, **Luca Quattrocchi**, **Angela Lorusso**, **Antonella Minutolo**, **Claudia Matteucci**, **Cecilia Battistelli**, **Marco Tripodi**, **Franco Locatelli**, **Chiara Agrati** (*Rome*)
- 08:54 HLA-E-restricted CD8+ T cell response to conserved SARS-CoV-2 peptides is promising for improving vaccination and therapeutic strategies
Mahsa Rafieiyan (*University of Palermo, Palermo*), **Mojtaba Shekarkar Azgomi**, **Marco Pio La Manna**, **Giusto Davide Badami**, **Francesco Dieli**, **Nadia Caccamo** (*Palermo*)
- 09:06 The long pentraxin PTX3 is a pathogenic host factor in the *Staphylococcus aureus* infection of the bone
Antonio Inforzato (*Humanitas University, Pieve Emanuele*), **Raffaella Parente**¹, **Valentina Possetti**^{1,2}, **Dario Strina**¹, **Valentina Granata**¹, **Francesca Liberati**¹, **Maria Lucia Schiavone**¹, **Sonia Valentino**¹, **Maša Filipović**³, **Nataša Kovačić**³, **Danka Grčević**³, **Barbara Bottazzi**¹, **Alberto Mantovani**^{1,4}, **Cristina Sobacchi**¹ (¹Rozzano, ²Pieve Emanuele, ³Zagreb - HR, ⁴London - UK)
- 09:18 Mechanoreceptors initiate innate immunity in response to microbial infections
Giulia Stucchi (*University of Milano-Bicocca, Milan*), **Laura Marongiu**, **Giuseppe Rocca**, **Marco Galli**, **Anna Celant**, **Stefano Cozzi**, **Alessandra Polissi**, **Alessandra Martorana**, **Marina Vai**, **Ivan Orlandi**, **Metello Enzo Innocenti**, **Francesca Granucci** (*Milan*)



THURSDAY, JUNE 19, 2025

TRUMPET 2

08:30 WORKSHOP 9

09:30 METABOLISM

Chairs: **Silvia Piconese** (*Sapienza University of Rome, Rome*),
Giuseppe Pietropaolo (*Sapienza University of Rome, Rome*)

08:30 Defective OPA-1 dependent mitochondrial fusion in Kupffer cells affects immunometabolic response and systemic metabolism
Danilo Norata (*University of Milan, Milan*), **Francesca Fantini**,
Giovanni Battista Vingiani, **Laura Gullà**, **Fabrizia Bonacina** (*Milan*)

08:42 The GDP metabolism triggering RANBP1-dependent modulation, form the basis of a new differential genetic-metabolic regulation of the lymphocyte fate: a novel pathway for targeted CD4+ re-editing
Carolina Brescia (*University "Magna Graecia" of Catanzaro, Catanzaro*), **Salvatore Audia**¹, **Naomi Torchia**¹, **Vincenzo Dattilo**¹,
Francesco Trapasso¹, **Domenica Scumaci**¹, **Edoardo Peroni**², **Gianluca Santamaria**¹, **Niccolò Vono**¹, **Luca Tirinato**¹, **Emanuela Chiarella**¹, **Clelia Zerotti Misiano**¹, **Rosario Amato**¹ (¹Catanzaro, ²Padua)

08:54 Impact of specific nutrient overload on the balance between peripheral immune tolerance and autoimmunity
Claudia Russo (*Azienda Ospedaliera Federico II, Naples*), **Giusy De Rosa**, **Claudia La Rocca**, **Vincenzo Di Marino**, **Kristyna Ruggiero**,
Gianmarco Esposito, **Fortunata Carbone**, **Claudio Procaccini**,
Giuseppe Matarese (*Naples*)

09:06 Aging with HIV: assessing premature immunosenescence as a strategy to monitor and prevent age-related co-morbidities
Beatrice Dallan (*University of Ferrara, Ferrara*), **Marco Campagnaro**¹,
Eleonora Gallerani¹, **Mara Martino**¹, **Davide Proietto**¹, **Enrico Tassani**¹,
Carlos Alberto Guzman², **Stephanie Trittel**², **Massimo Bonora**¹, **Sara Ghisellini**¹, **Lacey Sian Llewellyn**³, **Victor Appay**⁴, **David A. Price**³,
Riccardo Gavioli¹, **Daniela Segala**¹, **Antonella Caputo**¹, **Francesco Nicoli**¹ (¹Ferrara, ²Braunschweig - D, ³Cardiff - UK, ⁴Bordeaux - F)

09:18 Cardiovascular-immunometabolic profile in survivors of childhood acute lymphoblastic leukaemia (sALL)
Fabrizia Bonacina (*University of Milan, Milan*), **Alessandro Cattoni**¹,
Marta Iaia², **Santo Di Marco**¹, **Giovanni Battista Vingiani**², **Elena Olmastroni**², **Annalisa Moregola**², **Adriana Balduzzi**¹, **Danilo Norata**²
(¹Monza, ²Milan)

June 17-20, 2025
PERUGIA

SIICA 2025

XV

National Congress

THURSDAY, JUNE 19, 2025

PLENARIA HOTEL GIÒ

09:30
10:00

TECHNOLOGICAL ADVANCEMENTS SYMPOSIUM

Chairs: **Carolina Gaudenzi** (*University of Brescia, Brescia*),
Mattia Laffranchi (*University of Brescia, Brescia*)

Cytosens

Stratifying NSCLC patients to immunotherapy using quantitative functional proteomics

Véronique Calleja (*Bilbao - E*)

AHSI e Agilent Technologies

NovoCyt Opteon serving immunology: resolution, sensitivity, automation

Gabriele Dammone (*Nottingham - UK*), **Lorena Maria Ferreira** (*Milan*)

Aurogene

Full spectrum analysis of T cells in the tumor microenvironment

Silvia Piconese (*Rome*)

10:00
11:00

DIVERSE PATHS AND INSPIRATIONS IN SCIENCE

Panelist:

Marcello Allegretti (*Dompè, Milan*)

Beatrice Bodega (*National Institute of Molecular Genetics / University of Milan, Milan*)

Federica Facciotti (*Università degli Studi di Milano Bicocca, Milan*)

Daniela Latorre (*IRCCS Ospedale San Raffaele, Milan*)

Ashley Moseman (*Duke University School of Medicine, Durham - USA*)

11:00
11:30

Coffee break

THURSDAY, JUNE 19, 2025



THURSDAY, JUNE 19, 2025

PLENARIA HOTEL GIÒ

11:30
13:10

NON-CONVENTIONAL CELL-TO-CELL COMMUNICATION AND IMMUNE RELATION

Chair: **Daniela Bosisio** (*University of Brescia, Brescia*),
Francesca Fallarino (*University of Perugia, Perugia*)

11:30

Human CD4⁺ T cells: the ins and outs of extracellular vesicle-based communication in health and autoimmunity
Paola De Candia (*Università degli Studi di Napoli Federico II, Naples*)

11:50

Discussion

11:55

Single-cell analysis reveals SARS-CoV-2 modulation of monocyte differentiation and immune response during Omicron BA.1 in vitro stimulation

Giada Cairo (*Istituto Superiore di Sanità, Rome*), **Martina Severa**¹,
Elena Criuscio², **Matteo Castelli**², **Marilena Etna**¹, **Daniela Ricci**¹,
Roberto Burioni², **Anna Teresa Palamara**¹, **Nicola Clementi**², **Eliana Coccia**¹ (*¹Rome, ²Milan*)

12:15

Discussion

12:20

Insights from population-scale single-cell genomics in cohorts with embedded medical data
Nicole Soranzo (*Cambridge - UK*)

12:40

Discussion

12:45

Tissue-specific immune regulation in the olfactory mucosa
Ashley Moseman (*Duke University School of Medicine, Durham - USA*)

13:05

Discussion

TRUMPET 1

13:10
13:40

INDUSTRY WORKSHOP LUNCH - BD BIOSCIENCES

Chair: **Marco Gargaro** (*University of Perugia, Perugia*)

BD FACSDiscover™ A8: the world's first spectral cell analyzer with real-time imaging

Mark Dessing (*Manager European Center for Single Cell Solutions - BD Biosciences*)

THURSDAY, JUNE 19, 2025

June 17-20, 2025
PERUGIA

SIICA 2025

XV

National Congress

THURSDAY, JUNE 19, 2025

POSTER AREA

13:40 POSTER SESSION 2

14:40 Chairs: **Valeria Fumagalli** (Vita-Salute San Raffaele University, Milan),
Carolina Gaudenzi (University of Brescia, Brescia),
Irene Mattiola (Charité - University of Medicine, Berlin - D),
Giuseppe Pietropaolo (Sapienza University of Rome, Rome),
Eleonora Timperi (IRCCS San Raffaele Hospital, Milan)
During this session, the poster authors will be available near the monitors in the exhibition area to answer any questions or provide further insights.

PLENARIA HOTEL GIO

14:40 PLENARY SYMPOSIUM

16:20 BREAKING NEWS ON T CELL FUNCTIONS

Chairs: **Andrea Cossarizza** (University of Modena e Reggio Emilia, Modena),
Silvia Piconese (Sapienza University of Rome, Rome)

- 14:40** Unexpected roles of T cells in cardiovascular disease
Marinos Kallikourdis (University of Cambridge, Cambridge - UK)
- 15:00** Discussion
- 15:05** Thymus damage and regeneration: implications for patient Immunity
Enrico Velardi (Bambino Gesù Children's Hospital, Rome)
- 15:25** Discussion
- 15:30** Dissecting autoreactive T cell immunity in human neurological disorders
Daniela Latorre (IRCCS San Raffaele Hospital, Milan)
- 15:50** Discussion
- 15:55** Parallel interrogation of T cell receptor-antigen interactions by enzymatic DNA barcoding
Giulia Pasqual (University of Padua, Padua)
- 16:15** Discussion
- 16:20** *Coffee break*
- 16:50**

THURSDAY, JUNE 19, 2025



THURSDAY, JUNE 19, 2025

PLENARIA HOTEL GIÒ

16:50 WORKSHOP 10 17:50 T AND B CELLS

Chairs: **Mattia Laffranchi** (*Sapienza University of Rome, Rome*),
Giulia Lamacchia (*University of Florence, Florence*)

16:50 The human bone marrow may offer an IL-15-dependent survival niche for EOMES+ Tr1-like cells
Jens Geginat (*University of Milan, Milan*), **Nadia Pulvirenti**¹, **Chiara Vasco**¹, **Camilla Righetti**¹, **Petra Dad'ová**¹, **Tiziana Vigo**², **Alice Laroni**², **Antonio Uccelli**² (¹Milan, ²Genoa)

17:02 Impairment of innate immunity and depletion of vaccine-induced T cells in the absence of the spleen
Chiara Agrati (*Bambino Gesù Children's Hospital, Rome*), **Veronica Bordini**¹, **Bianca Laura Cinicola**¹, **Eva Piano Mortari**¹, **Concetta Castilletti**², **Federica Guarracino**¹, **Christian Albano**¹, **Silvia Accordini**², **Anwar Baban**¹, **Antonio Di Sabatino**³, **Carlo Maria Rossi**³, **Marco Vincenzo Lenti**³, **Anna Maria Zicari**¹, **Riccardo Cirelli**¹, **Marco Spada**¹, **Gian Luca Forni**⁴, **Isabella Quinti**¹, **Mattia Algeri**¹, **Maddalena Casale**⁵, **Silverio Perrotta**⁵, **Franco Locatelli**¹, **Rita Carsetti**¹ (¹Rome, ²Verona, ³Pavia, ⁴Genoa, ⁵Naples)

