

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

Autoimmunity and Tolerance (B1)

February 3-8, 2015 • Keystone Resort • Keystone, Colorado, USA

Scientific Organizers: Jane L. Grogan, Joanne L. Viney and Gerald T. Nepom

Supported by the Directors' Fund

Abstract & Scholarship Deadline: October 2, 2014 / Abstract Deadline: November 4, 2014 / Discounted Registration Deadline: December 3, 2014

TUESDAY, FEBRUARY 3

Registration

WEDNESDAY, FEBRUARY 4

Keynote Address

Maria Grazia Roncarolo, San Raffaele Scientific Institute, Italy
New Strategies for T Cell Regulation: Lessons From the Clinic

Balancing Immune Homeostasis with Effector and Regulatory T Cells

Hilde Cheroutre, La Jolla Institute for Allergy and Immunology, USA
War and Peace at the Mucosal Front Line: A T Cell's Perspective

Andrea Itano, Tempero Pharmaceuticals, USA
The Balancing between Treg and Th17 Function: Targeting Pathways for Use in the Clinic

Jane H. Buckner, Benaroya Research Institute at Virginia Mason, USA
Human T Cell Checkpoints in Autoimmune Disease

Short Talk(s) Chosen from Abstracts

Targeting Tolerogenic Pathways in Autoimmune Disease

Joan Goverman, University of Washington, USA
Self-Reactive T Cells in MS Models

Jeffrey V. Ravetch, Rockefeller University, USA
Inhibitory Fc Receptors for IgG Maintain Peripheral Tolerance

David Klatzmann, Centre National de la Recherche Scientifique, France
New Strategies for T Cell Regulation: Lessons from the Clinic

Short Talk Chosen from Abstracts

Poster Session 1

THURSDAY, FEBRUARY 5

Cytokine Governance of Tolerance and Inflammation

Daniel J. Cua, Merck Research Laboratories, USA
Role of IL-17 in Multiple Immune Checkpoints in Preclinical Models

Jennifer E. Towne, Amgen Inc., USA
Differential Role IL23 and IL17 in Intestinal Immunoregulation: Lessons Learned from Mouse and Man

Jennifer L. Gommerman, University of Toronto, Canada
Role of the TNFSF in Regulating Immune Responses in Murine Models

Frank Oliver Nestle, King's College, London, UK
Immune Sentinels and Pathogenesis in Psoriasis in the Clinic

Short Talk(s) Chosen from Abstracts

Contribution of Antigen Presenting Cells to Immune Homeostasis

Boris Reizis, Columbia University Medical Center, USA
The Role of Dendritic Cells in Experimental Models of Autoimmunity

Clara Abraham, Yale University, USA

Macrophage Regulation by Disease-Associated Pathways

Joanne L. Viney, Biogen Idec, USA

Modulating Plasmacytoid Dendritic Cell Function for Treating Autoimmune Disease

Short Talk Chosen from Abstracts

Poster Session 2

FRIDAY, FEBRUARY 6

Pathogenic and Regulatory B Cells in Autoimmune Disease

Ann Marshak-Rothstein, University of Massachusetts Medical School, USA

Role of B Cells, TLR and Type 1 IFNs in Murine Models of Lupus
David J. Rawlings, University of Washington / Seattle Children's Hospital Research Institute, USA

Altered B Cell Signaling Orchestrates Loss of Tolerance and Systemic Autoimmunity

Thomas F. Tedder, Duke University Medical Center, USA
CD22 and Regulatory B Cells in Human and Murine Disease

Ken Smith, Cambridge Institute for Medical Research, UK
Genomics and the Biology of Prognosis in Autoimmunity

Short Talk(s) Chosen from Abstracts

New Perspectives on Tolerance and Autoimmunity

Carla V. Rothlin, Yale University, USA

TAM Kinases Regulate the Magnitude of Innate and Adaptive Responses in Mice

Gerald T. Nepom, Benaroya Research Institute, USA
In Pursuit of Immune Tolerance

Robert H. Scannevin, Biogen Idec, USA
Immunomodulatory Pathways for Therapeutic Intervention in MS

Short Talk Chosen from Abstracts

Poster Session 3

SATURDAY, FEBRUARY 7

Positive and Negative Costimulatory Pathways in Tolerance and Autoimmunity

Arlene H. Sharpe, Harvard Medical School, USA
Multifaceted Function of the PD-1 Pathway in T Cell Activation and Tolerance

John Trowsdale, University of Cambridge, UK
Butyrophilins in T Cell Regulation

Jane L. Grogan, Genentech, USA
Inhibitory Receptors on T Cells

Dwight H. Kono, The Scripps Research Institute, USA
Novel Genes and Signaling Pathways in Systemic Lupus

Short Talk(s) Chosen from Abstracts

Using Systems Biology to Interrogate Immune Regulation

Nir Hacohen, Massachusetts General Hospital, USA

Genes, Networks and Variations of the Immune System

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Alan Aderem, Seattle BioMed, USA

Regulatory Circuits Controlling Inflammatory Pathways

Damien Chaussabel, Benaroya Research Institute at Virginia Mason,
USA

Systems Scale Approach to Immunologic Disease

Short Talk Chosen from Abstracts

SUNDAY, FEBRUARY 8

Departure