

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

The Modes of Action of Vaccine Adjuvants (S1)

October 8-13, 2014 • Sheraton Seattle Hotel • Seattle, Washington, USA
Scientific Organizers: Philippa C. Marrack, Steven Reed and Robert A. Seder
Supported by the Directors' Fund

Global Health Travel Award Deadline: May 6, 2014 / Abstract & Scholarship Deadline: June 10, 2014 / Abstract Deadline: July 8, 2014 / Discounted Registration Deadline: August 7, 2014

WEDNESDAY, OCTOBER 8

Arrival and Registration

Welcome and Keynote Address

Ruslan M. Medzhitov†, HHMI/Yale University School of Medicine, USA

THURSDAY, OCTOBER 9

Cell Death and Nucleic Acids as Adjuvants

Michael Gale, Jr., University of Washington, USA
Targeting RLR Signaling in Adjuvant Design and Function
Ken J. Ishii, Immunology Frontier Research Center, Osaka University, Japan
DNA, Alum and Cytoplasmic Sensors
Anna Marie Pyle, Yale University, USA
RNA and Innate Immunity
Short Talk(s) Chosen from Abstracts

Workshop 1

Short Talks Chosen from Abstracts

The Action of Adjuvants on Dendritic Cell Subsets

Speaker to be Announced
Nina Bhardwaj, Mt. Sinai Hospital, USA
Adjuvant Effects of Dendritic Cells in Cancer Vaccines
Karin Loré, Karolinska Institutet, Sweden
Innate Immune Activation in vivo after Adjuvant Administration
Short Talk Chosen from Abstracts

Poster Session 1

FRIDAY, OCTOBER 10

Immunostimulatory Properties of Particles

Tarek M. Fahmy, Yale University, USA
Viral-Like Particles
Gary J. Nabel, Sanofi, USA
Self Assembling Viral Nanoparticles
Darrell J. Irvine, Massachusetts Institute of Technology, USA
Adjuvant Mechanisms of Nanoparticle Vaccines
Vera Brinks†, Food and Drug Administration, USA
Immunogenicity of Protein Aggregates
Short Talk(s) Chosen from Abstracts

Workshop 2

Short Talks Chosen from Abstracts

Lipids, Emulsions and Detergents

Yan Shi, University of Calgary, Canada
Lipids and Alum
Anja Seubert, Novartis Vaccines & Diagnostics, Italy
The Mechanism of Action of the Oil-In-Water Adjuvant MF59
Eugene Maraskovsky, CSL Limited, Australia
Mechanism of Action of ISCOMATRIX Adjuvant
Short Talk Chosen from Abstracts

Poster Session 2

SATURDAY, OCTOBER 11

Human Genetics and Adjuvants

Jean-Laurent Casanova, Rockefeller University, USA
Effects of Polymorphisms in TLR Signaling Pathways on Responses to Infection and Vaccines
Luke A. J. O'Neill, Trinity College Dublin, Ireland
Genetics, Epigenetics and Metabolism in TLR Signaling
Emmanuel Mignot, Stanford University School of Medicine, USA
Too Much of a Good Thing: The Genetics of Narcolepsy and Reflections on the AS03 H1N1 Vaccine
Robert L. Coffman, Dynavax Technologies, USA
Systems Biology Studies of Adjuvant Mechanisms in Human Vaccination
Short Talk(s) Chosen from Abstracts

Workshop 3

Short Talks Chosen from Abstracts

Guiding the Immune Response

Kingston H.G. Mills, Trinity College Dublin, Ireland
TLR-Based Adjuvants for Infectious Disease and Cancer Vaccines - Enhancing Effector Over Regulatory T Cell Responses
Ross M. Kedl, University of Colorado Health Sciences Center, USA
Talk Title to be Announced
Philippa C. Marrack, HHMI/National Jewish Medical and Research Center, USA
Talk Title to be Announced
Short Talk Chosen from Abstracts

Poster Session 3

SUNDAY, OCTOBER 12

Adjuvants for Still Unmet Needs

Peter Andersen, Statens Serum Institut, Denmark
Tuberculosis
Nathalie Garçon, GlaxoSmithKline, Belgium
AS01 Adjuvant in the Context of Unmet Needs: An Overview of Its Use for TB, Malaria and HIV
Robert A. Seder, NIAID, National Institutes of Health, USA
Adjuvants for HIV Vaccines, Mice versus Humans
Derek T. O'Hagan, Novartis Vaccines, USA
Can We Design a Single Delivery System for a Broad Range of Molecules from Small Molecule Adjuvants, to Proteins and RNA Vaccines
Short Talk(s) Chosen from Abstracts

Workshop 4

Short Talks Chosen from Abstracts

New Approaches to Vaccines

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Steven Reed, Infectious Disease Research Institute, USA

Status and Clinical Development of Next Generation of TLR 4 Based Adjuvants

Speaker to be Announced

Bali Pulendran, Emory University, USA

Use of Systems Biology to Predict Vaccine Efficacy

Short Talk Chosen from Abstracts

MONDAY, OCTOBER 13

Departure