17:14 Metabolically active and highly polyfunctional intratumoral VISTA+ regulatory B cells are linked to tumor recurrence in early-stage NSCLC
Domenico Lo Tartaro (*University of Modena and Reggio Emilia, Modena*), **Beatrice Aramini**², **Valentina Masciale**¹, **Nikolaos Paschalidis**³, **Francesco Lofaro**¹, **Anita Neroni**¹, **Rebecca Borella**¹, **Elena Santacroce**¹, **Alin Ciobanu**¹, **Anna Valeria Sammarelli**¹, **Federica Boraldi**¹, **Daniela Quaglino**¹, **Gloria Manzotti**⁴, **Francesca Reggiani**⁴, **Federica Torricelli**⁴, **Alessia Ciarrocchi**⁴, **Antonino Neri**⁴, **Massimo Dominici**¹, **Pierluigi Filosso**¹, **Franco Stella**², **Lara Gibellini**¹, **Sara De Biasi**¹, **Andrea Cossarizza**¹ (¹Modena, ²Forlì, ³Athens, - GR, ⁴Reggio Emilia)

17:26 Thrombospondin-4 is a component of the supramolecular attack particle shell and is targeted by chronic lymphocytic leukemia for immune evasion
Chiara Cassioli (*University of Siena, Siena*), **Nagaja Capitani**¹, **Claire Staton**², **Claudia Schirra**³, **Ludovica Lopresti**¹, **Laura Patrussi**¹, **Ute Becherer**³, **Michael L. Dustin**², **Cosima Baldari**¹ (¹Siena, ²Oxford - UK, ³Homburg - D)

THURSDAY, JUNE 19, 2025

PLENARIA HOTEL GIÒ

16:50 WORKSHOP 10 (cont.) 17:50 T AND B CELLS

- 17:38 A humanized transgenic mouse model to investigate CD1c-redirec-
tored T cells responses
Giulia Mondardini (*IRCCS San Raffaele Scientific Institute, Milan*),
Elise Ramia, Annamaria Finardi, Claudio Garavaglia, Gloria Delfanti,
Claudio Doglioni, Roberto Furlan, Paolo Dellabona, Giulia Casorati,
Michela Consonni (*Milan*)

16:50 WORKSHOP 11 17:50 MUCOSAL IMMUNITY

TRUMPET 1 THURSDAY, JUNE 19, 2025

- Chairs: **Giuseppe Pietropaolo** (*Sapienza University of Rome, Rome*),
Silvia Tonon (*University of Udine, Udine*)
- 16:50 A B-cell cross-road between systemic and upper respiratory tract
immunity
Eva Piano Mortari (*Bambino Gesù Children's Hospital, Rome*),
Mattia Laffranchi, Bianca Laura Cinicola, Sabina Barresi, Valentina
Marcellini, Isabella Quinti, Silvano Sozzani, Rita Carsetti (*Rome*)
- 17:02 Gliadin activated CD4+ T cells is a new method to detect activated
lymphocytes in the blood of celiac disease patients
Carmen Gianfrani (*Institute of Biochemistry and Cell Biology,*
Naples), **Laura Pisapia, Marcella D'Ambrosio, Ilaria Mottola, Antonio**
Rispo, Giovanna Del Pozzo (*Naples*)
- 17:14 Extracellular vesicles from bone marrow-derived mesenchymal stem
cells downmodulate the gliadin-induced immunity in celiac disease
Ilaria Mottola (*Institute of Biochemistry and Cell Biology, Naples*),
Rachele Ciccocioppo¹, Valeria Zuliani², Annalisa Adamo², Roberta
Esposito³, Mauro Krampera², Vera Rotondo Aufiero⁴, Alessandra
Camarca⁴, Fabiana Capuano⁴, Laura Pisapia³, Giovanna Del Pozzo³,
Giuseppe Mazzarella⁴, Carmen Gianfrani³ (*¹Chieti, ²Verona, ³Naples,*
⁴Avellino)



THURSDAY, JUNE 19, 2025

TRUMPET 1

16:50 **WORKSHOP 11** (cont.) 17:50 **MUCOSAL IMMUNITY**

17:26 Investigating caudovirales-induced molecular mimicry in Crohn's disease pathogenesis
Carmela Errico (IRCCS San Raffaele Scientific Institute, Milan),
Luca Massimino, Salvatore Spanò, Sabrina Nicolò, Amanda Facchetti, Stefania Cagliani, Matteo Riva, Tommaso Lorenzo Parigi, Silvio Danese, Federica Ungaro (Milan)

17:38 Dual spatial host-mycobacterial gene expression to unveil *Mycobacteria abscessus* pathogenesis in lung tissues
Francesca Nicola (Vita-Salute San Raffaele University, Milan),
Federico Di Marco, Francesca Giannese, Fabio Saliu, Gaia Saldarini, Dejan Lazarevic, Giovanni Tonon, Stefano de Pretis, Daniela Maria Cirillo, Nicola I. Lorè (Milan)

TRUMPET 2

16:50 **WORKSHOP 12** 17:50 **TRANSLATIONAL IMMUNOLOGY**

Chairs: **Maria Rosaria Galdiero** (University of Naples Federico II, Naples),
Alessio Grimaldi (Sapienza University of Rome, Rome)

16:50 Prognostic role of T cell and macrophage subsets and extracellular vesicle markers in new-onset oligoarthritis patients
Federica Raggi (IRCCS G. Gaslini Institute, Genoa), **Chiara Rossi, Simone Pelassa, Federica Briasco, Francesca Antonini, Davide Cangelosi, Silvia Maria Orsi, Genny Del Zotto, Angelo Ravelli, Marco Gattorno, Alessandro Consolaro, Maria Carla Bosco** (Genoa)

17:02 Sex hormone regulation of hematopoietic regeneration after damage
Angelica Mancusi (Bambino Gesù Children's Hospital IRCCS, Rome),
Shirley Genah¹, Alessio Taviani¹, marco rosichini², Carmen Dolores De Luca¹, Francesca Benini¹, Gabriele Volpe¹, Franco Locatelli¹, Enrico Velardi¹ (¹Rome, ²Seattle - USA)

THURSDAY, JUNE 19, 2025

TRUMPET 2

16:50 WORKSHOP 12 (cont.) 17:50 TRANSLATIONAL IMMUNOLOGY

- 17:14 Personalized organ-on-chip model for rheumatoid arthritis treatment
Fabiola Stolfi (*Università del Piemonte Orientale UPO, Novara*), **Francesco Bisconti**², **Hugo Abreu**¹, **Thuy Duong Nguyen**¹, **Federica Dell'Attì**¹, **Giuseppe Cappellano**¹, **Francesca Gervaso**², **Alessandro Polini**², **Annalisa Chiocchetti**¹ (¹Novara, ²Lecce)
- 17:26 CD300e in metabolic disease: a novel perspective on obesity-related dysmetabolism
Simone Pizzini (*University of Padua, Padua*), **Sara Coletta**¹, **Elisabetta Trevelli**¹, **Roberto Vettor**^{1,2}, **Marina de Bernardi**¹ (¹Padua, ²Milan)
- 17:38 B cell subset dynamics and regulation of serum cytokines during pregnancy and early post-partum in women with multiple sclerosis
Martina Severa (*Istituto Superiore di Sanità, Rome*), **Daniela Ricci**, **Francesca Napoli**, **Silvia Bartolomeo**, **Valentina Di Gianvito**, **Eliana Coccia**, **Girolama Marfia**, **Doriana Landi** (*Rome*)

PLENARIA HOTEL GIO

- 17:50 KEYNOTE LECTURE 3
18:35 Chairs: **Francesco Annunziato** (*University of Florence, Florence*), **Silvia Piconese** (*Sapienza University of Rome, Rome*)
- 17:50 Inhibition of the JAK-STAT pathway in inflammatory diseases: Quo vadis?
Massimo Gadina (*National Institute of Arthritis and Musculoskeletal and Skin Diseases, Bethesda - USA*)
- 18:30 Discussion
- 18:35 SIICA GENERAL ASSEMBLY



FRIDAY, JUNE 20, 2025

PLENARIA HOTEL GIO

08:30
10:30

JOINT SYMPOSIUM SIICA-NIBIT TUMOR IMMUNOLOGY



Chairs: **Vincenzo Bronte** (*University of Verona, Verona*),
Massimo Locati (*University of Milan, Milan*)

08:30 Lipids control CD8 T cell fate and function during antitumor response
Teresa Manzo (*University of Turin, Turin*)

08:45 Discussion

08:50 Genome editing of T cells for cancer immunotherapy
Chiara Bonini (*Università Vita-Salute San Raffaele, Milan*)

09:05 Discussion

09:10 Tumor associated antigen-based immunotherapy in pancreatic cancer
Francesco Novelli (*Turin*)

09:25 Discussion

09:30 A subset of immunosuppressive CAFs is regulated by hMena, which drives secretory autophagy and contributes to immunotherapy resistance in NSCLC
Paola Nisticò (*IRCCS - Regina Elena National Cancer Institute, Rome*)

09:45 Discussion

09:50 The immune functions of extracellular traps in the tumor microenvironment
Sabina Sangaletti (*Milan*)

10:05 Discussion

10:10 Decoding how retrotransposable elements regulate T cell functions
Beatrice Bodega Beatrice Bodega (*National Institute of Molecular Genetics / University of Milan, Milan*)

10:25 Discussion

June 17-20, 2025

PERUGIA

SIICA 2025

XV

National Congress

FRIDAY, JUNE 20, 2025

PLENARIA HOTEL GIÒ

10:30

BREAKING NEWS ON INNATE IMMUNE FUNCTIONS

12:10

Chairs: **Renato Ostuni** (*IRCCS San Raffaele Scientific Institute, Milan*),
Irene Mattiola (*Charité - University of Medicine, Berlin - D*)

11:00

Neutrophils drive vascular occlusion, pleomorphic tumour necrosis,
and metastasis

Jose M. Adrover (*The Francis Crick Institute, London - UK*)

11:20

Discussion

11:25

Antigen independent iNKT cells-microbiome crosstalk in intestinal
homeostasis, chronic inflammation and cancer

Federica Facciotti (*University of Milano Bicocca, Milan*)

11:45

Discussion

11:50

Role of neuro-immune communication in the development of
neurotoxic inflammation

Gabriela Constantin (*University of Pavia, Pavia*)

12:10

Discussion

12:15

Relevance of innate immune responses in gene therapies

Anna Kajaste-Rudnitski (*University of Pavia, Pavia*)

12:35

Discussion

FRIDAY, JUNE 20, 2025



FRIDAY, JUNE 20, 2025

PLENARIA HOTEL GIO

12:10
13:00

KEYNOTE LECTURE 4

Chairs: **Marco Cassatella** (*University of Verona, Verona*),
Matteo Iannaccone (*IRCCS San Raffaele Scientific Institute, Milan*)

12:40

The peritoneal cavity immunity: a dynamic complex healing system
Paul Kubes (*University of Calgary, Calgary - CDN*)

13:20

Discussion

13:00
13:30

CLOSING CEREMONY AND AWARDS

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

CELL SIGNALING AND CELL TO CELL COMMUNICATION

- P01 Amniotic fluid stem cell-derived extracellular vesicles educate type 2 conventional dendritic cells to rescue autoimmune disorders in a multiple sclerosis mouse model
Giorgia Manni (*University of Perugia, Perugia*), **Marco Gargaro**, **Doriana Ricciuti**, **Giulia Mencarelli**, **Benedetta Pieroni**, **Estevao Carlos Silva Barcelos**, **Francesco Sarnari**, **Rita Romani**, **Francesca Fallarino** (*Perugia*)

