

# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## B Cell-T Cell Collaboration: Regulation and Dysregulation (T4)

April 3-6, 2022 • Herrenhausen Palace • Hannover, Germany

Scientific Organizers: Victor L.J. Tybulewicz, Kai-Michael Toellner, Julie Zikherman and Pamela L. Schwartzberg

In Collaboration with Volkswagen Foundation

Global Health Travel Award Deadline: March 14, 2022 / Scholarship Deadline: December 7, 2021 / Abstract Deadline: December 14, 2021 / Discounted Registration Deadline: February 2, 2022

### SUNDAY, APRIL 3

#### Arrival and Registration

### MONDAY, APRIL 4

#### Welcome and Keynote Session

**Michel C. Nussenzweig**, HHMI/Rockefeller University, USA  
*Immune Responses to Viruses and Vaccines*

**Garnett H. Kelsoe**, Duke University and Medical Center, USA  
*Germinal Centers and Broadly Neutralizing Antibodies*

#### Immunity to Infection

**Kathrin de la Rosa**, Max Delbrück Center, Germany  
*Antibody Diversification through Non-VDJ Insertions*

**Susan Moir**, NIAID, National Institutes of Health, USA  
*B Cell Responses to HIV*

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

#### Workshop 1: Germinal Centers: Generation and Function

##### Short Talks Chosen from Abstracts

#### Selection in the Germinal Center

**Hai Qi**, Tsinghua University, China  
*B Cell:T Cell Interactions in the Germinal Center*

**Gabriel D. Victora**, Rockefeller University, USA  
*Affinity Maturation in the Germinal Center*

**Kai-Michael Toellner**, University of Birmingham, UK  
*Migration of Memory B Cells*

**David M. Tarlinton**, Monash University, Australia  
*Pathways to the Generation and Maintenance of Plasma Cells*

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

#### Poster Session 1

### TUESDAY, APRIL 5

#### Tfh Cells

**Carolyn King**, University of Basel, Switzerland  
*T Cell Differentiation during B Cell Immune Responses*

**Pamela L. Schwartzberg**, NIAID, NHGRI, National Institutes of Health, USA

*PI3 Kinase-Mediated Pathways Orchestrate T and B Cell Contributions to Humoral Responses during Immunization and Infection*

**Michelle A. Linterman**, Babraham Institute, UK  
*Rejuvenating the Germinal Centre Response*

**Carola G. Vinuesa**, Australian National University, Australia  
*Regulation of Antibody Responses by Tfr Cells*

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

#### Workshop 2: Immunological Memory

##### Short Talks Chosen from Abstracts

#### Memory

**Victor L.J. Tybulewicz**, Francis Crick Institute, UK  
*Survival Pathways in Naïve and Memory B Cells*

**Jason G. Cyster**, HHMI/University of California, San Francisco, USA  
*Generation of Memory B Cells*

**Mark J. Shlomchik**, University of Pittsburgh School of Medicine, USA  
*Functions and Heterogeneity of Memory B Cells*

**Tri Giang Phan**, Garvan Institute of Medical Research, Australia  
*Reactivation of Memory B Cells*

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

#### Poster Session 2

### WEDNESDAY, APRIL 6

#### Autoimmunity

**Christopher C. Goodnow**, Garvan Institute of Medical Research, Australia

*Progression from Benign to Pathogenic Autoantibody by Somatic Mutation in a Rogue Clone*

**Julie Zikherman**, University of California, San Francisco, USA  
*Negative Regulation of Self-Reactive B Cells*

**Roberta Pelanda**, University of Colorado Denver, USA  
*Active PI3-Kinase Signaling Abrogates Central Tolerance in Autoreactive B Cells*

**Jennifer L. Gommerman**, University of Toronto, Canada  
*Autoimmune Disease*

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

#### Workshop 3: Autoimmunity and Immune Dysregulation

##### Short Talks Chosen from Abstracts

#### Immune Dysregulation

**Pavel Tolar**, University College London, UK  
*B Cell Signal Wiring for Fate Decisions*

**David J. Rawlings**, University of Washington, Seattle Children's Hospital Research Institute, USA  
*Gene Editing in Primary B Cells to Query Plasma Cell Function and Develop Novel Cell Therapies*

**Christopher D. C. Allen**, University of California, San Francisco, USA  
*Generation and Function of IgE in Allergy*

**Stephanie C. Eisenbarth**, Northwestern, USA  
*The Antibody Response to Food*

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

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

### THURSDAY, APRIL 7

#### Departure