

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Innovative Vaccine Approaches (Z5)

June 27-July 1, 2021 • Fairmont Hotel Vancouver • Vancouver, BC, Canada

Scientific Organizers: Mariagrazia Pizza, Galit Alter and Gordon Dougan

Supported by the Directors' Fund

Scholarship Deadline: March 4, 2021 / Abstract Deadline: March 25, 2021 / Discounted Registration Deadline: April 27, 2021

SUNDAY, JUNE 27

Arrival and Registration

MONDAY, JUNE 28

Welcome and Keynote Address

Rino Rappuoli, GlaxoSmithKline Vaccines, Italy
Vaccines 2030

Beyond Blocking Infection

Galit Alter, Ragon Institute of MGH, MIT, and Harvard, USA
Programming Fc Effector Functions via Vaccination/System Serology

Speaker to be Announced

Katharina Ribbeck†, Massachusetts Institute of Technology, USA
Exploiting Mucus for Pathogen Trapping and Attenuation of Pathogenicity

Short Talks Chosen from Abstracts

Harnessing the Full Potential of the Vaccine Induced Immune Response

Mihai G. Netea, Radboud University, Netherlands
The Role of Trained Immunity in Vaccine Responses

Beate Kampmann, London School of Hygiene and Tropical Medicine, UK

Overcoming Maternal Immunity to Drive Vaccine Induced Immunity

Speaker to be Announced

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, JUNE 29

Shifting the Paradigm in Global Health and AMR

Gordon Dougan, University of Cambridge, UK
Challenges and Solutions for Global Health

Elizabeth Klemm, Wellcome Trust, UK

The Role of Vaccines in Combatting Antimicrobial Resistance (AMR)

Gagandeep Kang, Christian Medical College/Translational Health Science and Technology Institute, India

Oral Vaccine Induced Immunity in Lower Income Settings

Firdausi Qadri†, International Centre for Diarrhoeal Disease Research, Bangladesh

Challenges in the Field

Short Talks Chosen from Abstracts

“In vivo” and “in vitro” Model Systems

Andrew J. Pollard, University of Oxford, UK
Exploiting the Controlled Human Challenge Model

Stephen Gordon, Liverpool School of Tropical Medicine, UK
Pneumococcal Human Infection Study in Malawi to Understand Vaccine Efficacy

Andrew Steer†, Murdoch Children's Research Institute, Australia
Human Infection Model of Group A Streptococcus Pharyngitis

Thomas Rudel, University of Würzburg, Germany

Innovative 3D Infection Models as Validation Tools for Vaccine Research

Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, JUNE 30

Structure Inspired Vaccine Design

Bruno Emanuel Correia, École Polytechnique Fédérale de Lausanne, Switzerland
Driving Epitope-Specific Antibody Responses with Computationally Designed Immunogens

Peter H. Seeberger, Max Planck Institute of Colloids and Interfaces, Germany

Synthetic Carbohydrate Vaccine Design

Paul R. Young, University of Queensland, Australia
Repair and Stabilize- Sequence based Trimer Design

Björn Högberg, Karolinska Institutet, Sweden
DNA Origami – Playing with the Natural and Artificial Order of Antigens to Drive Immunity

Short Talks Chosen from Abstracts

New Strategies on Cancer and Infectious Diseases

Catherine Ju-Ying Wu†, Dana-Farber Cancer Institute, USA
SLPs for Personal Neoantigen-Targeting Vaccines

Speaker to be Announced

Speaker to be Announced

Short Talks Chosen from Abstracts

Poster Session 3

THURSDAY, JULY 1

Alternative Emerging Technologies

Paul Kellam, Kymab, UK

Using B Cell Repertoires and Human Monoclonals to Explore Antigen Structure and Immunogenicity

Mariagrazia Pizza, GSK Vaccines, Italy
GMMA as Antigen and Delivery System

Gavin J. Wright, Wellcome Trust Sanger Institute, UK
Identifying Protective Antigens for Neglected Tropical Diseases

Speaker to be Announced

RNA based Vaccines

Short Talks Chosen from Abstracts

Adjuvants and Novel Vaccine Platforms

Ana Jaklenec, Massachusetts Institute of Technology, USA
Time-Controlled Particles for Vaccine Delivery

Robin Shattock, Imperial College London, UK

Using OMICs to Dissect Adjuvant Effects on Vaccine Immunity

Darrell J. Irvine, Massachusetts Institute of Technology, USA
Adjuvant Discovery

Short Talks Chosen from Abstracts

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

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FRIDAY, JULY 2

Departure