IMMUNODEFICIENCIES

- P02 Skewing towards effector memory T cells induced by CD70 and 4-1BBL triplosensitivity as mechanism of immune dysregulation
Lorenzo Salvati (*University of Florence, Florence*), **Alessio Mazzoni**, **Anna Vanni**, **Samuele Suraci**, **Boaz Palterer**, **Manuela Capone**, **Roberto Semeraro**, **Giulia Lamacchia**, **Lucia Bartoli**, **Francesca Matani**, **Valentina Cosi Becchi**, **Stefania Francalanci**, **Marco Del Carria**, **Emanuele Vivarelli**, **Gianluca Mattei**, **Alessandra Mingrino**, **Lucia Tiberi**, **Rosangela Artuso**, **Marilena Pantaleo**, **Silvia Guarducci**, **Alberto Magi**, **Andrea Matucci**, **Alessandra Vultaggio**, **Paola Parronchi**, **Francesco Liotta**, **Lorenzo Cosmi**, **Laura Maggi**, **Francesco Annunziato** (*Florence*)
- P03 Cxcr4-R334X mouse: a model to study WHIM syndrome pathogenesis and evaluate innovative gene correction treatment
Alessandra Zecchillo (*San Raffaele Telethon Institute for Gene Therapy - SR-TIGET, Milan*), **Martina Fiumara**¹, **Simona Porcellini**¹, **Daniele Canarutto**¹, **Gabriele Pedrazzani**¹, **Valeria Iannello**¹, **Alessandra Cascio Ferro**¹, **João P. Pereira**², **Luigi Naldini**¹, **Anna Villa**², **Samuele Ferrari**¹, **Maria Carmina Castiello**^{1,2} (*¹Milan, ²New Haven - USA, ³Rozzano*)
- P04 Beyond X-linked agammaglobulinemia: atypical BTK variants and immune dysregulation
Mattia Moratti (*University of Rome Tor Vergata, Rome*), **Emma Manno**, **Elisa Profeti**, **Giulio Bausani**, **Marco Lecis**, **Beatrice Rivalta**, **Veronica Santilli**, **Silvia Di Cesare**, **Cristina Cifaldi**, **Donato Amodio**, **Andrea Finocchi**, **Giuseppe Palumbo**, **Gigliola Di Matteo**, **Paolo Palma**, **Caterina Cancrini** (*Rome*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P05 Inborn errors of immunity meet with real-life clinical settings: a single center experience of genetic profiling in humoral immune defects
Alessandro Andriano (*University of Bari Aldo Moro, Bari*), **Vanessa Desantis**¹, **Carolina Marasco**¹, **Antonio Marzollo**², **Silvia Bresolin**², **Nicoletta Resta**¹, **Lucia Di Marzo**¹, **Fabrizio Pappagallo**¹, **Antonella Mascolo**¹, **Ingrid Caradonna**¹, **Simona D'Amore**¹, **Angelo Vacca**¹, **Antonio Giovanni Solimando**¹ (*¹Bari, ²Padua*)

IMMUNOTHERAPY

- P06 Definition of CTLA4 haplotypes and their worldwide genetic diversity
Eduardo Donadi (*University of São Paulo, Ribeirão Preto, Brazil*), **Rafaela Barbosa**¹, **Cinthia Alves**¹, **Erick Castelli**², **Celso Mendes Junior**¹, **Nicolas Vince**³, **Leandro Colli**¹ (*¹Ribeirão Preto - BR, ²Botucatu - BR, ³Nantes - F*)
- P07 Lipid-loaded macrophages promote resistance to immunotherapy in melanoma
Greta Meregalli (*Humanitas University, Rozzano*), **Marta Pandini**, **Giulia Marelli**, **Federica Portale**, **Gianluca Basso**, **Desiree Giuliano**, **Gabriele De Simone**, **Chiara Camisachi**, **Dyvia Mishra**, **Diletta Di Mitri** (*Rozzano*)
- P08 Characterization of the molecular mechanisms underlying bone marrow stromal cell-induced multiple myeloma resistance to CAR-T cell therapy
Barbara Mariotti (*University of Verona, Verona*), **Anna Russignan**, **Giorgia DeAngeli**, **Cristina Tecchio**, **Marco Cassatella**, **Flavia Bazzoni**, **Mauro Krampera** (*Verona*)
- P09 Human 3D model of bone metastasis to study the potential therapeutic role of natural killer cells
Monica Parodi (*IRCCS Ospedale Policlinico San Martino, Genoa*), **Paola Orecchia**, **Maria Raineri**, **Sebastian Sulis Sato**, **Maddalena Mastrogiacomo**, **Anita Muraglia**, **Simonetta Astigiano**, **Filippo Piombo**, **Guido Ferlazzo**, **Massimo Vitale** (*Genoa*)
- P10 Donor-derived anti-leukemia CTL for the control of leukemia relapse in high-risk children after haploidentical HSCT
Daniela Montagna (*University of Pavia, Pavia*), **Matteo Tanzi**, **Enrica Montini**, **Patrizia Comoli**, **Gloria Taurino**, **Antonia Moretta**, **Tommaso Mina**, **Stella Boghen**, **Giovanna Giorgiani**, **Marco Zecca** (*Pavia*)

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P11 Characterizing thymic function in pediatric and young adult patients receiving allo-HCT using CD31 and CD38 markers
Shirley Genah (*Bambino Gesù Children Hospital, Rome*), **Devin Mcavoy**¹, **Alessio Taviani**², **Kinga Hosszu**¹, **Federica Galaverna**², **Alexandre Troullioud Lucas**¹, **Hannah Kunstek**³, **Marialuigia Catanoso**², **Coco de Koning**³, **Angelica Mancusi**², **Pietro Merli**², **Valentina Bertaina**², **Francesca Del Bufalo**², **Stefan Nierkens**³, **Franco Locatelli**², **Jaap-Jan Boelens**¹, **Enrico Velardi**²
(¹New York - USA, ²Rome, ³Utrecht - NL)
- P12 Flow cytometric characterization of chimeric antigen receptor T-cells before and after infusion in patients with non-Hodgkin's B-cell lymphoma
Francesca Matani (*University of Florence, Florence*), **Alessio Mazzoni**¹, **Anna Vanni**¹, **Lucia Bartoli**^{1,2}, **Giulia Lamacchia**¹, **Lorenzo Salvati**¹, **Manuela Capone**¹, **Stefania Francalanci**¹, **Valentina Cosi Becchi**¹, **Laura Maggi**¹, **Benedetta Peruzzi**¹, **Sara Pratesi**¹, **Sara Bencini**¹, **Roberto Caporale**¹, **Ilaria Cutini**¹, **Alessandro Maria Vannucchi**¹, **Francesco Liotta**¹, **Lorenzo Cosmi**¹, **Chiara Nozzoli**¹, **Francesco Annunziato**¹ (*¹Florence, ²Palermo*)
- P13 Zeaxanthins promote anti-inflammatory and neuroprotective effects by aryl hydrocarbon receptor activation
Benedetta Pieroni (*University of Perugia, Perugia*), **Giorgia Manni**¹, **Giulia Mencarelli**¹, **Doriana Ricciuti**¹, **Francesco Sarnari**¹, **Alessandro Pinzi**¹, **Estevão Carlos Silva Barcelos**¹, **Marco Gargaro**¹, **Diana Amantea**², **Francesca Fallarino**¹ (*¹Perugia, ²Rende*)
- P14 A polyclonally expanded CD8 T cell repertoire is a strong correlate of tumour regression following Treg-targeted immunotherapy
Lorenzo Capitani (*UK Dementia Research Institute, Cardiff - UK*), **Sarah Lauder**¹, **Kathryn Smart**¹, **Gayathri Nageswaran**², **Suzanne Byrne**², **Benny Chain**², **Andrew Godkin**¹, **Awon Gallimore**¹ (*¹Cardiff - UK, ²London - UK*)
- P15 Interactions between *E. coli* outer membrane vesicles (OMV) and human dendritic cells (DC) results in DC maturation and engulfment of OMV
Silvia Tamburini (*IRCCS Ospedale Policlinico San Martino, Genoa*), **Raffaella Meazza**¹, **Fabio Falleroni**¹, **Valentina Delli Zotti**¹, **Gabriele Di Lascio**², **Alberto Grandi**², **Guido Grandi**³, **Guido Ferlazzo**¹ (*¹Genoa, ²Siena, ³Trento*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

NEUROIMMUNOLOGY

- P16 The impact of S100B silencing on multiple sclerosis model: the role of glial cells
Gabriele Di Sante (*University of Perugia, Perugia*), **Mariangela Ruggirello**², **Elisasbetta Clementi**², **Anna Maria Stabile**¹, **Alessandra Pistilli**¹, **Federica Valeriani**², **Vincenzo Romano Spica**², **Francesco Ria**², **Mario Rende**¹, **Fabrizio Michetti**² (¹Perugia, ²Rome)
- P17 CD103-CD8+ T cells promote neurotoxic inflammation in Alzheimer's disease via granzyme K-PAR-1 signaling
Eleonora Terrabuio (*University of Verona, Verona*), **Enrica Caterina Pietronigro**, **Vittorina Della Bianca**, **Antonella Calore**, **Elena Zenaro**, **Alessandro Bani**, **Matteo Calgaro**, **Nicola Vitulo**, **Pallab Majumder**, **Nikolaos Vareltsakis**, **Fabiana Maineri**, **Ermanna Turano**, **Giulia Finotti**, **Monica Castellucci**, **Barbara Rossi**, **Bruno Bonetti**, **Gabriela Constantin** (*Verona*)
- P18 The impact of repeated traumatic brain injuries on the health of professional rugby players, with a focus on the role of circulating mtDNA
Valentina Selleri (*University of Modena and Reggio Emilia, Modena*), **Roberta D'Alisera**¹, **Giorgia Sinigaglia**¹, **Giada Zanini**¹, **Giulia Micheloni**¹, **Gustavo Savino**¹, **Anna Vittoria Mattioli**², **Marcello Pinti**^{1,2}, **Milena Nasi**¹ (¹Modena, ²Bologna)
- P20 How high efficacy therapy modulates antiviral immune responses in multiple sclerosis patients
Silvia D'Orso (*IRCCS Santa Lucia Foundation, Rome*), **Gisella Guerrera**¹, **Mario Picozza**¹, **Elena Olivieri**¹, **Marta Pirronello**¹, **Silvia Corbisiero**¹, **Alice Verdiani**¹, **Andrea Misiti**¹, **Daniela Angelini**¹, **Serena Ruggeri**¹, **Maria Chiara Buscarinu**¹, **Carla Tortorella**¹, **Marco Salvetti**¹, **Claudio Gasperini**¹, **Bruno Gran**², **Luca Battistini**¹, **Giovanna Borsellino**¹ (¹Rome, ²Nottingham - UK)

