

# 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

Sponsored by Roche

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  
*Germinal Centers and Memory B Cells*

#### 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  
*B Cell Immunity Depends on Pax5-Mediated Control of PI3K Signaling*

**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**, Albert-Ludwigs University Freiburg, Germany  
*The Nanoscale Organization of the BCR and the B Cell Membrane*

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

**Markus Müschen**, Beckman Research Institute, USA  
*Autoimmunity Checkpoints 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  
*New Insights into Mechanisms that Generate Primary and Peripheral B Cell Repertoires*

**Javier M. Di Noia**, Institut de Recherches Cliniques de Montreal, Canada  
*Structure-Function of AID Uncovers a Licensing Step for Antibody Gene Diversification*

**Daisuke Kitamura**, Tokyo University of Science, Japan  
*Regulatory Mechanisms for Memory B cell Development and Function*

#### 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

**Andreas Radbruch**, Deutsches Rheuma-Forschungszentrum, Berlin, Germany

*Regulation of Intestinal TGF $\beta$  and IgA by a Distinct Microbiota*

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

**Nicola L. Harris**, Monash University, Australia  
*B Cell-Stomach Cell Interactions Drive Lymphoid Remodelling and are Required for Efficient Adaptive Immune Responses against Intestinal Helminths*

#### 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  
*The Inhibitory B Cell Co-Receptor CD72 Regulates Tolerance to Self Nucleic Acids Crucial for Development of Systemic Lupus Erythematosus*

**Julie Zikherman**, University of California, San Francisco, USA  
*Regulation of B Cell Tolerance by Nur77*

**Lars Nitschke**, University of Erlangen, Germany  
*CD22 and Siglec-G are Inhibitory Receptors on B Cells and Prevent Autoimmunity*

#### Short Talk(s) Chosen from Abstracts

#### B Cells in Autoimmune Diseases and Targeting Strategies

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**Virginia Pascual**, Cornell University, USA

*Molecular Networks in Human Lupus Patients*

**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**