

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

B Cells: Mechanisms in Immunity and Autoimmunity (E4)

June 17-21, 2018 • Maritim Hotel & International Congress Center Dresden • Dresden, Germany

Scientific Organizers: Lars Nitschke, Michael Reth, Roberta Pelanda and David M. Tarlinton

Supported by the Directors' Fund

Abstract & Scholarship Deadline: February 14, 2018 / Abstract Deadline: March 14, 2018 / Discounted Registration Deadline: April 17, 2018

SUNDAY, JUNE 17

Arrival and Registration

MONDAY, JUNE 18

Welcome and Keynote Address

Mark J. Shlomchik, University of Pittsburgh School of Medicine, USA
B Cells in the Germinal Center and in Autoimmunity

B Cell Differentiation

Martin Turner, Babraham Institute, UK
Regulation of B Cell Development by RNA Binding Proteins

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

Marion Pepper, University of Washington, USA
Memory B Cells in Malaria Infections

Short Talk(s) Chosen from Abstracts

Workshop 1

Short Talks Chosen from Abstracts

Innate Functions of B Cells

Nicole Baumgarth, University of California, Davis, USA
B-1 Cells and the IgM Fc Receptor

Simon Fillatreau, Institut Necker Enfants Malades, France
Regulatory Roles of B Cells in Autoimmune and Infectious Diseases

Claudia Mauri, University College London, UK
How Regulatory B Cells Bridge the Innate and the Adaptive Immune Response

Short Talk Chosen from Abstracts

Poster Session 1

TUESDAY, JUNE 19

Checkpoint Control of B Cell Signaling

Facundo D. Batista, Ragon Institute of MGH, MIT and Harvard, USA
Early Events of the B Cell Response

Michael Reth, Max Planck Institute of Immunobiology and Epigenetics, Germany
The Resting State of the BCR and B Cell Membrane Microdomains

Jürgen Wienands, Georg August University of Goettingen, Germany
Signaling Dynamics by Membrane Ig Isotypes and CD79 Proteins

Markus Müschen, Beckman Research Institute and City of Hope Comprehensive Cancer Center, USA
Clonal Selection in B Cell Malignancies

Short Talk(s) Chosen from Abstracts

Poster Session 2

Workshop 2

Short Talks Chosen from Abstracts

Diversification of Antibodies

Frederick W. Alt, Boston Children's Hospital, USA
RAG Enzymes and BCR Repertoire

Javier M. Di Noia, Institut de Recherches Cliniques de Montreal, Canada

AID Structure and Function

Daisuke Kitamura, Tokyo University of Science, Japan
Regulatory Mechanisms for Germinal Center and Memory Development

Short Talk Chosen from Abstracts

WEDNESDAY, JUNE 20

Germinal Centers and B Cell Memory Formation

Gabriel D. Victora, Rockefeller University, USA
Germinal Center B Cell Dynamics

Carola G. Vinuesa, Australian National University, Australia
T Follicular Helper Cells in the Germinal Center

David M. Tarlinton, Monash University, Australia
Germinal Center-Derived Plasma Cells

Shannon J. Turley, Genentech, Inc., USA

Fibroblastic Reticular Cells and the Maintenance of B Cell Follicles

Short Talk(s) Chosen from Abstracts

Workshop 3

Short Talks Chosen from Abstracts

B Cell Metabolism and Intersection with the Microbiome

Sidonia Fagarasan[†], RIKEN Research Center for Allergy and Immunology, Japan

IgA and the Microbiome

Joseph E. Craft, Yale University, USA
The Role of Tfh Cells in B Cell Selection

Nicola L. Harris, École Polytechnique Fédérale de Lausanne, Switzerland

Varied Roles of B Cells during Intestinal Helminth Infection

Short Talk Chosen from Abstracts

Poster Session 3

THURSDAY, JUNE 21

B Cell Tolerance and Autoimmunity

Roberta Pelanda, University of Colorado Denver, USA
Dual Antibody B Cells in Lupus, Mice and Humans

Takeshi Tsubata, Tokyo Medical and Dental University, Japan
CD72 Regulating Tolerance and Autoimmunity

Julie Zikherman, University of California, San Francisco, USA
Nur77 Imposes a Novel Layer of Tolerance on Chronically Antigen-Stimulated B Cells

Lars Nitschke, University of Erlangen, Germany
Siglecs on B Cells Controlling B Cell Tolerance

Short Talk(s) Chosen from Abstracts

B Cells in Autoimmune Diseases and Targeting Strategies

Virginia Pascual, Cornell University, USA
Molecular Networks in Human Lupus Patients

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Reinhard E. Voll, University Freiburg, Germany

*Targeting Plasma Cells in Systemic Lupus by Proteasome Inhibitors:
From Mice to Men*

John C. Cambier, University of Colorado SOM, USA

Loss of Anergy in Human Autoimmunity; Underlying Mechanisms

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

FRIDAY, JUNE 22

Departure