MONDAY, FEBRUARY 15
Arrival and Registration

TUESDAY, FEBRUARY 16

Welcome and Keynote Address (Q5)
Georg Stingl, University of Vienna, Austria
Immune-Mediated Skin Diseases: At the Crossroad of Innate and Adaptive Tissue Responses

Welcome and Keynote Address (Q6)
Manu Prakash, Stanford University, USA
Mosquitoes meet Microfluidics: High throughput Low Cost Tools for Molecular Surveillance of Vectors and Pathogens

Immune Microbiome Crosstalk at the Skin (Q5)
Julie A. Segre, National Institutes of Health, USA
The Human Skin Viral, Fungal and Microbiome
Richard L. Gallo, University of California, San Diego, USA
Microbial Control of Skin Innate Immunity
Keisuke Chris Nagao, National Institutes of Health, USA
Immune Control of Skin Microbiome

Short Talks Chosen from Abstracts

Transgenesis and Synthetic Biology (Q6)
Omar S. Akbari, University of California, San Diego, USA
Synthetic Biology and Mosquitoes
Monika Gula-Nuss, University of Nevada, USA
Ticks and Transgenesis
Bradley J. White, Verily Life Sciences, USA
Near Elimination of Aedes Aegypti by Mass Release of Wolbachia infected Males

Short Talks Chosen from Abstracts

Workshop 1: Skin Antibiotics and the Immune System (Q5)
*Richard L. Gallo, University of California, San Diego, USA
Short Talks Chosen from Abstracts

Workshop 1: Immunobiology and Metabolism (Q6)
Short Talks Chosen from Abstracts

Diversity of Skin Resident Memory T Cells (Q5)
Liv Eidsmo, Karolinska Institutet, Sweden
The Balance of Resident Effector and Memory Skin T Cells in Human Skin
Michael D. Rosenblum, University of California, San Francisco, USA
Skin Resident Memory T Regulatory Cells Control Immunity and Remodelling

Jessica Strid, Imperial College London, UK
gdT Cells Mediate Multifaceted Regulation of Epithelial Cell Health
Short Talks Chosen from Abstracts

Microbiome and Symbionts (Q6)
Luciano A. Moreira, Instituto de Pesquisas René Rachou-Fiocruz, Brazil
Wolbachia-Mediated Control of Arboviral Disease in Aedes Mosquitoes
Seemay Chou, University of California, San Francisco, USA
Friend or Foe: How Ticks Control the Diverse Microbes They Encounter
Shaden Kamhawi, NIAID, National Institutes of Health, USA
Sandfly and the Microbiome

Short Talks Chosen from Abstracts

Poster Session 1

WEDNESDAY, FEBRUARY 17

Vector-Borne Pathogens at the Skin Interface (Joint)
Guy Caljon, University of Antwerp, Belgium
Early Responses against Tsetse Transmitted Trypanosomes at the Skin Interface
Rogerio Amino, Institut Pasteur, France
The Life and Death of Malaria Parasites in the Host Skin
Sukanya Narasimhan, Yale School of Medicine, USA
Lyme Disease: Borrelia at the Skin Interface
Jesus G. Valenzuela, NIAID, National Institutes of Health, USA
Skin Responses to Vector Derived Factors

Short Talks Chosen from Abstracts

Workshop 2: MRG Receptors and Skin Immunity (Q5)
*Zhe Xinzhong Dong, Johns Hopkins University, USA
Short Talks Chosen from Abstracts

Workshop 2: Microbiome and Symbionts (Q6)
Short Talks Chosen from Abstracts

Cutaneous Dendritic Cells and Mononuclear Phagocytes (Q5)
Muzlifah A. Haniffa, Newcastle University, UK
Human Mononuclear Phagocytes and Dendritic Cells in Human Health and Disease
Sandrine Henri, Centre d'Immunologie de Marseille Luminy, France
Dissecting the Function of Dendritic Cells and Macrophages in the Skin
Niroshana Anandasabapathy, Weil Cornell Medicine, USA
Peripheral Skin Tolerance and DC:T Crosstalk

* Session Chair † Invited but not yet accepted   Program current as of March 28, 2020. Program subject to change. Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
Short Talks Chosen from Abstracts

**Immunobiology and Metabolism (Q6)**

**Elena A. Levashina**, Max Planck Institute for Infection Biology, Germany  
*Mosquito Immunity*

**Maria-Carla Saleh**, Institut Pasteur, France  
*Antiviral Immunity in Insects*

**João Pedra**, University of Maryland School of Medicine, USA  
*Tick Immunobiology*

**Michael D. Howell**, Incyte Corporation, USA  
*Proteomics to Identify Pathogen Candidates for Vaccines and Diagnosis at the Skin Interface*

**Anne C. Moore**, University College Cork, Ireland  
*Microarray Patches to Vaccinate at the Skin Interface*

**Isaac Chiu**, Harvard Medical School, USA  
*Recognition of Pathogens by Cutaneous Nociceptors*

**Daniel H. Kaplan**, University of Pittsburgh, USA  
*Immune Function of Cutaneous Sensory Neurons*

**Brian Kim**, Washington University School of Medicine, USA  
*The Benefits and Hazards of Itch*

**Short Talks Chosen from Abstracts**

**Dermal Mechanism of Host Defense: Mast Cells (Q5)**

**Stephen J. Galli**, Stanford University, USA  
*Mast Cell Biology at the Skin Interface: CombatingVenoms and Bacteria*

**Xinzhong Dong**, Johns Hopkins University, USA  
*MRG Receptors as Activators of Mast Cells*

**Anna Di Nardo**, University of California, San Diego, USA  
*Dermal Mast Cell and Skin Microbiome*

**Isaac Chiu**, Harvard Medical School, USA  
*Recognition of Pathogens by Cutaneous Nociceptors*

**Daniel H. Kaplan**, University of Pittsburgh, USA  
*Immune Function of Cutaneous Sensory Neurons*

**Brian Kim**, Washington University School of Medicine, USA  
*The Benefits and Hazards of Itch*

**Short Talks Chosen from Abstracts**

**Behavior, Physiology and Reproduction (Q6)**

**Flaminia Catteruccia**, Harvard T.H. Chan School of Public Health, USA  
*Mosquito Reproduction and Behavior*

**Geoffrey Michael Attardo**, University of California, Davis, USA  
*Rickettsial Influence on Vector Physiology*

**Kevin R. Macaluso**, University of South Alabama, USA  
*Flea Yersinia Interactions*

**Short Talks Chosen from Abstracts**

**Epidemiology, Ecology and Genetics (Q6)**

**Louis Lambrechts**, Institut Pasteur, France  
*Mosquito-Arbovirus Interactions*

**Pamela Pennington**, Universidad del Valle de Guatemala, Guatemala  
*Kissing Bugs and Chagas Disease*

**Viveka Vadyvaloo**, Washington State University, USA  
*Flea Yersinia Interactions*

**Short Talks Chosen from Abstracts**

**Neuroimmune Crosstalk in the Skin (Q5)**

**Isaac Chiu**, Harvard Medical School, USA  
*Recognition of Pathogens by Cutaneous Nociceptors*

**Daniel H. Kaplan**, University of Pittsburgh, USA  
*Immune Function of Cutaneous Sensory Neurons*

**Brian Kim**, Washington University School of Medicine, USA  
*The Benefits and Hazards of Itch*

**Short Talks Chosen from Abstracts**

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