

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Origins of Allergic Disease: Microbial, Epithelial and Immune Interactions (M3)

March 24-27, 2019 • Granlibakken Tahoe • Tahoe City, California, USA

Scientific Organizers: Marsha Wills-Karp, Donald Leung and Kari Nadeau

Supported by the Directors' Fund

Abstract & Scholarship Deadline: November 27, 2018 / Abstract Deadline: December 13, 2018 / Discounted Registration Deadline: January 23, 2019

SUNDAY, MARCH 24

Arrival and Registration

MONDAY, MARCH 25

Welcome and Keynote Address

Cezmi A. Akdis, Swiss Institute of Allergy and Asthma Research, Switzerland

Origins of Allergic Disease: Microbial, Epithelial and Immune Interactions

Allergic Disease Phenotypes

Kari Nadeau, Stanford University, USA

Is There a Scientific Basis for Allergy as a "Systems Disease"?

Sally Wenzel-Morganroth, University of Pittsburgh, USA

A Wounded Epithelium in the Cross Hairs of Asthma Pathogenesis

Hugh A. Sampson, Icahn School of Medicine at Mount Sinai, USA

Phenotypes and Endotypes of Food Allergy

Short Talk(s) Chosen from Abstracts

Workshop 1: Novel Approaches to Defining Epithelial-Microbial Interactions in Allergy

Short Talks Chosen from Abstracts

Immunological Mechanisms of Allergic Disease and Tolerance

Marsha Wills-Karp, Johns Hopkins Bloomberg School of Public Health, USA

Dysfunction in Epithelial-Cell Dectin-1/IL-33 Signaling and Susceptibility to Allergic Disorders

Steven F. Ziegler, Benaroya Research Institute, University of Washington School of Medicine, USA

Epithelial Cytokines and Type-2 Inflammation

Willem van de Veen, Swiss Institute of Allergy and Asthma Research, Switzerland

The Role of B Cells in the Induction and Maintenance of Allergen Tolerance

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 26

Early Life Origins of Allergic Disease

Fernando D. Martinez, University of Arizona, USA

Molecular Basis of Asthma Protection

James E. Gern, University of Wisconsin, USA

Rhinoviruses, Allergy and Asthma

Maria G. Dominguez-Bello, Rutgers University, USA

Delivery Mode, Gut-Microbiota Structure and Metabolic Function

Susan Prescott, University of Western Australia, Australia

An Exposome Perspective: Early-Life Events and Immune Development

Short Talk(s) Chosen from Abstracts

Microbes, and Metabolites Controlling Tolerance in Allergic Disease

Eran Elinav, Weizmann Institute of Science, Israel
Microbiome at the Frontier of Personalized Medicine

Cathryn Nagler, University of Chicago, USA

The Microbiome, Timing, and Barrier Function in the Context of Allergic Disease

Benjamin J. Marsland, Centre Hospitalier Universitaire Vaudois, University of Lausanne, Switzerland

Influence of Diet, Microbes and Metabolites on Allergic Disease

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 27

Barrier Dysfunction in Allergic Diseases

Alan Irvine, Trinity College Dublin, Ireland

Role of Filaggrin and Epidermal Differentiation Complex in Atopic Dermatitis

Donald YM Leung, National Jewish Health, USA

Role of Lipids in Skin Barrier Function

Marc E. Rothenberg, Cincinnati Children's Hospital Medical Center, USA

Barrier Dysfunction in Eosinophilic Esophagitis

Gideon Lack, King's College London, UK

Targeting the Epithelial Barrier to Prevent Food Allergy

Short Talk(s) Chosen from Abstracts

Workshop 2: Exploring the System Disease Concept of Allergic Disorders

Short Talks Chosen from Abstracts

Immunotherapeutic Opportunities in Allergic Disease

Corinne Keet, Johns Hopkins School of Medicine, USA

Successes and Failures of Immunotherapy in Allergic Diseases

Dale T. Umetsu, Genentech, USA

Modulation of IgE in Allergic Disease

George D. Yancopoulos, Regeneron Pharmaceuticals, Inc., USA

IL-4R Modulation in Atopic Dermatitis and Asthma

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

THURSDAY, MARCH 28

Departure