



HIGHLIGHTS IN IMMUNOLOGY

ACCADEMIA NAZIONALE DEI LINCEI
ROME / MARCH 15th-16th, 2022

FREE ONLINE EVENT
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PRESIDENTS:

Lorenzo Moretta (chair), Guido Forni, Enrico Maggi, Alberto Mantovani

PROGRAMME MARCH 15th

13.15 Registration

13.45 Welcome

14.00 Opening Lecture

Jules Hoffmann
Innate Immunity: an evolutionary perspective
chair: Lorenzo Moretta

14.30 Lecture

Anthony Fauci (recorded)
chair: Giuseppe Pantaleo

15.00 Lecture

Franco Locatelli
chair: Lorenzo Moretta

15.20 FOCUS ON COVID-19: immunological, pathogenetic aspects and vaccines
chairs: Antonio Lanzavecchia, Giuseppe Pantaleo

15.20 Giuseppe Pantaleo
Humoral response against variants of concern (VOCs) in natural infection and following vaccination

15.40 Antonio Lanzavecchia
Broadly neutralizing antibodies

16.00 Carlo Federico Perno
Evolution of coronaviruses and its consequences in term of replication, pathogenesis and drug escape

16.20 Andrea De Maria
NK cell trafficking and lymphocyte turnover in the pathogenesis of SARS-CoV-2

16.40 Francesco Annunziato
Duration of cellular and humoral immunity to SARS-CoV-2 following natural infection or vaccination: the variable of virus variants

17.00 Coffee Break

17.20 Cristoph Huber
mRNA vaccines for prevention or treatment of serious disease

17.40 Fabrizio Chiodo
Design and development of different RBD-based vaccines for adults and for the pediatric population

18.00 Panel Discussion

18.30 Lecture

Alberto Mantovani
Innate immunity and inflammation from cancer to COVID-19
chair: Enrico Maggi

19.00 Adjourn

PROGRAMME MARCH 16th

09.00 Lecture

Federica Sallusto
One for all: cross-reactive T cells and antibodies to coronaviruses
chair: Maria Cristina Mingari

09.30 Lecture

Andreas Radbruch
SARS-CoV-2 induced TGF- β in immune evasion and severe disease
chair: Federico Caligaris Cappio

10.00 FOCUS ON Immune checkpoint inhibitors

chairs: Ignacio Melero and Michele Maio

10.00 Emanuela Marcenaro
PD-1 expression in human NK cells: from healthy to pathological conditions

10.15 Francesca Romana Mariotti
Role of PD-1 soluble form in modulating NK cells function

10.30 Linda Quatrini
Inhibitory checkpoint up-regulation is a new immune suppressive mechanism for glucocorticoids

10.45 Enrico Munari
Present and future of PD-L1 expression evaluation: the pathologist's perspective

11.00 Coffee Break

11.30 Michele Maio
Epigenetic modeling and remodeling in cancer immunotherapy

11.50 Ignacio Melero
4-1BB(CD137)-based immunotherapies back to the future

12.10 Discussion

12.40 Maria Rescigno

The microbiota-immune interaction
chair: Genny Del Zotto

13.10 Wolf H. Fridman

Tumor microenvironment organisation in cancer immunity and immunotherapy
chair: Alberto Mantovani

13.40 Lunch

14.30 FOCUS ON Tumor microenvironment

chairs: Catherine Fridman and Silvano Sozzani

14.30 Catherine Fridman
Tertiary lymphoid structures diversity in cancer immunity

14.50 Silvano Sozzani
Specialized lung capillary endothelial cells regulate leukocyte tumor infiltration

15.10 Massimo Vitale
Cytokine-induced memory-like NK cells and tumor spheroids

15.25 Nicola Tumino
Cellular components in TME: MDSC inhibit NK cells in lung tumors

15.40 Coffee Break

16.00 Bruno Azzarone
Identification of neuroblastoma primary subsets displaying mesenchymal phenotypes and strong suppressive activity on natural killer cells

16.15 Paola Vacca
New cell-based immunotherapeutic approaches to overcome TME-mediated immunosuppression

16.30 Claudia Cantoni
NK cells and tumor microenvironment in Wilms tumor

16.45 Discussion

17.15 Candlelight Lecture

Giorgio Parisi
chair: Guido Forni

17.45 Conclusions

Guido Forni, Enrico Maggi, Alberto Mantovani and Lorenzo Moretta

INVITED SPEAKERS/CHAIRPERSONS

Annunziato Francesco - Firenze
Azzarone Bruno Giuseppe - Roma
Caligaris Cappio Federico - Milano
Cantoni Claudia - Genova
Chiodo Fabrizio - Napoli
De Maria Andrea - Genova
Del Zotto Genny - Genova
Forni Guido - Torino
Fridman Catherine - Paris
Fridman Wolf - Paris
Hoffmann Jules - Strasbourg
Huber Cristoph - Berlin
Lanzavecchia Antonio - Milano
Locatelli Franco - Roma
Maggi Enrico - Roma
Maio Michele - Siena
Mantovani Alberto - Milano

Marcenaro Emanuela - Genova
Mariotti Francesca Romana - Roma
Melero Ignacio - Pamplona
Mingari Maria Cristina - Genova
Moretta Lorenzo - Roma
Munari Enrico - Brescia
Pantaleo Giuseppe - Lausanne
Parisi Giorgio - Roma
Perno Carlo Federico - Roma
Quatrini Linda - Roma
Radbruch Andreas - Berlin
Rescigno Maria - Milano
Sallusto Federica - Zurich, Bellinzona
Sozzani Silvano - Roma
Tumino Nicola - Roma
Vacca Paola - Roma
Vitale Massimo - Genova

ORGANIZING SECRETARIAT

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Dedicated to **Alessandro Moretta** and **Giorgio Parmiani**.
Their groundbreaking researches inspired several topics
in this meeting and left very big footprints in Immunology

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to an unrestricted grant by