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P21 Study of T cell subsets in peripheral blood of multiple sclerosis patients treated with anti-CD20 mAb therapy
Miriam Di Caro (*University of Palermo, Palermo*), **Marco Pio La Manna**, **Gabriele Sorbello**, **Nadia Caccamo**, **Paolo Ragonese**, **Giuseppe Salemi**, **Gianluca Guercio**, **Francesca Buffa**, **Miriam Sciortino**, **Fulvio Brucato**, **Francesco Dieli**, **Serena Meraviglia** (*Palermo*)
- P22 Sympathetic neuroimmune communication in lymphoid organs
Sofia Rossini (*University of Perugia, Perugia*), **Sara Ambrosino**, **Miruna Viviana Oprea**, **Ciriana Orabona** (*Perugia*)
- P23 Periprandial high fat diet feeding impacts the blood count of neutrophils via cholinergic receptor nicotinic alpha 7 activation
Giovanni Battista Vingiani (*University of Milan, Milan*), **Anna Parolini**, **Lorenzo Da Dalt**, **Annalisa Moregola**, **Alessia Rubino**, **Ottavia Terenghi**, **Laura Gullà**, **Marta Iaia**, **Fabrizia Bonacina**, **Danilo Norata**, **Andrea Baragetti** (*Milan*)

NK CELLS AND ILC

- P24 Impact of genetic lysosomal acid lipase deficiency on the immune system: focus on NK cells
Carola Garavaglia (*University of Milan, Milan*), **Federica Cetti**¹, **Fabrizia Bonacina**¹, **Rossella Bellini**¹, **Tiziano Lucchi**¹, **Annalisa Madeo**², **Liliana Grigore**³, **Albina Tummolo**⁴, **Fabio Nascimbeni**⁵, **Stefano Romeo**⁶, **Laura D'erasmo**⁷, **Giuseppe Indolfi**⁸, **Gianpaolo Mangia**⁹, **Antonino Bruno**¹, **Maria Teresa Palano**¹, **Barbara Bassani**¹, **Danilo Norata**¹, **Monica Gomaraschi**¹ (*¹Milan, ²Genoa, ³Balsamo, ⁴Bari, ⁵Modena, ⁶Gothenburg - S, ⁷Rome, ⁸Florence, ⁹Bergamo*)
- P25 Innate lymphoid cell phenotypic and functional alterations in systemic juvenile idiopathic arthritis
Linda Quatrini (*Ospedale Pediatrico Bambino Gesù, Rome*), **Cecilia Ciancaglini**, **Ivan Caiello**, **Silvia Santopolo**, **Manuela Pardeo**, **Valentina Matteo**, **Elena Loricchio**, **Antonella Insalaco**, **Marco Natale**, **Arianna de Matteis**, **Nicola Tumino**, **Claudia Bracaglia**, **Paola Vacca**, **Lorenzo Moretta**, **Fabrizio De Benedetti**, **Giusi Prencipe** (*Rome*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P26 Inhibition of DNAM-1-mediated intracellular signals and cytotoxicity upon NKG2D engagement in human NK cells
Caterina Marangio (*La Sapienza University of Rome, Rome*), **Nadia Milito**, **Erisa Putro**, **Alessia Carnevale**, **Cristina Capuano**, **Alessandra Zingoni**, **Marco Cippitelli**, **Angela Santoni**, **Rossella Paolini**, **Rosa Molfetta** (*Rome*)
- P27 Macrophages regulate ILC2 responsivity and CTLA-4 expression in the tumor microenvironment
Cecilia Ciancaglini (*IRCCS Bambino Gesù Children's Hospital, Rome*), **Silvia Santopolo**¹, **Stefania Martini**², **Francesca Scordamaglia**², **Giuseppe Pietropaolo**¹, **Mattia Laffranchi**¹, **Giuseppe Sciumè**¹, **Guido Ferlazzo**², **Paola Vacca**¹, **Lorenzo Moretta**¹, **Linda Quatrini**¹ (*¹Rome, ²Genoa*)
- P28 Transcriptional programs of circulating natural killer cells reaching inflamed intestine
Arianna Maria Candelotti (*Sapienza University of Rome, Rome*), **Giuseppe Pietropaolo**^{1,2}, **Giordana Garzillo**¹, **Stephen R. Brooks**³, **Binod Regmi**³, **Helena Stabile**¹, **Cinzia Fionda**¹, **Massimo Gadina**³, **Giuseppe Sciumè**¹ (*¹Rome, ²Pozzilli, ³Bethesda - USA*)
- P29 Optimization of a CRISPR-Cas9-based genome editing protocol for human and murine innate lymphocytes
Giordana Garzillo (*Sapienza University of Rome, Rome*), **Giuseppe Pietropaolo**¹, **Arianna Maria Candelotti**¹, **Chiara Di Censo**¹, **Jonas Seuren**¹, **Sara Bartolini**¹, **Marco De Santis**¹, **Jibum Choi**¹, **Elettra Asuka Aurora Celani**¹, **Cinzia Fionda**¹, **Helena Stabile**¹, **Giuseppe Sciumè**¹ (*¹Roma, ²Pozzilli*)
- P30 Effects of glucocorticoid therapy on immune reconstitution and function upon hematopoietic stem cell transplantation in cancer patients
Silvia Santopolo (*IRCCS Bambino Gesù Children's Hospital, Rome*), **Cecilia Ciancaglini**¹, **Han-Yu Shih**², **Paola Vacca**¹, **Lorenzo Moretta**¹, **Linda Quatrini**¹ (*¹Rome, ²Bethesda - USA*)

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P31 Role of placenta specific 8 in the regulation of innate lymphoid cells function
Ludovica Schiano (*Sapienza University of Rome, Rome*), **Lorenzo Lucantonio**, **Silvia Ruggeri**, **Eleonora Russo**, **Giovanni Bernardini**, **Giuseppe Sciumè**, **Mattia Laffranchi**, **Silvano Sozzani**, **Angela Gismondi**, **Helena Stabile**, **Cinzia Fionda** (*Rome*)
- P32 Recombinant zoster vaccine in adult primary antibody deficiency patients: responsiveness, modulation of NK cell compartment and Fc-dependent antibody functions
Daniel Ciuti (*Sapienza University of Rome, Rome*), **Cristina Capuano**, **Federica Pulvirenti**, **Gabriella Palmieri**, **Isabella Quinti**, **Ricciarda Galandrini** (*Rome*)
- P33 Multiple myeloma cells shift the fate of cytolytic group 2 innate lymphoid cells (ILC2s) towards TIGIT-mediated cell death
Fabiana Drommi (*University of Messina, Messina*), **Alessia Calabrò**¹, **Gaetana Pezzino**¹, **Grazia Vento**¹, **Josephine Freni**¹, **Gregorio Costa**¹, **Riccardo Cavaliere**¹, **Irene Bonaccorsi**¹, **Alessandro Allegra**¹, **Guido Ferlazzo**², **Claudia De Pasquale**¹, **Stefania Campana**¹ (*¹Messina, ²Genoa*)
- P34 Evaluation of NK cells in neuropathic pain: correlation between degranulation and μ opioid expression
Lucia Carmela Passacatini (*IRCCS San Raffaele, Rome*), **Sara Ilari**¹, **Saverio Nucera**², **Federica Scarano**², **Roberta Macri**², **Rosamaria Caminiti**², **Maria Serra**², **Valeria Mazza**², **Francesca Oppedisano**², **Jessica Maiuolo**², **Ernesto Palma**², **Valentina Malafoglia**¹, **William Raffaelli**³, **Vincenzo Mollace**², **Carolina Muscoli**² (*¹Rome, ²Catanzaro, ³Rimini*)
- P35 Impact of HLA-B -21M/T dimorphism on NK cell anti-leukemia activity in AML patients receiving haploidentical hematopoietic stem cell transplantation with post-transplant cyclophosphamide
Natalia Colomar, **Carola Perrone**², **Paolo Canevali**², **Fabrizio Loiacono**², **Annamaria Raiola**², **Massimiliano Gambella**², **Alessandra Bo**², **Guido Ferlazzo**² (*¹Barcelona - E, ²Genoa*)
Raffaella Meazza (*IRCCS Ospedale Policlinico San Martino, Genoa*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P36 Tissue-resident FcεR1γ⁻ adaptive Natural Killer cells accumulate in Cytomegalovirus-infected carotid plaques
Esther Bertuccio (*University of Genoa, Genoa*), **Josephine Freni**¹, **Maria Crescenti**¹, **Emma Di Carlo**², **Filippo Benedetto**¹, **Paolo Carrega**¹, **Guido Ferlazzo**³, **Irene Bonaccorsi**¹ (¹Messina, ²Chieti, ³Genova)

OTHER TOPICS

- P37 Evaluation of the antitumor effects of extra-virgin olive oil phenolic compounds extracted by a novel "green" chemistry approach: focus on oxidative genotoxic stress and inflammation
Michela Tozzi (*Istituto Superiore di Sanità, Rome*), **Paola Rinzo**¹, **Roberto Mattioli**¹, **Federica Moschella**¹, **Maria Cristina Quattrini**¹, **Donatella Pietraforte**¹, **Ilenia Laterza**¹, **Zaira Maroccia**¹, **Omar Leoni**¹, **Daniele Macchia**¹, **Massimo Spada**¹, **Sofia Tomasoni**², **Ranieri Verin**³, **Luciana Mosca**¹, **Alessia Fabbri**¹, **Laura Bracci**¹ (¹Rome, ²Legnaro, ³Pisa)
- P38 Immunological alterations in chronic fatigue syndrome: T-cell imbalance, cytokine dysregulation, and gender-specific differences
Steliyan Petrov (*Medical University Plovdiv, Plovdiv*), **Martina Bozhkova**¹, **Maria Ivanovska**¹, **Teodora Kalfova**¹, **Katya Vaseva**¹, **Dobrina Dudova**¹, **Mariana Murdjeva**¹, **Hristo Taskov**¹, **Yana Todorova**², **Maria Nikolova**², **Michael Petrov**¹ (¹Plovdiv - BG, ³Sofia - BG)
- P39 A magnifying glass on the immunological properties of lipopolysaccharide (LPS) from the marine Gram-negative bacterium *Rheinheimera japonica*
Emanuela Andretta (*University of Naples Federico II, Naples*), **Stefania De Chiara**, **Francesca Olmeo**, **Luca De Simone Carone**, **Flaviana Di Lorenzo** (*Naples*)
- P40 Calcineurin-nuclear factor of activated T cells axis in early stem cell commitment: a novel pathway in tissue regeneration
Stefano Cozzi (*University of Milano-Bicocca, Milan*), **Laura Marongiu**, **Marco Galli**, **Giulia Stucchi**, **Giuseppe Rocca**, **Anna Celant**, **Metello Enzo Innocenti**, **Francesca Granucci** (*Milan*)

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P41 Phenotypical and functional characterization of circulating immune cells in systemic mastocytosis patients
Stefania Francalanci (*University of Florence*), **Sara Bencini**, **Manuela Capone**, **Anna Vanni**, **Giulia Lamacchia**, **Lucia Bartoli**, **Francesca Matani**, **Valentina Cosi Becchi**, **Alessio Mazzoni**, **Francesco Annunziato**, **Francesco Liotta**, **Lorenzo Cosmi**, **Laura Maggi** (*Florence*)
- P42 Modulating leukocyte migration through electric stimulation
Giulia Camoni (*University of Bern, Bern, Switzerland*), **Britta Engelhardt¹**, **Diego Ulisse Pizzagalli^{1,2}** (*¹Bern - CH, ²Lugano - CH*)
- P43 The role of Complement component C7 in endometriosis: a decoy for the assembling terminal complement complex?
Miriam Toffoli, **Silvia Pegoraro**, **Gabriella Zito**, **Aurora Santin**, **Andrea Balduit**, **Federico Romano**, **Giovanni Di Lorenzo**, **Alessandro Mangogna**, **Barbara Fogar**, **Giulia Canarutto**, **Silvano Piazza**, **Giorgia Giroto**, **Giuseppe Ricci**, **Roberta Bulla** (*Trieste*), **Chiara Agostinis** (*Institute for Maternal and Child Health, IRCCS Burlo Garofolo, Trieste*)
- P44 Trophoblast organoid as model to recapitulate complement system dysfunction in preeclampsia
Barbara Fogar (*Università degli studi di Trieste, Trieste*), **Miriam Toffoli**, **Andrea Balduit**, **Silvia Pegoraro**, **Tamara Stampalija**, **Davide Selvestrel**, **Davide De Santo**, **Giovanni Sorrentino**, **Giuseppe Ricci**, **Chiara Agostinis**, **Manola Comar**, **Roberta Bulla** (*Trieste*)

