

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Transforming Vaccinology (L2)

March 15-19, 2020 • Firenze Fiera - Fortezza da Basso • Florence, Italy

Scientific Organizers: Rino Rappuoli, Lynda M. Stuart and Federica Sallusto

Part of the Keystone Symposia Global Health Series, supported by the Bill & Melinda Gates Foundation

Organized in collaboration with Menarini International Foundation

Sponsored by: Moderna

Global Health Travel Award Deadline: October 15, 2019 / Discounted Abstract & Scholarship Deadline: November 12, 2019 / Abstract Deadline: December 10, 2019 / Discounted Registration Deadline: January 14, 2020

SUNDAY, MARCH 15

Arrival and Registration

MONDAY, MARCH 16

Welcome and Keynote Address

Anthony S. Fauci, NIAID, National Institutes of Health, USA
Vaccines, Science and Society

Structure-Based Antigen Design

Neil P. King, University of Washington, USA
Structure-Based Design of Novel Nanoparticle Vaccine Platforms

Barney S. Graham, NIAID, National Institutes of Health, USA
Design of RSV and Universal Influenza Immunogens

William Schief, International AIDS Vaccine Initiative and The Scripps Research Institute, USA
Germline Immunization

Short Talks Chosen from Abstracts

Poster Session 1

Molecular Dynamics of Germinal Centers

Gabriel D. Victora, Rockefeller University, USA
How the Germinal Center Works

Speaker to be Announced

Shane Crotty, La Jolla Institute for Immunology, USA
Probing the Human Naive B Cell Repertoire, and Developing Immunization Strategies That Enhance Antibody and Germinal Center Responses via Modulation of Immunodominance

Short Talks Chosen from Abstracts

TUESDAY, MARCH 17

The Increasing Role of Delivery, Adjuvants, Genetics and Microbiome

Yasmine Belkaid, NIAID, National Institutes of Health, USA
Microbiome and Immunity

Steven Reed, Infectious Disease Research Institute, USA
Comparison of Adjuvants, TLR Agonists

Federica Sallusto, Università della Svizzera Italiana & ETH Zurich, Switzerland
Antigen Specific T Cell Diversity

Jean-Laurent Casanova, Rockefeller University, USA
Toward a Genetic Theory of Childhood Infectious Diseases

Short Talks Chosen from Abstracts

Panel 1: New Technologies and Impact on Vaccines

***Lynda M. Stuart**, Bill & Melinda Gates Foundation, USA

***Mariagrazia Pizza**, GSK Vaccines, Italy

Sergio Abrignani, Fondazione INGM - University of Milan, Italy
Precision Medicine Based on Tissutal Immunology

Sina Bartfeld, University of Würzburg, Germany
Organoids as Model of Infections (Gut Stem Cells Derived Organoids)

Claudia Sala, Toscana Life Sciences Foundation, Italy
New Imaging Technologies for New Assays (High Throughput, High Content Assays for Adhesion Invasion, Neutralization, Opsonization and Killing of Bacterial Pathogens)

Emanuele Andreano, Fondazione Toscana Life Sciences, Italy
New Imaging Technologies for New Assays (High Throughput, High Content Assays for Adhesion Invasion, Neutralization, Opsonization and Killing of Bacterial Pathogens)

Synthetic (Nucleic Acid) Vaccines

Christine Shaw, Moderna, USA
mRNA Vaccines against Viruses

Speaker to be Announced

Ugur Sahin, BioNTech AG, Germany
mRNA Vaccines against Tumors

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 18

Antibody Repertoire and Passive Immunization

Hedda Wardemann, German Cancer Research Center, Germany
Antibody Repertoire

Galit Alter, Ragon Institute of MGH, MIT, and Harvard, USA
System Serology

Antonio Lanzavecchia, Institute for Research in Biomedicine, Switzerland
Human Monoclonals for Passive Immunization and Antigen Discovery

James E. Crowe, Jr., Vanderbilt University Medical Center, USA
The Human Immunome

Short Talks Chosen from Abstracts

Poster Session 3

Vaccines for Chronic Infections and Cancer I

Ann M. Ginsberg, International AIDS Vaccine Initiative, USA
New Vaccines Against Tuberculosis

John T. Schiller, NCI, National Institutes of Health, USA
Progress on Preventative and Therapeutic HPV Vaccines

Catherine Ju-Ying Wu, Dana-Farber Cancer Institute, USA
Vaccines Against Tumor Neoantigens

Short Talks Chosen from Abstracts

THURSDAY, MARCH 19

Vaccines for Chronic Infections and Cancer II

Laurence Zitvogel, Institut Gustave Roussy, France
Cancer Immunity and Microbiota

Alfredo Nicosia, Nouscom, S.R.L., Italy
The Renaissance of Cancer Vaccines

Anne O'Garra, Francis Crick Institute, UK
Transcriptomics Reveal the Immune Response in Tuberculosis

Short Talks Chosen from Abstracts

Panel 2: Innovation and Sustainability for Emerging and Neglected Diseases

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***Rino Rappuoli**, GlaxoSmithKline Vaccines, Italy

***Lynda M. Stuart**, Bill & Melinda Gates Foundation, USA

Richard Hatchett, Coalition for Epidemic Preparedness Innovations, CEPI, UK

Charlie Weller, Wellcome Trust, UK

Rick Arthur Bright, Biomedical Advanced Research and Development Authority, USA

Jerome H. Kim, International Vaccine Institute, South Korea

Jaap Goudsmit, Human Vaccines Program / Harvard T.H. Chan School of Public Health, USA

Understanding the Molecular Mechanisms by Systems Biology

Bali Pulendran, Stanford University School of Medicine, USA

Emerging Mechanism of Vaccine Modulation Detected by Systems Biology

Stefan H. E. Kaufmann, Max Planck Institute for Infection Biology, Berlin, Germany

Signatures for Infection and Protection

Rino Rappuoli, GlaxoSmithKline Vaccines, Italy

Transforming Vaccinology

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

FRIDAY, MARCH 20

Departure