

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

T Cell Memory (X2)

Scientific Organizers: David B. Masopust, Ananda W. Goldrath and Marion Pepper

Sponsored by BioLegend, Inc.

B Cell Renaissance: Epigenetics, Regulation and Immunotherapy (X1)

Scientific Organizers: Paolo Casali, Nicole Baumgarth, Meinrad Busslinger and Elizabeth Leadbetter

March 1-5, 2020 • Fairmont Banff Springs • Banff, AB, Canada

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Abstract & Scholarship Deadline: November 5, 2019 / Abstract Deadline: December 4, 2019 / Discounted Registration Deadline: January 8, 2020

SUNDAY, MARCH 1

Arrival and Registration

MONDAY, MARCH 2

Keynote Session (Joint)

Max D. Cooper, Emory University, USA
The Evolution of B and T Cells

Rafi Ahmed, Emory University School of Medicine, USA
Ontogeny of Immunological Memory

B Cell Memory (Joint)

Ignacio Sanz, Emory University, School of Medicine, USA
Pathways of B Cell Activation in Human SLE

Marion Pepper, University of Washington, USA
Memory B Cell Heterogeneity

Tomohiro Kurosaki, WPI Immunology Frontier Research Center, Osaka University, Japan
Functional Characterization of Memory B Cells

Short Talks Chosen from Abstracts

Workshop 1 (X2)

Short Talks Chosen from Abstracts

Harnessing T Cells for Cancer (X2)

Thomas Gebhardt, Doherty Institute for Infection and Immunity, Australia
Resident Memory T Cells and Cancer

Marcela V. Maus, Harvard Medical School, USA
Talk Title to be Announced

Stanley R. Riddell, Fred Hutchinson Cancer Research Center, University of Washington, USA
CAR T Cells

Short Talks Chosen from Abstracts

B Cell Development (X1)

Meinrad Busslinger, Research Institute of Molecular Pathology, Austria
Transcriptional Control of B Cell Differentiation

Joan Yuan, Lund University, Sweden
Peeling Back the Layers of B Lymphopoiesis

Frederick W. Alt, Boston Children's Hospital, USA
Fundamental Roles of Chromatin Loop Extrusion in V(D)J and IgH Class Switch Recombination

Short Talks Chosen from Abstracts

Poster Session 1

TUESDAY, MARCH 3

Migration and Resident Memory (X2)

David B. Masopust, University of Minnesota, USA
Relationships Between Memory T Cell Magnitude, Quality, and Location

Heather D. Hickman, NIAID, National Institutes of Health, USA
Antiviral T Cell Biology in Peripheral Tissues

Ulrich H. Von Andrian, Harvard Medical School, USA
Peripheral T Cell Immunosurveillance

Rachael A. Clark, Brigham and Women's Hospital, Harvard Medical School, USA

Human Resident Memory T Cell Biology

Short Talks Chosen from Abstracts

Germinal Center B Cells (X1)

Gabriel D. Victora, Rockefeller University, USA
Talk Title to be Announced

Duane R. Wesemann, Harvard Medical School, USA
Germinal Center Antibody Maturation

Uttiya Basu, Columbia University, USA
Noncoding RNA Mediated Regulation of Antibody Gene Diversification

Ronald N. Germain, NIAID, National Institutes of Health, USA
GCs in B Cell Responses

Short Talks Chosen from Abstracts

Workshop 2 (X2)

Short Talks Chosen from Abstracts

Chronic Infection (X2)

Elina I. Zuniga, University of California, San Diego, USA
T Cell Adaptations during Chronic Viral Infection

E. John Wherry, University of Pennsylvania, USA
T Cell Diversity and Plasticity in the Face of Persistent Antigen

Dietmar Zehn, Technical University of Munich, Germany
Regulation of T Cell Exhaustion

Short Talks Chosen from Abstracts

Epigenetic and (Post) Transcriptional Control of B Cell Differentiation (X1)

Katia Georgopoulos, Massachusetts General Hospital, USA
Epigenetics of B Lymphocyte Specification

Jane A. Skok, New York University School of Medicine, USA
Epigenetic Modulation of B Cell Differentiation

Paolo Casali, University of Texas Long School of Medicine, USA
Epigenetics of the Antibody Response

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Short Talks Chosen from Abstracts