TUMOR IMMUNOLOGY

- P45 Mucosal associated invariant T cells infiltrating resectable non-small cell lung cancer exhibit a tissue resident memory phenotype, enhanced metabolic activation and strong pro-inflammatory properties
Sara De Biasi (*University of Modena and Reggio Emilia, Modena*), **Domenico Lo Tartaro¹**, **Beatrice Aramini²**, **Maristella Leccese¹**, **Miriam D'Angerio¹**, **Rosanna Di Tinco¹**, **Alessandra Dubini²**, **Matteo Costantini²**, **Gianluca Degliesposti¹**, **Alin Ciobanu¹**, **Elena Santacroce¹**, **Nikolaos Paschalidis³**, **Katarzyna Piwocka⁴**, **Gianluca Carnevale¹**, **Lara Gibellini¹**, **Andrea Cossarizza¹** (*¹Modena, ²Forlì, ³Athens - GR, ⁴Warsaw - PL*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P46 Exploring mechanisms of immunotherapy resistance in ovarian cancer
Elisabetta Diana (*Humanitas, Rozzano*), **Giulia Marelli**¹, **Riccardo Zadro**¹, **Laura Mannarino**¹, **Sergio Marchini**¹, **Gabriele De Simone**¹, **Chiara Camisachi**¹, **Gianluca Basso**¹, **Marco Erreni**¹, **Andrea Doni**¹, **Giovanni Scambia**², **Domenica Lorusso**¹, **Diletta Di Mitri**¹ (¹Rozzano, ²Rome)
- P47 Effect of *Mycobacterium tuberculosis* on human lung macrophages: exploring the role in the context of lung cancer
Gina Memoli (*University of Naples Federico II, Naples*), **Francesco Palestra**¹, **Ewa Maj**², **Noemi Maria Giorgiano**¹, **Leonardo Cristinziano**¹, **Anne Lise Ferrara**¹, **Remo Poto**¹, **Annagioia Ventrici**¹, **Luca Modestino**¹, **Maria Rosaria Galdiero**¹, **Gianni Marone**¹, **Alfonso Fiorelli**¹, **Gilda Varricchi**¹, **Stefania Loffredo**¹ (¹Naples, ²Wroclaw - PL)
- P48 Characterization of B cells in murine models of triple-negative breast cancer
Valentina Sperto (*IRCCS San Raffaele Scientific Institute, Milan*), **Maria Nelli**¹, **Charles Perou**², **Mirela Kuka**¹ (¹Milan, ²Chapel Hill - USA)
- P49 Key role of IL-33-activated eosinophils in enhancing tumor immunovisibility and dendritic cell recruitment
Fabrizio Mattei (*Istituto Superiore di Sanità, Rome*), **Adriana Rosa Gambardella**, **Caterina Antonucci**, **Lucrezia Gambardella**, **Giuseppe Parrottino**, **Francesco Noto**, **Adele De Ninno**, **Luca Businaro**, **Donatella Pietraforte**, **Paola Matarrese**, **Giovanna Schiavoni** (*Rome*)
- P50 Role of the atypical receptor CCRL2 in shaping immune responses in lung cancer microenvironment
Stefania Zini (*University of Brescia, Brescia*), **Tiziana Schioppa**^{1,2}, **Francesca Sozio**³, **Mattia Laffranchi**³, **Valentina Salvi**¹, **Laura Tiberio**¹, **Daniela Bosisio**¹, **Barbara Bottazzi**², **Alberto Mantovani**², **Silvano Sozzani**³, **Annalisa Del Prete**^{1,2} (¹Brescia, ²Rozzano, ³Rome)
- P51 Transferrin receptor CD71 sustains regulatory T cells in gut homeostasis and promotes effective anti-tumor immunity
Alessandra Pinzon Grimaldos (*Sapienza University of Rome, Rome*), **Ilenia Pacella**, **Tiziano Giacomelli**, **Giorgia Sartori**, **Giuseppe Pietropaolo**, **Silvia Piconese** (*Rome*)

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P52 Epigenetic control of cancer stem cell immunoevasion: new opportunities from KDM1b
Martina Musella (*Università Cattolica del Sacro Cuore, Rome*), **Ester Maccafeò**, **Nicoletta Manduca**, **Francesca Luongo**, **Antonella Sistigu** (*Rome*)
- P53 HFE polymorphism negatively affects pancreatic cancer progression and anti-tumor immune response
Ivan Depetro (*University of Turin, Turin*), **Alessandro Scagliotti**¹, **Giorgia Tiberi**¹, **Paula Ariadna Diez**¹, **Federica Rubbino**², **Luana Greco**², **Silvia Brugiapaglia**¹, **Claudia Curcio**¹, **Francesco Novelli**¹, **Luigi Andrea Giuseppe Laghi**³, **Paola Cappello**¹ (¹*Turin*, ²*Rozzano*, ³*Parma*)
- P54 Luspatercept treatment modulates immune-regulatory subsets in subjects with myelodysplastic syndrome with ring sideroblasts
Valentina Rubino (*University of Naples Federico II, Naples*), **Stefania Leone**¹, **Francesco Grimaldi**¹, **Mara Memoli**¹, **Scalia Giulia**¹, **Annamaria Vincenzi**¹, **Maria Di Perna**², **Giuseppe Cerciello**³, **Antonio Vassallo**⁴, **Fabrizio Pane**¹, **Alessandra Picardi**¹, **Giuseppe Terrazzano**⁴, **Giuseppina Ruggiero**¹, **Flavia Carriero**⁴ (¹*Naples*, ²*Salerno*, ³*Benevento*, ⁴*Potenza*)
- P55 Characterization of IDO1H350A mouse model expressing a loss-of function mutant of the enzyme indoleamine 2,3-dioxygenase 1
Sara Ambrosino (*University of Perugia, Perugia*), **Sofia Rossini**, **Giada Mondanelli**, **Miruna Viviana Oprea**, **Ciriana Orabona** (*Perugia*)
- P56 Involvement of innate lymphocytes in the pathogenic mechanisms of colorectal cancer
Miriana Fallo (*University of Palermo, Palermo*), **Marianna Lo Pizzo**, **Marco Pio La Manna**, **Giusto Davide Badami**, **Mahsa Rafieiyan**, **Francesco Dieli**, **Nadia Caccamo** (*Palermo*)
- P57 Role of IL17A in defining cancer extracellular matrix composition and as a consequence affecting immune infiltration
Paula Ariadna Diez (*University of Turin, Turin*), **Giorgia Tiberi**, **Ermes Candiello**, **Alessandro Scagliotti**, **Ivan Depetro**, **Leonardo Morati**, **Annapaola Andolfo**, **Francesco Novelli**, **Paola Cappello** (*Turin*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P59 Unravelling the spatial and transcriptional evolution of type 1 dendritic cells during lung cancer progression
Lucia Lopez (*International Centre for Genetic Engineering and Biotechnology, Trieste*), **Giulia Maria Piperno**¹, **Roberto Amadio**¹, **Sonal Joshi**², **Federica Benvenuti**¹ (¹*Trieste*, ²*San Francisco - USA*)
- P60 Generation of Kras/p53 lines to study local immunity in lung cancer
Emma Dalla Mora (*International Centre for Genetic Engineering and Biotechnology, Trieste*), **Lucia Lopez**, **Federica Benvenuti** (*Trieste*)
- P61 Overcoming resistance in malignant pleural mesothelioma through EZH2 inhibition and ferroptosis induction
Martina Delsignore (*University of Piemonte Orientale, Novara*), **Mara Gagliardi**, **Gaia Cassinari**, **Marco Corazzari**, **Chiara Porta** (*Novara*)
- P62 Dissection of neutrophil heterogeneity in glioblastoma
Lucia Zotti¹, **Nicolò Gavioli**², **Alessandro Mesaglio**¹, **Matteo Simonelli**² (¹*Pieve Emanuele, Rozzano*), **Raffaella Bonecchi** (*IRCCS Humanitas Research Hospital, Rozzano*)
- P63 Human-in-mice model for studying natural killer cell cross-talk with non-small-cell lung cancer bone metastases
Paola Orecchia (*IRCCS Ospedale Policlinico San Martino, Genoa*), **Monica Parodi**¹, **Simonetta Astigiano**¹, **Laura Emionite**¹, **Paolo Carrega**², **Valentina Delli Zotti**¹, **Elisa Pilot**¹, **Simona Pigozzi**¹, **Riccardo Ferracini**³, **Guido Ferlazzo**¹, **Massimo Vitale**¹ (¹*Genoa*, ²*Messina*, ³*Turin*)

VACCINES

- P65 Longitudinal study on SARS-CoV-2 mRNA vaccine immunogenicity across individuals with different immunocompromising conditions: heterogeneity in the immune response and impact of omicron-adapted boosters
Annalisa Ciabattini (*University of Siena, Siena*), **Elena Pettini**, **Fabio Fiorino**, **Jacopo Polvere**, **Simone Lucchesi**, **Chiara Coppola**, **Simone Costagli**, **Gabiria Pastore**, **Anna Sicuranza**, **Monica Tozzi**, **Arianna Lippi**, **Francesca Panza**, **Monica Bocchia**, **Alessandro Bucalossi**, **Guido Garosi**, **David Bennet**, **Sonia Bernazzali**, **Massimiliano Fabbiani**, **Francesca Montagnani**, **Donata Medaglini** (*Siena*)

June 17-20, 2025

PERUGIA

POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

- P66 Evaluation of broadly functional antibodies through the assessment of ADCC against HIV Env and Tat proteins: insights for HIV vaccine development
Elena Torreggiani (*University of Ferrara, Ferrara*), **Mara Martino**¹, **Beatrice Dallan**¹, **Aurelio Cafaro**², **Antonella Tripiciano**², **Vittorio Francavilla**², **Flavia Mancini**², **Masimo Campagna**², **Orietta Picconi**², **Cecilia Sgadari**², **Davide Proietto**¹, **Martina De Lauretis**¹, **Enrico Tassani**¹, **Paolo Monini**², **Antonella Caputo**¹, **Riccardo Gavioli**¹, **Barbara Ensoli**², **Francesco Nicoli**¹ (¹Ferrara, ²Rome)
- P67 On the adjuvanticity of hyaluronan: the case of a SARS-CoV-2 vaccine
Anna Dalla Pietà, **Beatrice Genova** (*Veneto Oncology Institute, Padua*), **Alessandro Penna**, **Alessandro Sinigaglia**, **Stefania Vogiatzis**, **Luisa Barzon**, **Matteo Pagliar**, **Francesco Bonfante**, **Filippo Torrigiani**, **Sofia Tomasoni**, **Ranieri Verin**, **Anna Tosi**, **Debora Carpanese**, **Roberta Sommaggio**, **Vito Barbieri**, **Silvia Dalla Santa**, **Gaia Zuccolotto**, **Antonella Grigoletto**, **Gianfranco Pasut**, **Antonio Rosato** (*Padua*)
- P68 Mode of action of nanoparticles as carrier for bacterial glycoconjugate vaccines
Camilla Senese, **Bruna Clemente**, **Francesca Schiavetti**, **Filippo Carboni**, **Bar Philosof** (*GSK, Siena*), **Roberta Cozzi**, **Barbara Brogioni**, **Simona Tavarini**, **Michela Brazzoli**, **Maria Romano**, **Annalisa Ciabattini**, **Immaculada Margarit Y Ros**, **Oretta Finco**, **Donata Medaglini**, **Monia Bardelli** (*Siena*)



