

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Skin Health and Disease: Immune, Epithelial and Microbiome Crosstalk (D4)

April 8-11, 2019 • Herrenhausen Palace • Hannover, Germany

Scientific Organizers: Michel Gilliet, Emma Guttman, Anthony Oro and Manolis Pasparakis

Organized in collaboration with Volkswagen Foundation

Global Health Travel Award Deadline: November 13, 2018 / Abstract & Scholarship Deadline: December 12, 2018 / Abstract Deadline: January 10, 2019 / Discounted Registration Deadline: February 7, 2019

MONDAY, APRIL 8

Arrival and Registration

TUESDAY, APRIL 9

Welcome and Keynote Address

Richard L. Gallo, University of California, San Diego, USA
Skin Microbiome in Health and Disease

Epithelial-Microbiome Interactions in the Skin

***Julie A. Segre**, NHGRI, National Institutes of Health, USA
Structure and Function of the Human Skin Microbiome
Yasmine Belkaid, NIAID, National Institutes of Health, USA
The Skin Microbiota in the Control Skin Immunity

Speaker to be Announced

Short Talk(s) Chosen from Abstracts

Workshop 1

Short Talks Chosen from Abstracts

Epithelial-Immune Interactions in the Skin

***Manolis Pasparakis**, University of Cologne, Germany
Epithelial Cell Death and Skin Inflammation
Amy S. Paller, Northwestern University, USA
Genetic Barrier Disorders with Inflammation and Microbiome Abnormalities
Angela M. Christiano, Columbia University, USA
Immune Control of Hair Follicles
Short Talk Chosen from Abstracts

Poster Session 1

WEDNESDAY, APRIL 10

Microbiota-Immune Interactions in Skin and other Epithelial Surfaces

***Michel Gilliet**, University Hospital of Lausanne, Switzerland
Role of Microbiota in Innate Immune Responses of the Skin
Daniel H. Kaplan, University of Pittsburgh, USA
Immune Shaping of Skin Microbiota
Dan R. Littman, HHMI/New York University School of Medicine, USA
Intestinal Microbiome in Immunity and Autoimmunity
Benjamin J. Marsland, Centre Hospitalier Universitaire Vaudois, University of Lausanne, Switzerland
Lung Microbiota in Respiratory Diseases
Short Talk(s) Chosen from Abstracts

Workshop 2: Therapeutic Innovation for Skin Diseases

Short Talks Chosen from Abstracts

Skin Dysbiosis and Allergic Inflammation

***Emma Guttman**, Mount Sinai Hospital, USA
Th2/Th22 Driven Allergic Inflammation

Heidi H. Kong, National Institutes of Health, USA
Skin Microbiota and Development of Atopic Dermatitis

Brian Kim, Washington University School of Medicine, USA
Restoring Dysbiosis in Atopic Dermatitis

Short Talk Chosen from Abstracts

Poster Session 2

THURSDAY, APRIL 11

Epithelial-Microbiota-Immune Interactions in Tumorigenesis and Systemic Diseases

***Anthony Oro**, Stanford University, USA
Microenvironment Signaling in Skin Tumor Development and Resistance
Gian Paolo Dotto, University of Lausanne, Switzerland
Genetic and Epigenetic Determinants of Cancer associated Fibroblast Activation in Field Cancerisation

Speaker to be Announced

Ruth E. Ley†, Max Planck Institute for Developmental Biology, Germany
Manipulation of the Gut Microbiota for Metabolic Health

Short Talk(s) Chosen from Abstracts

Emerging Therapeutic Concepts

Sunil Kochhar, Nestlé Research Center, Switzerland
Modulation of Gut/Skin Microbiota by Pre- and Pro-Biotics
Kari Nadeau, Stanford University, USA
Novel Therapies and Regulation of Food Allergies
***James G. Krueger**, Rockefeller University, USA
Therapeutic Targeting Epithelial/Immune Pathways in Inflammatory Skin Diseases

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

FRIDAY, APRIL 12

Departure