



Join Keystone Symposia
for the 2016 conference on:

Immunity in Skin Development, Homeostasis and Disease

February 28–March 2, 2016

Granlibakken Resort | Tahoe City, California | USA

Scientific Organizers: Frank O. Nestle, Richard L. Gallo,
Fiona M. Watt and Paul A. Khavari

Significant headway has been made in recent years in our understanding of normal development, homeostasis and repair in skin. With this progress has come increasing recognition of the role played by interactions between the many different types of cells in skin, particularly between skin cells such as keratinocytes and cells of the immune system. This meeting will provide a unique setting for in-depth discussions between skin biologists, dermatologists, immunologists and cancer biologists. More specifically, it aims to:

- Review and discuss recent progress in understanding the role of immune function in skin development, homeostasis and pathology, as well as the molecular and cellular basis of pathogenesis in skin diseases and targeted therapies;
- Highlight areas of progress as well as needs and opportunities for further research and address how research findings can be extended to understanding disease and developing treatments;
- Stimulate new collaborations and foster the scientific and professional development of all attendees, with a special emphasis on trainees and early-career scientists.

Session Topics:

- Role of Immunity in Epithelial Differentiation
- Immunity and Dysregulation of Epithelial Function
- Skin Immunity
- Workshop 1: Environment and the Skin
- Skin Microbiome
- Immune Pathways and Therapeutic Targets in Skin Disease
- Workshop 2: Biomarkers and Targeted Therapies: The Academia/Industry Interface



Submitting an abstract is a great way of participating in the conference through poster presentation and possible selection for a short talk.

Scholarship & Discounted Abstract Deadline: Oct 28, 2015

Abstract Deadline: Dec 1, 2015

Discounted Registration Deadline: Jan 5, 2016

For additional details, visit www.keystonesymposia.org/15B5.

KEYSTONE SYMPOSIA™
on Molecular and Cellular Biology
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KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Immunity in Skin Development, Homeostasis and Disease (B5)

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Supported by the Directors' Fund

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SUNDAY, FEBRUARY 28

Arrival and Registration

MONDAY, FEBRUARY 29

Opening Remarks, Remembering Andy Robertson

Keynote Address

Georg Stingl, University of Vienna, Austria
Cutaneous Immunity in Health and Disease – Changing Paradigms, Novel Concepts and their Translation

Role of Immunity in Epithelial Differentiation

Anthony Oro, Stanford University, USA
Role of Immunity in Normal and Aberrant Skin Growth

Fiona M. Watt, King's College London School of Medicine, UK
Interactions between the epidermis, immune system and commensal bacteria in tumor formation

Paul A. Khavari, Stanford University, USA
Genomic Control of Epidermal Differentiation

Masayuki Amagai, Keio University, Japan
Models of Epithelial Inflammation

Short Talk(s) Chosen from Abstracts

Immunity and Dysregulation of Epithelial Function

Howard Y. Chang, Stanford University, USA
Long Noncoding RNAs in Development and Epithelial Immunity

Manolis Pasparakis, University of Cologne, Germany
NF-kappaB Signaling in Responses to Infection, Injury and the Pathogenesis of Chronic Inflammatory Disease

Erwin F. Wagner, Spanish National Cancer Research Centre, Spain
Inflammatory Skin Diseases and the AP-1 Transcription Factor Complex

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 1

Skin Immunity

Richard L. Gallo, University of California, San Diego, USA
The Coordinated, Layered Innate Skin Defense System

Michel Gilliet, University Hospital of Lausanne, Switzerland
Innate Skin Immunity

Rachael A. Clark, Brigham and Women's Hospital, USA
Skin-Resident T Cells

Robert L. Modlin, University of California, Los Angeles, USA
T Cell and Macrophage Patterns in Skin Infection

Short Talk(s) Chosen from Abstracts

Workshop 1: Environment and the Skin

Short Talks Chosen from Abstracts

Skin Microbiome

Yasmine Belkaid, NIAID, National Institutes of Health, USA
Interactions of Skin Microbiota and the Immune System

Christina E. Zielinski, Universitätsmedizin Berlin, Germany
Microbiome T Cell Crosstalk

Björn Andersson, Karolinska Institutet, Sweden
Next Generation Sequencing of the Human Skin Microbiome in Disease

Short Talk Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 2

Immune Pathways and Therapeutic Targets in Skin Disease I

Frank Oliver Nestle, King's College, London, UK
Skin Inflammation: Genome and Environment Interplay

James G. Krueger, Rockefeller University, USA
Principles of Targeted Therapies

John J. O'Shea, NIAMS, National Institutes of Health, USA
Jak Kinases in Tissue Immunity

Wenjun Ouyang, Genentech, Inc., USA
IL 10 Family of Cytokines as Targets in Skin Inflammation

Short Talk(s) Chosen from Abstracts

Workshop 2: Inflammatory Skin Disease: More than Skin Deep. Sponsored by the National Psoriasis Foundation in Memory of Andy Robertson.

Michael D. Rosenblum, University of California San Francisco, USA
Regulatory T Cells in Skin - From Mice to Man

Nicole Ward, Case Western Reserve University, USA
Vascular Consequences of Chronic Skin Inflammation

Emma Guttman, Mount Sinai, USA
A Paradigm Shift in the Pathogenesis and Therapeutics of Atopic Dermatitis

Short Talks Chosen from Abstracts

Immune Pathways and Therapeutic Targets in Skin Disease II

Lisa A. Beck, University of Rochester Medical Center, USA
Targeting Type 2 Skin Inflammation: Implications for Atopic Disease

Thomas S. Kupper, Brigham and Women's Hospital, USA
Lineage Commitment of Memory T Cell Precursors: Implications for Allergic Contact Dermatitis and Other Skin Diseases

Thomas Krieg, University of Cologne, Germany
Integrin-Mediated Cell-Matrix Interactions - Implications for Wound Healing and Fibrosis

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

THURSDAY, MARCH 3

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Departure