MONDAY, FEBRUARY 13

Arrival and Registration

TUESDAY, FEBRUARY 14

Welcome and Keynote Address (Q3)
Lisa A. Beck, University of Rochester Medical Center, USA
Success Story Going from the Basic Science of Atopic Dermatitis all the way Through to the Development of Game Changing New Therapy

Welcome and Keynote Address (Q4)
Manu Prakash, Stanford University, USA
Mosquitoes Meet Microfluidics: High Throughout Low-Cost Tools for Molecular Surveillance of Vectors and Pathogens

Immune Microbiome Crosstalk at the Skin (Q3)
Tiffany C. Scharschmidt, University of California, San Francisco, USA
Early Life Bacterial-Immune Interactions in Skin
Richard L. Gallo, University of California, San Diego, USA
Microbial Control of Skin Innate Immunity
Roberto Ricardo Gonzalez, University of California, San Francisco, USA
Immune Control of Demodex Mites

Short Talks Chosen from Abstracts

Transgenesis and Synthetic Biology (Q4)
Omar S. Akbari, University of California, San Diego, USA
Synthetic Biology and Mosquitoes
Monika Gulia-Nuss, University of Nevada, USA
Genetic Tools for Tick and Tick-Borne Diseases Management
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 (Q3)
*Richard L. Gallo, University of California, San Diego, USA
Session Chair

Short Talks Chosen from Abstracts

Workshop 1: Immunobiology and Metabolism (Q4)
Short Talks Chosen from Abstracts

Dermal Mechanism of Host Defense: Mast Cells (Q3)
Stephen J. Galli, Stanford University, USA
Mast Cell Biology at the Skin Interface: Combating Venoms and Bacteria

Short Talks Chosen from Abstracts

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
Short Talks Chosen from Abstracts

Microbial Ecology and Vector Genetics (Q4)
Seemay Chou, Arcadia Science, USA
Friend or Foe: How Ticks Control the Diverse Microbes They Encounter
Louis Lambrechts, Institut Pasteur, France
Mosquito-Arbovirus Interactions
Pamela Pennington, Universidad del Valle de Guatemala, Guatemala
Kissing Bugs and Chagas Disease
Short Talks Chosen from Abstracts

Poster Session 1

WEDNESDAY, FEBRUARY 15

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 Central Role of the Skin in the Neutralization of Plasmodium Sporozoites by Cytotoxic Antibodies
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 (Q3)
*Xinzhong Dong, Johns Hopkins University, USA
Session Chair

Short Talks Chosen from Abstracts

Workshop 2: Microbiome and Symbionts (Q4)
Short Talks Chosen from Abstracts

Cutaneous T Cell-Dendritic Cell interactions (Q3)
Muzlifah A. Haniffa, Wellcome Sanger Institute, UK
Human Mononuclear Phagocytes and Dendritic Cells in Human Health and Disease
Christina Elisabeth Zielinski, Leibniz Institute for Natural Product Research & Infection Biology, Germany
Human T Cells in Skin Lockdown - Lessons from Clinical Models

* Session Chair † Invited but not yet accepted Program current as of November 17, 2022 Meal formats are based on meeting venue.
For the most up-to-date details, visit https://www.keystonesymposia.org.
Nirosnana Anandasabapathy, Weill Cornell Medicine, USA
*Peripheral Skin Tolerance and DC:T Crosstalk*

**Short Talks Chosen from Abstracts**

**Immunobiology and Metabolism (Q4)**

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*

**Short Talks Chosen from Abstracts**

**Poster Session 2**

**THURSDAY, FEBRUARY 16**

**Skin-Vector Borne Diseases: Novel Approaches to Diagnosis, Vaccines and Therapeutics (Joint)**

Yasmine Belkaid, NIAID, National Institutes of Health, USA
*The Influence of Skin Microbiota at the Cutaneous Immunity*

Nathalie Boulanger, Institut de Bacteriologie, France
*Proteomics to Identify Pathogen Candidates for Vaccines and Diagnosis at the Skin Interface*

Fiona Kuo, RAPT Therapeutics, USA
*Novel Therapeutic Approaches to Atopic Dermatitis*

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

**Short Talks Chosen from Abstracts**

**Neuroimmune Crosstalk in the Skin (Q3)**

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, Mount Sinai, USA
*Neuroimmune Regulation of Itch*

**Short Talks Chosen from Abstracts**

**Behavior, Physiology and Reproduction (Q4)**

Leah Houri-Zeeri, Rockefeller University, USA
*Mosquitoes, Love, Memory: Genetic Programs Towards a Lifetime of Behavior in Aedes Aegypti Females*

Geoffrey Michael Attardo, University of California, Davis, USA
*Tsetse Reproduction and Metabolism*

Kevin R. Macaluso, University of South Alabama, USA
*Rickettsial Influence on Vector Physiology*

**Short Talks Chosen from Abstracts**

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Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q3)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (Q4)