POSTER SESSION 1 - JUNE 18, 2025 - 13:30-14:30

EPIGENETICS

- P69 Sex-specific transcriptional and epigenetic reprogramming occurs in peripheral blood neutrophils from chronic obstructive pulmonary disease patients
Barbara Mariotti (*University of Verona, Verona*), **Chiara Bracaglia**, **Sara Gasperini**, **Giulia Sartori**, **Ernesto Crisafulli**, **Flavia Bazzoni** (*Verona*)
- P70 Epigenetic control of the C1 complex: insights from C1Q gene expression analysis
Silvia Pegoraro (*IRCCS Materno Infantile Burlo Garofolo, Trieste*), **Andrea Balduiti**¹, **Alessandro Mangogna**¹, **Miriam Toffoli**¹, **Barbara Fogar**¹, **Gabriella Zito**¹, **Uday Kishore**², **Giuseppe Ricci**¹, **Chiara Agostinis**¹, **Roberta Bulla**¹ (*¹Trieste, ²Al Ain - UAE*)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

AUTOIMMUNITY

- P71 New blood markers of microvascular damage in systemic sclerosis
Annalisa Villa (*Sapienza University of Rome, Rome*), **Chiara Pellicano**¹, **Giancarlo D'Ippolito**¹, **Amalia Colalillo**¹, **Umberto Basile**², **Antonietta Gigante**¹, **Edoardo Rosato**¹ (*¹Rome, ²Latina*)
- P72 Peripheral B cell imbalances and T-bet+ B cell expansion in autoimmune liver disorders
Silvia D'Orso (*Sapienza University of Rome, Rome*), **Francesca La Gualana**, **Francesca Oliva**, **Annalisa Villa**, **Klara Radovik**, **Anthony Vignone**, **Guido Carpino**, **Vincenzo Cardinale**, **Silvia Acati**, **Massimo Fiorilli**, **Silvia Piconese**, **Marcella Visentini** (*Rome*)
- P73 Study of Immuno-modulatory effect of *Echinococcus granulosus* on the inflammatory response in Algerian patients with Crohn's disease
Lila Khelifi (*Team 'Cytokines and NO Synthases/ Immunity and Pathogenesis' Laboratory of Cellular and Molecular Biology - FSB - USTHB, Algeria - DZ*), **Rania Boussa**, **Fahima Ameur**, **Imene Soufli**, **Manel Amri**, **Hou da Belguendouz**, **Hakim Chatter**, **Mohand Amoura**, **Abdenmour Zeggane**, **Assia Slimani**, **Nassim Sid Idris**, **Chafia Touil-Boukoffa** (*Algiers - DZ*)
- P74 Single-cell RNA and TCR sequencing suggests a key role for tissue-infiltrating EOMES+Tr1-like cells and their circulating precursors in autoimmune diseases
Camilla Righetti (*Fondazione Istituto Nazionale di Genetica Molecolare, Milan*), **Petra Dad'ová**, **Eugenia Galeota**, **Nadia Pulvirenti**, **Sergio Abrignani**, **Jens Geginat** (*Milan*)
- P75 Psoriasis-related miRNAs activate NK cells by a complex pDC/ monocyte/NK cell crosstalk
Gaia Giongrandi (*University of Brescia, Brescia*), **Valentina Salvi**¹, **Carolina Gaudenzi**¹, **Helena Stabile**², **Angela Gismondi**², **Silvano Sozzani**², **Daniela Bosisio**¹ (*¹Brescia, ²Rome*)
- P76 Efficacy and safety of mepolizumab 300 mg in Eosinophilic P75 granulomatosis with polyangiitis: a meta-analysis of 8 retrospective studies
Federico Spataro (*University of Bari Aldo Moro, Bari*), **Vanessa Desantis**, **Palma Carlucci**, **Monica Montagnani**, **Attilio Di Girolamo**, **Angelo Vacca**, **Roberto Ria**, **Antonio Giovanni Solimando** (*Bari*)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

CYTOKINES AND OTHER SOLUBLE MEDIATORS

- P77 Unravelling the impact of targeting IL-17RA/IL-17RC in cystic fibrosis during chronic lung infections
Chiara Ferrari (IRCCS San Raffaele Scientific Institute, Milan), **Fabio Salii¹**, **Giulia Rizzo²**, **Francesca Nicola¹**, **Carla Chernichero¹**, **Daniela Guidone³**, **Federico Di Marco¹**, **Valeria Capurro⁴**, **Nicoletta Pedemonte⁴**, **Cristina Cigana¹**, **Daniela Maria Cirillo¹**, **Luis Juan Galiotta³**, **Nicola I Lorè¹** (¹Milan, ²Pieve Emanuele, ³Pozzuoli, ⁴Genoa)
- P78 Normothermic machine perfusion and inflammatory mediators adsorption in extended criteria kidney transplantation
Giandomenico Amico (Ri.Med Foundation, Palermo), **Duilio Pagano**, **Rosalía Busà**, **Margot Lo Pinto**, **Ivan Vella**, **Agita Jukna**, **Sergio Calamia**, **Salvatore Piazza**, **Paola Salis**, **Barbara Buscemi**, **Pier Giulio Conaldi**, **Valentina Agnese**, **Massimo Pinzani**, **Simone Dario Scilabra**, **Salvatore Gruttadauria** (Palermo)
- P79 Dysregulated cytokine profiles associated with interleukin-17A suppression in B-cell acute lymphoblastic leukemia
Zekhethelo Mkhwanazi (University of KwaZulu-Natal, Durban - ZA), **Tawanda Nyambuya²**, **Bongani B. Nkambule¹** (¹Durban - ZA, ²Johannesburg - ZA)

DENDRITIC CELLS

- P80 Multimodal analysis of tissue-resident dendritic cells reveals the immunosuppressive role of DCs type 3 in human NSCLC and a mouse lung tumor model
Giuseppe Rocca (University of Milano-Bicocca, Milan), **Anna Celant¹**, **Maria Sonechkina¹**, **Giulia Protti¹**, **Alessia Donato¹**, **Marco Galli¹**, **Giulia Stucchi¹**, **Stefano Cozzi¹**, **Francesco Lapi¹**, **Carla Scalia²**, **Francesca Bono²**, **Chiara Damiani¹**, **Roberto Spreafico³**, **Laura Marongiu¹**, **Metello Enzo Innocenti¹**, **Francesca Granucci¹** (¹Milan, ²Monza, ³Los Angeles - USA)
- P81 Tissue-specific imprinting shapes conventional dendritic cell functionality in tumors and non-malignant tissues
Anna Celant (University of Milano-Bicocca, Milan), **Giuseppe Rocca**, **Giulia Protti**, **Marco Galli**, **Giulia Stucchi**, **Stefano Cozzi**, **Laura Marongiu**, **Francesco Andreata**, **Metello Enzo Innocenti**, **Francesca Granucci** (Milan)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P82 Unraveling the role of Factor VIII in regulating inflammatory responses in dendritic cell subsets
Francesco Sarnari (*University of Perugia, Perugia*), **Marco Gargaro**¹, **Francesca Fallarino**¹, **Estevao Carlos Silva Barcelos**¹, **Alessandro Pinzi**¹, **Giulia Mencarelli**¹, **Giorgia Manni**¹, **Benedetta Pieroni**¹, **Doriana Ricciuti**¹, **Antonia Follenzi**² (¹Perugia, ²Novara)
- P83 Unveiling the role of migratory dendritic cells in liver cancer
Christian Simini (*IRCCS Humanitas Research Hospital, Rozzano*), **Camilla Volponi**^{1,2}, **Aurora Gazzillo**^{1,2}, **Adriana Romanzi**¹, **Eduardo Bonavita**^{1,2} (¹Rozzano, ²Pieve Emanuele)
- P84 Natriuretic peptides as novel regulators of dendritic cell-mediated inflammation
Doriana Ricciuti (*University of Perugia, Perugia*), **Giorgia Manni**¹, **Estevao Carlos Silva Barcelos**¹, **Benedetta Pieroni**¹, **Marco Gargaro**¹, **Giulia Mencarelli**¹, **Hans Acha-Orbea**², **Anna La Rosa**¹, **Vincenzo Nicola Talesa**¹, **Letizia Mezzasoma**¹, **Francesca Fallarino**¹ (¹Perugia, ²Lausanne - CH)
- P85 Exploring reprogramming of type 1 dendritic cells in response to diverse forms of cell death in the tumor microenvironment
Aprajita Sinha (*University of Trieste, Trieste*), **Lucia Lopez**, **Giulia Maria Piperno**, **Gabriele De Losa**, **Emma Dalla Mora**, **Federica Benvenuti** (*Trieste*)
- P86 How lung cancer progression impacts the lineage commitment of type 1 conventional dendritic cells in the bone marrow
Gabriele De Losa (*International Centre for Genetic Engineering and Biotechnology, Trieste*), **Giulia Maria Piperno**, **Lucia Lopez**, **Federica Benvenuti** (*Trieste*)

IMMUNE RESPONSE TO PATHOGENS

- P88 Salivary immune markers to improve diagnosis and prevention of periodontitis
Giulia Micheloni (*University of Modena and Reggio Emilia, Modena*), **Valentina Selleri**^{1,2}, **Stefania Bergamini**¹, **Elisa Bellei**¹, **Giorgia Sinigaglia**¹, **Giada Zanini**¹, **Anna Vittoria Mattioli**², **Roberta Salvatori**¹, **Milena Nasi**³, **Carlo Bertoldi**¹, **Marcello Pinti**^{1,2} (¹Modena, ²Bologna)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P89 Dynamic immunological responses in SARS-CoV-2 infection: cytokines, autoantibodies, and lymphocyte subsets
Martina Bozhkova (*Medical University Plovdiv, Plovdiv - BG*), **Steliyan Petrov, Teodora Kalfova, Katya Vaseva, Dobrina Dudova, Michael Petrov** (*Plovdiv - BG*)
- P90 SARS-CoV-2 positive asymptomatic subjects present a regulatory immuno-profile in single cell gene expression comparison with symptomatic patients
Giulia Lamacchia (*University of Florence, Florence*), **Anna Vanni, Laura Maggi, Alessio Mazzoni, Francesco Annunziato, Francesco Liotta, Lorenzo Cosmi, Lorenzo Salvati, Francesca Matani, Lucia Bartoli, Valentina Cosi Becchi, Stefania Francalanci, Samuele Suraci, Roberto Semeraro, Manuela Capone, Alberto Magi, Alessandro Bartoloni, Michele Spinicci, Filippo Lagi** (*Florence*)
- P93 Evaluation of the cross-reactivity of circulating CD4⁺ T lymphocytes in SARS-CoV-2-positive individuals to different viral variants
Valentina Cosi Becchi (*University of Florence, Florence*), **Anna Vanni¹, Giulia Lamacchia¹, Francesca Matani¹, Lucia Bartoli², Stefania Francalanci¹, Lorenzo Salvati¹, Alessio Mazzoni¹, Manuela Capone¹, Michele Spinicci¹, Alessandro Bartoloni¹, Laura Maggi¹, Lorenzo Cosmi¹, Francesco Liotta¹, Francesco Annunziato¹** (*¹Florence, ²Palermo*)
- P94 Host immunity in schistosomiasis: functional profiling of IL-22⁺ T cell clones reveals a regulatory axis in macrophage polarization and fibrogenesis
Fernanda Scopelliti (*National Institute for Health, Migration and Poverty - INMP, Rome*), **Caterina Cattani¹, Valentina Dimartino¹, Roberto Gimmelli², Cristiana Lalli², Giuliana Papof², Christian Napoli¹, Andrea Cavanì¹** (*¹Rome, ²Monterotondo*)
- P95 Functional epigenetic remodeling of dysfunctional CD8⁺ T cells during chronic HBV infection
Francesco Iannucci (*Università Vita-Salute San Raffaele, Milan*), **Valeria Ranzani, Giacomo Grillo, Federica Marasca, Beatrice Bodega, Francesco Andreata, Matteo Iannacone** (*Milan*)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