Poster Session 2

WEDNESDAY, MARCH 4

Memory T Cell Longevity and Maintenance (X2)

Stephen C. Jameson, University of Minnesota Medical School, USA
Regulation of T Cell Memory by Extracellular ATP

Ananda W. Goldrath, University of California, San Diego, USA
Transcriptional Regulation of T Cell Memory

John T. Harty, University of Iowa, USA
T Resident Memory in Malaria

Susan M. Kaech, The Salk Institute, USA
Programming T Cell Durability

Short Talks Chosen from Abstracts

B Cells and Immune Regulation (X1)

Andrea Cerutti, Mount Sinai School of Medicine, USA
Innate B Cells

Nicole Baumgarth, University of California, Davis, USA
B-1 Cell Biology

Hai Qi, Tsinghua University, China
Memory B Cells in Germinal Centers

Facundo D. Batista, Ragon Institute of MGH, MIT and Harvard, USA
T-B Cell Interactions

Short Talks Chosen from Abstracts

CD4 T Cell Memory (X2)

Donna L. Farber, Columbia University Medical Center, USA
Distribution of Human Memory CD4 T Cell Subsets

Daniel L. Barber, NIAID, National Institutes of Health, USA
CD4 T Cell-Mediated Control of Tuberculosis

Marc K. Jenkins, University of Minnesota Medical School, USA
Ontogeny and Maintenance of Memory CD4 T Cell Subsets

Short Talks Chosen from Abstracts

B Cells in Adipose, Thymus, Mucosa, and Digestive Mucosae (X1)

Haochu Huang, Genentech, Inc., USA
Thymic B Cells and T Cell Tolerance

Elizabeth A. Leadbetter, University of Texas Long School of Medicine, USA
Interplay of NKT and B Cells in Lipid Antigen Responses

Andrea Reboldi, University of Massachusetts Medical School, USA
Gut Mucosa B Cells: IgA and Epithelial Cells Interactions

Short Talks Chosen from Abstracts

Poster Session 3

THURSDAY, MARCH 5

New Vaccine Concepts (X2)

Carola G. Vinuesa, Australian National University, Australia
Regulation of Human B Cell Responses by Follicular Regulatory T Cells

Robert A. Seder, NIAID, National Institutes of Health, USA
Vaccines Against HIV, Malaria, TB, and Cancer

Antonio Lanzavecchia, Institute for Research in Biomedicine, Switzerland
Antibody Evolution and Clonal Selection

Louis J. Picker, Oregon Health & Science University, USA
CMV-Vectored Vaccination

Short Talks Chosen from Abstracts

B Cell Activation in Immunity and Autoimmunity (X1)

Claudia Mauri, University College London, UK
Getting to the "Bottom" of Arthritis: A Role for Regulatory B Cells and the Gut?

Ari M. Melnick, Weill Cornell Medical College, USA
Epigenetic Control of the Germinal Center Reaction and Lymphomagenesis

Alessandra Pernis, Weill Cornell Medicine, USA
ABC Cell Generation and Transcriptional Makeup

Riccardo Dalla-Favera, Columbia University, USA
B Cell Activation and Neoplastic Transformation

Short Talks Chosen from Abstracts

Panel Discussion: T Cell Nomenclature (X2)

Short Talks Chosen from Abstracts

Molecular Regulation of T Cell Memory (X2)

Ben A. Youngblood, St. Jude Children's Research Hospital, USA
Maintenance of Memory T Cell Acquired Gene Expression Programs

Andrea Schietinger, Memorial Sloan Kettering Cancer Center, USA
Regulating Exhaustion in Anti-Cancer T Cells

Steven L. Reiner, Columbia University, USA
Maintaining Vigor in Over-worked T Cell Clones: A Billion Year-Old Balancing Act

Short Talk Chosen from Abstracts

Harnessing B Cells for Cancer Immunotherapy (X1)

Mikael C. I. Karlsson, Karolinska Institutet, Sweden
Anti-MARCO Antibodies in Tumor Immunotherapy

Speaker to be Announced

Shannon J. Turley, Genentech, Inc., USA
Stromal Cells Direct Lymphoid Architecture and Immune Cell Homeostasis

Short Talk Chosen from Abstracts

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X2)

Meeting Wrap-Up: Outcomes and Future Directions (Organizers) (X1)

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FRIDAY, MARCH 6

Departure