



ACCADEMIA MEDICA DI ROMA

Giovedì 10 novembre 2022, ore 16.00
Auditorium Prima Clinica Medica
Policlinico Umberto I, viale del Policlinico 155, Roma

La conferenza potrà essere seguita in presenza presso la sede sopra descritta oppure in streaming sulla piattaforma Zoom utilizzando il seguente link

<https://us02web.zoom.us/j/9059862965?pwd=bXBSMFpaYU5mWkFudXV6NzdVdGRuQT09>

o inserendo i seguenti **Meeting ID: 905 986 2965** e **Passcode: accademia**

Giornata Inaugurale Anno Accademico 2022/2023

- 16.00 Saluti del Presidente dell'Accademia Medica di Roma e
presentazione Calendario Conferenze Anno Accademico 2022/2023
- 16.15 Saluti della Prof.ssa Antonella Polimeni, Magnifica Retttrice della Sapienza Università di Roma
- 16.30 **Federica Sallusto**, Professor USI and ETH Zurich (CH)

Parlerà sul tema:

T LYMPHOCYTES IN HEALTH AND DISEASE

La S.V. è invitata ad intervenire.

L'ACCADEMICO SEGRETARIO

ANTONIO MUSARO'

IL PRESIDENTE

VINCENZO BARNABA

Il certificato di partecipazione verrà rilasciato solo in presenza

Federica Sallusto

Professor of Medical Immunology at the ETH Zurich and USI;
Group leader of the Cellular Immunology Laboratory at the IRB



Federica Sallusto is an expert in the field of human cellular immunology. Her research has focused on dendritic cell and T cell traffic, mechanisms of T cell differentiation and immunological memory. Among her contributions are the definition of “central memory” and “effector memory” T cells as memory subsets with distinct migratory capacity and effector function, the discovery of Th22 cells as a distinct subset of skin-homing T cells, the characterization of non-classic Th1 cells induced by bacteria and of two distinct types of Th17 cells with pro-inflammatory and regulatory properties. She also developed methods for the analysis of human naïve and memory T cell repertoires based on high throughput cellular screenings of expanded T cell libraries that has been instrumental to identify autoreactive T cells in patients with narcolepsy.

Federica Sallusto is currently Professor of Medical Immunology at the ETH Zurich and USI Lugano (joint professorship) and group leader of the Cellular Immunology Laboratory and Director of the Center of Medical Immunology at the Institute for Research in Biomedicine in Bellinzona. She is member of the German National Academy of Science Leopoldina, of EMBO and of the Henry Kunkel Society, international member of the U.S. National Academy of Sciences and honorary member of the Swiss Society for Allergology and Immunology. In 2022 she was honored with the title of Doctor honoris causa of the Faculty of Science and Medicine of the University of Fribourg. She is currently president of EFIS (European Federation of Immunological Societies).

T Lymphocytes in health and disease

Federica Sallusto

Institute of Microbiology, ETH Zurich and Institute for Research in Biomedicine, Università della Svizzera italiana, Bellinzona, Switzerland

We study the human system to address fundamental questions in the context of the immune response to different classes of antigens, such as microbial pathogens, allergens or self-antigens, to gain insights into mechanisms that induce host protection or immune-mediated pathology. Our efforts towards human immunology have resulted in the development of high-throughput cell-based screening methods to analyze the human immune response and, in particular, the functional diversity and repertoire of effector and memory T cells in immunocompetent individuals and in immunodeficient patients. These methods, together with high throughput TCRVB sequencing, which can analyze millions of T cell clonotypes in blood or tissues, mass spectrometry, and single-cell gene expression analysis, are used to get insights as to the mechanisms of immune-mediated protection and pathology, to predict antigenicity, and identify T cell epitopes to guide design of T cell vaccines.