

KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

B Cells: Mechanisms in Immunity and Autoimmunity (E4)

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

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

Supported by the Directors' Fund

Abstract & Scholarship Deadline: / Abstract Deadline: / Discounted Registration Deadline:

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 Early 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
Human Regulatory B Cells in Autoimmune Diseases

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
The B Cell Receptor and its Regulation by the Actin Cytoskeleton

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 Göttingen, Germany
Memory B Cell Signaling

Markus Müschen[†], University of California, San Francisco, USA
Pre-BCR Signaling and the Development of ALL

Short Talk(s) Chosen from Abstracts

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[†], University of Tokyo, Japan
In vitro Germinal Centers and IgE Memory

Short Talk Chosen from Abstracts

Poster Session 2

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[†], HHMI, Yale University, USA
mTOR in Germinal Center B Cells

Nicola L. Harris[†], École Polytechnique Fédérale de Lausanne, Switzerland
Helminths and Microbiota

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
Tracking Autoreactive B Cells in vivo with a Reporter of BCR Signaling

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[†], Baylor Research Institute, USA
Molecular Networks in Human Lupus Patients

Reinhard E. Voll[†], University Freiburg, Germany
Targeting Plasma Cells in SLE by Proteasome Inhibitors in Mice and Humans

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John C. Cambier[†], University of Colorado SOM, USA

PI3K Inhibitory Pathways in B Cell Tolerance and Autoimmunity

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

FRIDAY, JUNE 22

Departure