MAST CELLS AND GRANULOCYTES

- P96 Single-cell transcriptomic profiling of mast cells in a mouse model of colorectal cancer
Erisa Putro (*Sapienza University of Rome, Rome*), **Alessia Carnevale**, **Caterina Marangio**, **Valerio Fulci**, **Giovanna Peruzzi**, **Cinzia Fionda**, **Helena Stabile**, **Giuseppe Pietropaolo**, **Giuseppe Sciumè**, **Angela Gismondi**, **Rosa Molfetta**, **Rossella Paolini** (*Rome*)
- P97 Dissecting the role of mast cells in colorectal cancer progression
Alessia Carnevale (*Sapienza University of Rome, Rome*), **Caterina Marangio**, **Erisa Putro**, **Giuseppe Pietropaolo**, **Francesca Sozio**, **Giuseppe Sciumè**, **Silvano Sozzani**, **Rosa Molfetta**, **Rossella Paolini** (*Rome*)
- P98 Characterization of interferon dependent lncRNAs in blood neutrophils from chronic obstructive pulmonary disease patients
Chiara Bracaglia (*University of Verona, Verona*), **Barbara Mariotti**, **Sara Gasperini**, **Giulia Sartori**, **Ernesto Crisafulli**, **Flavia Bazzoni** (*Verona*)
- P99 Investigating mast cells in high-grade serous ovarian cancer from tissue organization to functional behavior
Eleonora Capezzali (*University of Udine, Udine*), **Martina Arcieri**, **Stefano Restaino**, **Alessandro Mangogna**, **Silvia Tonon**, **Viviana Valeri**, **Eleonora Martinis**, **Carolina Ricci**, **Matteo Pivetta**, **Giuseppe Vizzielli**, **Carlo Pucillo**, **Barbara Frossi** (*Udine*)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

METABOLISM

- P100 Circulating immune and metabolomic landscape of multiple sclerosis patients treated with different immunomodulatory therapy
Alin Liviu Ciobanu (*University of Modena and Reggio Emilia, Modena*), **Sara De Biasi**¹, **Domenico Lo Tartaro**¹, **Nikolaos Paschalidis**², **Elena Santacroce**¹, **Gianluca Degliesposti**¹, **Miriam D'Angerio**¹, **Maristella Leccese**¹, **Lara Gibellini**¹, **Martina Cardì**¹, **Diana Ferraro**¹, **Andrea Cossarizza**¹ (¹Modena, ²Athens - GR)
- P101 Growth differentiation factor 15 levels in eating disorders patients
Maria Rachele Ceccarini (*University of Perugia, Perugia*), **Laura Dalla Ragione**², **Michela Codini**¹ (¹Perugia, ²Rome)
- P102 Aging-related lipid dysregulation impairs T lymphocyte function and immune response
Enrico Tassani (*University of Ferrara, Ferrara*), **Martina De Laurentis**¹, **Davide Proietto**¹, **Beatrice Dallan**¹, **Mara Martino**¹, **David A. Price**², **Victor Appay**³, **Stefano Volpato**¹, **Benedetta Govoni**¹, **Edoardo Locatelli**¹, **Amedeo Zurlo**¹, **Antonella Caputo**¹, **Riccardo Gavioli**¹, **Elena Torreggiani**¹, **Francesco Nicoli**¹ (¹Ferrara, ²Cardiff - UK, ³Bordeaux - F)
- P103 Age-related metabolic shifts in T cells impact vaccine response: insights into immunosenescence
Davide Proietto (*University of Ferrara, Ferrara*), **Elena Torreggiani**¹, **Beatrice Dallan**¹, **Martina De Laurentis**¹, **Eleonora Gallerani**¹, **Mara Martino**¹, **Victor Appay**², **Antonella Caputo**¹, **Josine van Beek**³, **Riccardo Gavioli**¹, **Debbie Van Baarle**³, **Francesco Nicoli**¹ (¹Ferrara, ²Bordeaux - F, ³Groningen - NL)
- P104 Immunometabolic role of Kupffer cell-derived apolipoprotein E
Laura Gullà (*University of Milan, Milan*), **Annalisa Moregola**, **Francesca Fantini**, **Maria Deneuve San Pedro**, **Arianna Moretti**, **Lucia Belotti**, **Alice Ossoli**, **Laura Calabresi**, **Danilo Norata**, **Fabrizia Bonacina** (*Milan*)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

T AND B LYMPHOCYTES

- P105 The sterol element binding protein 1C (SREBP1c) preserves immunosuppressive function of regulatory T cells by controlling phospholipid metabolism
Fabrizia Bonacina (*University of Milan, Milan*), **Claudio Procaccini**², **Monika Svecia**¹, **Silvia Pedretti**¹, **Jeroen Bogie**³, **Arianna moretti**¹, **Giovanni Battista Vingiani**¹, **Annalisa Moregola**¹, **Giulia Biagioli**⁴, **Claudia Russo**², **Giusy De Rosa**², **Claudia La Rocca**², **Nico Mitro**¹, **Giuseppe Matarese**², **Danilo Norata**¹ (¹Milan, ²Naples, ³Diepenbeek - B, ⁴Perugia)
- P106 Polo-like kinase 1 orchestrates cytoskeletal remodeling to promote cytotoxic T lymphocyte migration
Leandro Marzuoli (*University of Siena, Siena*), **Fabrizia Zevolini**, **Anna Onnis**, **Francesca Finetti**, **Cosima Baldari** (*Siena*)
- P107 High-grade serous ovarian cancer: characterizing B cells in tumor microenvironment and peripheral blood for personalized medicine
Eleonora Capezzali (*University of Udine, Udine*), **Martina Arcieri**, **Stefano Restaino**, **Silvia Tonon**, **Carolina Ricci**, **Viviana Valeri**, **Eleonora Martinis**, **Matteo Pivetta**, **Maria Orsaria**, **Laura Mariuzzi**, **Carlo Pucillo**, **Giuseppe Vizzielli**, **Barbara Frossi** (*Udine*)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P108 Immunophenotypic imbalance and metabolic dysfunction of tumor-infiltrating B cells in colorectal cancer
Eleonora Martinis (University of Udine, Udine), **Silvia Tonon**, **Viviana Valeri**, **Carolina Ricci**, **Caterina Trevisan**, **Eleonora Capezzali**, **Matteo Pivetta**, **Barbara Frossi**, **Carlo Pucillo** (Udine)
- P109 T cell-derived IFN- γ suppresses T follicular helper cell differentiation and antibody responses
Maria Nelli (Vita-Salute San Raffaele University, Milan), **Eleonora Sala**¹, **Chiara Laura**¹, **Pietro Di Lucia**¹, **Cristian Beccaria**¹, **Elisa Bono**¹, **Marta Mangione**¹, **Davide Marotta**¹, **Valentina Sperto**¹, **Marta Grillo**¹, **Leonardo Giustini**¹, **Fabio Tosi**¹, **Jia Nie**², **Daehong Kim**³, **Giuliana Furiato**¹, **Chiara Malpighi**¹, **Burkhard Becher**³, **David Eyal**⁴, **Cohen Merav**⁵, **Giladi Amir**⁴, **Amit Ido**⁴, **Remy Bosselut**², **Luca G Guidotti**¹, **Matteo Iannacone**¹, **Mirela Kuka**¹ (¹Milan, ²Bethesda - USA, ³Zurich - CH, ⁴Rehovot - IL, ⁵Tel Aviv - IL)
- P110 Supramolecular attack particles (SMAPs): a new weapon against virus-infected cells
Maria Carmela Cavallo (University of Siena, Siena), **Chiara Cassioli**¹, **Annachiara Miccoli**¹, **Michael L. Dustin**², **Nagaja Capitani**¹, **Cosima Baldari**¹ (¹Siena, ²Oxford - UK)

MONOCYTES AND MACROPHAGES

- P111 RIGENERA® biomaterial functionalized by ZnAl-hydroxycalcite and gallic acid prevents osteoclast formation in vitro as potential tool for periodontitis treatment
Chiara Suvieri (University of Perugia, Perugia), **Valeria Ambroggi**¹, **Maria Bastianini**², **Michele Sisani**², **Stefano Pagano**¹, **Lorella Marinucci**¹, **Maria Teresa Pallotta**¹, **Luca Canton**³, **Maria Laura Belladonna**¹ (¹Perugia, ²Ponte Felcino, ³Povolara di Dueville)
- P112 Monocyte response to mitochondrial damage-associated molecular pattern in elderly subjects: correlation with chronic inflammation and atherosclerosis
Giorgia Sinigaglia (University of Modena and Reggio Emilia, Modena), **Valentina Selleri**^{1,2}, **Giada Zanini**¹, **Giulia Micheloni**¹, **Isabella Martusciello**¹, **Silvia Alboni**¹, **Milena Nasi**², **Marcello Pinti**¹ (¹Modena, ²Bologna)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P113 WASp and nuclear stability: insights into macrophage inflammation and mechanosensitivity
Giulia Bracchetti (*ICGEB, Trieste*), **Federica Benvenuti**¹,
Roberto Amadio^{1,2} (¹*Trieste*, ²*Verona*)

MUCOSAL IMMUNOLOGY

- P114 Quercetin enriched diet improves tissue regeneration in a model of short bowel syndrome
Marcello Chieppa (*University of Salento, Lecce*), **Marianna Kashyrina**¹,
Alessandro Miraglia¹, **Diana Vardanyan**¹, **Alfredo Papa**² (¹*Lecce*, ²*Rome*)
- P115 Regulation of intestinal epithelial barrier by the atypical receptor CCRL2
Lorenzo Evangelista (*Sapienza University of Rome, Rome*),
Francesca Sozio¹, **Tiziana Schioppa**^{2,3}, **Mattia Laffranchi**¹, **Cinzia Fionda**¹,
Annalisa Del Prete^{2,3}, **Silvano Sozzani**¹ (¹*Rome*, ¹*Brescia*, ³*Rozzano*)

OTHER TOPICS

- P116 Targeting the innate immune system with postbiotics: a strategy for controlling intestinal inflammation
Piera Molisso (*Humanitas University, Pieve Emanuele*), **Silvia Carnevale**²,
Silvia Giugliano¹, **Giuseppe Penna**², **Anna Rigatelli**²,
Anna Pia Lasaracina², **Giovanna Grieco**^{1,2}, **Irene Di Ceglie**²,
Alessandro Bernardinello^{1,2}, **Giovanni Pezone**², **Maria Rescigno**^{1,2},
Sebastien Jaillon^{1,2} (¹*Pieve Emanuele*, ²*Milan*)
- P117 Development of a score derived from full blood count parameters to differentiate individuals with active tuberculosis from latent infected
Marco Pio La Manna (*University of Palermo, Palermo*), **Giusto Davide Badami**,
Miriana Fallo, **Francesco Dieli**, **Nadia Caccamo** (*Palermo*)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

