

Vaccinology: Horizons Across Disease, Demography and Technology

June 4-7, 2025

This meeting will be held jointly with the Gates Grand Challenges meeting to encourage interdisciplinary insights and collaborations between scientists, clinicians and policy makers towards societal impacts.



Marriott Marquis Washington, DC
Washington, DC, USA



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about this meeting.

Or visit,

<http://keysym.us/KSVaccines25>

Scientific Organizers:

Rino Rappuoli, PhD: Fondazione Biotechnopolo di Siena

Kanta Subbarao, MD, PhD: WHO Collaborating Centre for Reference and Research on Influenza

Laurence Zitvogel, PhD: Institut Gustave Roussy

Now that vaccinology has conquered the important childhood infections, the field aims to extend the benefits of vaccines more broadly across diseases and demographics. This meeting will cover new horizons in vaccine development and design to protect against more challenging infectious agents, as well as non-infectious diseases. Specifically, attendees will learn about the latest insights into vaccines against:

(1) Emerging infections, (2) antimicrobial resistant infections, (3) chronic infectious diseases, (4) diseases of poor countries, (5) infections in the elderly, (6) cancer, and (7) autoimmune and neurodegenerative disease.

This new vaccine ambition is supported by the incredible advances in science and technology that make it technically possible to develop vaccines against many new targets, and by innovative approaches to vaccine development for emerging infections and for diseases of poor countries. The program will cover a wide variety of these new technologies that are transforming vaccinology, such as reverse vaccinology, structure-based antigen design, adjuvants, nucleic acid vaccines (especially RNA), viral vectors, systems biology, and controlled human infections. They are supported by scientific advances in human immunology, genomics, synthetic biology, molecular structure of antigens and antigen-antibody complexes, germinal centers, and microbiome, all of which will be highlighted to inform vaccine design strategies.

This meeting will span technology and biology of vaccine design, to multidisciplinary global approaches to health equity in vaccine development, production, and distribution, including lessons learned from the COVID-19 pandemic. These include plans promoted by CEPI, NIH, Bill and Melinda Gates Foundation, and Wellcome Trust to change the way vaccines are developed to enhance global access in times of urgency, and otherwise.

Each session will be spearheaded by a keynote speaker who will frame the discussion, followed by field leaders and innovators providing emerging advances across academic, industry, government, and non-profit sectors. We will also feature rising stars and trainees in plenary and workshop sessions to encourage new voices and ideas to drive the field forward. The meeting will provide the unique opportunity to make cross-disciplinary and cross-sector connections and collaborations to catalyze translational advances and impacts.

Session Topics:

- Learning the Molecular Immunology of mRNA Vaccines
- Vaccines, Emerging Reality in Cancer Therapy
- Preparing for New Pandemics and Emerging Infections
- Panel Discussion: Pandemic and Antimicrobial Resistance Preparedness
- Understanding Mechanistic Immunology to Drive Vaccine Design
- Designing and Evaluating New Vaccines
- Exploiting Tissue Specific Protection to Prevention and Cure
- Workshops on Late-Breaking Research Selected From Abstract Submissions



KEYNOTE SPEAKER

Anthony Fauci
Georgetown University

CONFIRMED
SPEAKERS

Galit Alter
Emanuele Andreano
Rita Carsetti
Cristina Cassetti
Christopher Chiu
Ali H. Ellebedy
Wolfgang W. Leitner
Jason S. McLellan
Ira Mellman
Penny L. Moore
Michel C. Nussenzweig
Bali Pulendran
Rino Rappuoli
Federica Sallusto
Kanta Subbarao
Catherine J. Wu
Laurence Zitvogel

ABSTRACT /
SCHOLARSHIP
DEADLINE

March 5, 2025

EARLY
REGISTRATION
DEADLINE

April 16, 2025