

# 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*

**Tiffany C. Scharschmidt**, University of California, San Francisco, USA  
*Early Life Immune-Microbe Crosstalk in Skin*

#### 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