SPATIAL AND SINGLE CELL OMICS

- P118 Single-cell RNA profiling of mature PMN-MDSCs from cancer patients and G-CSF-treated donors
Chiara Lattanzi (*University of Verona, Verona*), **Nicola Tamassia**, **Francisco Miguel Angel Bianchetto Aguilera**, **Francesca Pettinella**, **Marta Donini**, **Barbara Mariotti**, **Monica Castellucci**, **Elena Caveggon**, **Flavia Bazzoni**, **Maurizio Cantini**, **Sara Pilotto**, **Michele Milella**, **Marco Cassatella**, **Patrizia Scapini** (*Verona*)
- P120 *Roseomonas mucosa* as a potential driver of intestinal fibrosis in Crohn's disease: a multi-omic approach
Sabrina Nicolò (*Università Vita-Salute San Raffaele, Milan*), **Luca Massimino**, **Tommaso Lorenzo Parigi**, **Carmela Errico**, **Valentina Bozzetti**, **Stefania Cagliani**, **Salvatore Spanò**, **Federica Ungaro**, **Silvio Danese** (*Milan*)
- P121 Single-cell RNA-sequencing analysis to identify immune evasion in different histotypes of ovarian cancer
Annalisa Imperiali (*University of Milan, Milan*), **Joanna Mikulak**, **Paolo Marzano**, **Valentina Cazzetta**, **Domenico Vitobello**, **Barbara Fiamengo**, **Maurizio D'Incalci**, **Sergio Marchini**, **Domenico Mavilio** (*Milan*)

TRANSLATIONAL IMMUNOLOGY

- P122 Germline BRCA1 mutations carriers have enhanced type-2 immunity at baseline and stronger response to flu vaccine
Giorgia Sartori (*Sapienza University of Rome, Rome*), **Ilenia Cammarata**, **Marzia Facchini**, **Simona Puzelli**, **Concetta Fabiani**, **Eliana Coccia**, **Martina Severa**, **Maurizio Sorice**, **Laura De Marchis**, **Silvia Piconese** (*Rome*)
- P123 Systemic accumulation of highly differentiated T cell effectors and their functional link to vascular inflammation in a mouse model of recurrent psoriasis
Chiara Terranova¹, **Fabio Casciano**¹, **Laura Marongiu**², **Alex Spitilli**¹, **Anna Caproni**¹, **Peggy Marconi**¹, **Francesca Granucci**², **Paola Secchiero**¹ (*¹Ferrara, ²Milan*), **Eva Reali** (*University of Ferrara, Ferrara*)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P124 Analysis of the transcriptional profile of circulating neutrophils from chronic obstructive pulmonary disease patients
Carlo Frigenti (*University of Verona, Verona*), **Barbara Mariotti, Flavia Bazzoni** (*Verona*)
- P125 Differential in vitro effects of serum mediators from systemic sclerosis and VEDOSS patients on endothelial cells
Annagioia Ventrici (*University of Naples Federico II, Naples*), **Luca Modestino, Leonardo Cristinziano, Manuela Tumminelli, Francesca Wanda Rossi, Gilda Varricchi, Amato de Paulis, Maria Rosaria Galdiero** (*Naples*)
- P126 Bacterial stimuli trigger orofacial granulomatosis pathomechanism through activating monocytes and neutrophils
Luca Modestino (*University Hospital of Naples Federico II, Naples*), **Francesco Palestra, Annagioia Ventrici, Gina Memoli, Anne Lise Ferrara, Leonardo Cristinziano, Gilda Varricchi, Stefania Loffredo, Maria Rosaria Galdiero** (*Naples*)
- P127 Human virtual memory CD8⁺ T cells: the role of cytokines on cell development and functionality
María Estefanía Viano (*University of Milan, Milan*), **Simone Balin¹, Paolo Marzano^{1,2}, Silvia Della Bella^{1,2}, Domenico Mavilio^{1,2}** (*¹Milan, ²Rozzano*)
- P128 Engineered human CD34⁺ hematopoietic stem cells as an innovative approach to modulate the immunoinflammatory response during atherosclerosis
Arianna Moretti (*University of Milan, Milan*), **Sara Greco, Annalisa Moregola, Giovanni Battista Vingiani, Laura Gullà, Marta Iaia, Danilo Norata, Fabrizia Bonacina** (*Milan*)
- P129 Characterization of drug-specific CD4⁺ T cells in patients with chronic inflammatory diseases
Amos Weichberger (*Institute of Immunology and IKMB, Kiel - D*), **Gabriela Rios-Martini¹, Hanna Marutz¹, Diana Milagros Namuch Castro¹, Sarah Müller¹, Nick Funcke¹, Philipp Hofmann¹, Stefanie Howaldt², Stefan Schreiber¹, Petra Bacher¹** (*¹Kiel - D, ²Hamburg - D*)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P130 Modulation of mitochondrial dynamics as a novel strategy to overcome T cell exhaustion in the tumor microenvironment
Martina Attanasio¹, Manuela Giansanti¹, Carolin Franko², Markus Machwirth², Ted Shpati², Mac Dang², Ignazio Caruana², Francesca Nazio¹, Elisabetta Vulpis (*University of Rome Tor Vergata, Rome*),
Silvia Campello¹ (¹Rome, ²Würzburg - D)

TUMOR IMMUNOLOGY

- P131 Distinctive features of tumor-infiltrating $\gamma\delta$ T lymphocytes in human glioblastoma multiforme
Costanza Dieli (*University of Palermo, Palermo*), **Rosario Maugeri, Claudia Avellone, Marta Di Simone, Gerardo Iacopino, Francesco Dieli, Lara Brunasso, Anna Maria Corsale, Silvana Tumbiolo, Serena Meraviglia** (*Palermo*)
- P132 Immunotherapeutic efficacy of discoidin domain receptor 2/type 1 collagen inhibition in high-grade serous carcinoma
Martina Kunkl (*Sapienza University of Rome, Rome*), **Ilenia Masi, Flavia Ottavi, Silvia Malatesta, Virginia Vigiano Benedetti, Manolo Sambucci, Luca Battistini, Francesco Spallotta, Emanuele Mauri, Laura Rosanò, Loretta Tuosto** (*Rome*)
- P133 The potential of a combination therapy comprising chemotherapy, eganelisib and DNA vaccination to impede the progression of pancreatic cancer
Martina Perin (*University of Turin, Turin*), **Simona Intonti¹, Silvia Brugiapaglia¹, Demis Grosso¹, Alessandro Scagliotti¹, Ferdinando Spagnolo², Claudia Curcio¹** (¹Turin, ²Rome)
- P134 $\gamma\delta$ T cells and immune checkpoints in colorectal cancer: a new avenue for immunotherapy
Salvatore Marchiafava (*University of Palermo, Palermo*), **Marta Di Simone, Anna Maria Corsale, Claudia Avellone, Costanza Dieli, Marta Biondo, Cirino Botta, Francesco Dieli, Serena Meraviglia** (*Palermo*)

POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P135 Shared and distinct alterations in mucosal innate lymphoid cells in patients with inflammatory bowel disease
Claudia Avellone (*University of Palermo, Palermo*), **Mahsa Rafieiyan**, **Costanza Dieli**, **Filippo Mocciaro**, **Robert o Di Mitri**, **Andrea De Gaetano**, **Marta Di Simone**, **Anna Maria Corsale**, **Francesco Dieli**, **Serena Meraviglia**, **Elena Lo Presti** (*Palermo*)
- P136 Human lung macrophages and circulating monocytes might contribute to bacterial infection susceptibility and prognosis of lung cancer patients
Francesco Palestra (*University of Naples Federico II, Naples*), **Gina Memoli**, **Noemi Maria Giorgiano**, **Leonardo Cristinziano**, **Remo Poto**, **Anne Lise Ferrara**, **Gilda Varricchi**, **Gianni Marone**, **Alforonso Fiorelli**, **Stefania Loffredo** (*Naples*)
- P137 Peripheral blood neutrophils and monocytes differentially predict response to anti-PD-1 and BRAF/MEK inhibitors therapy in stage III melanoma patients
Luca Modestino (*University Hospital of Naples Federico II, Naples*), **Leonardo Cristinziano**, **Annagioia Ventrici**, **Carlo Gabriele Tocchetti**, **Teresa Troiani**, **Gilda Varricchi**, **Maria Rosaria Galdiero** (*Naples*)
- P138 Multiomics profiling reveals a subset of NKG2A+ Vδ2+ T cells associated to response to PD-1 blockade in non-small cell lung cancer
Giusto Davide Badami (*University of Palermo, Palermo*), **Mojtaba Shekarkar Azgomi**², **Valerio Gristina**¹, **Marco Pio La Manna**¹, **Nadia Caccamo**¹, **Francesco Dieli**¹ (*¹Palermo, ²Lille - France*)
- P139 Peripheral blood neutrophils in advanced melanoma patients undergoing immunotherapy with anti-PD1 immuno-checkpoint inhibitors (ICI)
Annagioia Ventrici (*University of Naples Federico II, Naples*), **Luca Modestino**, **Leonardo Cristinziano**, **Marilena Capone**, **Gabriele Madonna**, **Gilda Varricchi**, **Paolo Antonio**, **Maria Rosaria Galdiero** (*Naples*)



POSTER SESSION 2 - JUNE 19, 2025 - 13:30-14:30

- P140 Single cells flow cytometry and transcriptomic analysis of different layers of human glioblastoma revealed an impairment of tumor infiltrating lymphocytes function

Anna Vanni (*University of Florence, Florence*), **Laura Maggi, Francesca Matani, Camilla Bonaudo, Alessio Mazzoni, Manuela Capone, Giulia Lamacchia, Roberto Semeraro, Marialea De Gregorio, Lorenzo Salvati, Lucia Bartoli, Stefania Francalanci, Valentina Cosi Becchi, Mirko Petti, Filippo Nozzoli, Alberto Magi, Lorenzo Cosmi, Francesco Liotta, Alessandro Della Puppa, Francesco Annunziato** (*Florence*)

- P141 Uncovering new targets and pathways to improve the efficacy of combination immunotherapy for lung cancer

Adriana Romanzi (*IRCCS Humanitas Research Hospital, Rozzano*), **Silvia Carnevale¹, Camilla Volponi^{1 2}, Aurora Gazzillo^{1 2}, Christian Simini¹, Enrico Lugli¹, Sebastien Jaillon^{1 2}, Eduardo Bonavita^{1 2}** (*¹Rozzano, ²Pieve Emanuele*)

- P142 VS-15 inhibits both the enzymatic and non-enzymatic functions of indoleamine 2,3-dioxygenase 1

Eleonora Panfili (*University of Perugia, Perugia*), **Sarah Jane Rezzi², Annalisa Adamo³, Stefano Ugel³, Tracey Pirali², Maria Teresa Pallotta¹** (*¹Perugia, ²Novara, ³Verona*)

- P143 Turning 'cold' tumors 'hot': ERAP1 inhibition remodels the tumor microenvironment of melanoma

Paula Gragera (*Ospedale Pediatrico Bambino Gesù, Rome*), **Valentina Scaldaferri¹, Verena Damiani¹, Martha Nikopaschou², Susanna Dolci¹, Martina Samiotaki³, Yaroslav Kaminskiy⁴, Rui Branca⁴, Efstratios Stratikos², Doriana Fruci¹** (*¹Roma, ²Athens - GR, ³Vari - GR, ⁴Solna - S*)

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