

Program

FRIDAY, OCTOBER 30

08:30 am – Registration
08:55 am Welcome Remarks (T. Nakayama and A. Radbruch)

Session I: Relation of circulating and resting memory (9:00 am – 10:00 am)

Chair: Toshinori Nakayama, Hiroshi Kiyono

- 09:00 – 09:20 am **Andreas Radbruch**
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
Charité University Medicine, Berlin, Germany
“The bone marrow as a special place for maintenance of immunological memory”
- 09:20 – 09:40 am **Federica Sallusto**
Cellular Immunology Laboratory and Center of Medical Immunology, Institute for Research in Biomedicine, University of Italian Switzerland, Bellinzona, Switzerland
“Functional heterogeneity of human memory CD4⁺ T cells in health and disease”
- 09:40 – 10:00 am **Koji Tokoyoda**
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
“B cells suppress the establishment of CD49b⁺T-bet⁺ resting memory T helper cells in the bone marrow”

Coffee break (10:00 am – 10:20 am)

Session II: Formation of memory T cells (10:20 am – 11:40 am)

Chair: Alf Hamann, Stephen P. Schoenberger

- 10:20 – 10:40 am **Derk Amsen**
Sanquin and Landsteiner Laboratory for Blood Research, Amsterdam, Netherlands
“A central role for Notch in effector CD8⁺ T cell differentiation”
- 10:40 – 11:00 am **Andreas Hutloff**
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
“Generation and maintenance of antigen-specific memory T and B cells in the lung”
- 11:00 – 11:20 am **David R. Withers**
MRC Centre for Immune Regulation, College of Medical and Dental Sciences, University of Birmingham, Birmingham, UK
“Costimulatory molecules in the formation of memory CD4 T cells”
- 11:20 – 11:40 am **Julia K. Polansky**
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
“Epigenetic reprogramming during memory formation of human CD4⁺ T cells”

Poster session & Lunch break (11:40 am – 1:40 pm)

Session III: What keeps memory cells alive? (1:40 pm – 3:00 pm)

Chair: Fritz Melchers, Nobuo Sakaguchi

- 01:40 – 02:00 pm **Veit R. Buchholz**
Institute for Medical Microbiology, Immunology and Hygiene; Technische Universität München (TUM), Munich, Germany
“The smallest unit: How individual T cells generate immunological memory”
- 02:00 – 02:20 pm **Stephen P. Schoenberger**
Laboratory of Cellular Immunology, La Jolla Institute for Allergy and Immunology, La Jolla CA, USA
“New insights into T help for CTL: Immunogen dose and the dichotomous role of CD4⁺ T cells as T_H and T_{Reg}”
- 02:20 – 02:40 pm **Anja E. Hauser**
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
“Dynamics of bone marrow survival niches for long-lived plasma cells”
- 02:40 – 03:00 pm **Koji Yasutomo**
Department of Immunology, Graduate School of Medicine, Tokushima University, Tokushima, Japan
“Maintenance of memory T cell by Notch”

Coffee break (3:00 pm – 3:20 pm)

Session IV: Formation of memory B cells (3:20 pm – 4:40 pm)

Chair: Klaus Rajewsky, Claudia Berek

- 03:20 – 03:40 pm **Daisuke Kitamura**
Division of Molecular Biology, Research Institute for Biomedical Sciences, Tokyo University of Science, Noda, Japan
“IL-9 as a positive regulator of memory B cells”
- 03:40 – 04:00 pm **Claude-Agnès Reynaud**
Institut Necker-Enfants Malades, INSERM U1151-CNRS UMR 8253, Faculté de Médecine Paris Descartes, Paris, France
“A mucosal-derived systemic B-cell memory response in non-immunized mice”
- 04:00 – 04:20 pm **Tomohiro Kurosaki**
Laboratory of Lymphocyte Differentiation, WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan
Laboratory for Lymphocyte Differentiation, RIKEN Center for Integrative Medical Sciences (IMS), Yokohama, Japan
“Instructive selection of germinal center B cells into the memory compartment”
- 04:20 – 04:40 pm **Michael G. McHeyzer-Williams**
Department of Immunology and Microbial Science, The Scripps Research Institute, La Jolla, USA
“Deconstructing B cell memory at the single cell level”

Coffee break (4:40 pm – 5:00 pm)

Session V: Pathogenic memory in chronic inflammation (5:00 pm – 6:00 pm)

Chair: Michael G. McHeyzer-Williams, Sergei Nedospasow

- 5:00 – 5:20 pm **Falk Hiepe**
Charité – University Medicine Berlin, Berlin, Germany
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
“Selective depletion of memory plasma cells secreting pathogenic autoantibodies”
- 5:20 – 5:40 pm **Toshinori Nakayama**
Department of Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan
“Pathogenic Th2 (Tpath2) cells in airway inflammation”
- 5:40 – 6:00 pm **Simon Fillatreau**
Deutsches Rheuma-Forschungszentrum Berlin (DRFZ), Berlin, Germany
Institut Necker-Enfants Malades (INEM), INSERM U1151-CNRS UMR 8253, Paris, France
Université Paris Descartes, Sorbonne Paris Cité, Faculté de Médecine, Paris, France
Assistance Publique - Hôpitaux de Paris (AP-HP), Hôpital Necker Enfants Malades, Paris, France
“Regulation of secondary immune responses to bacterial pathogens”

Keynote lecture (6:00 pm)

Chair: Joachim. R. Kalden, Hiromi Kubagawa

Mark J. Shlomchik

University of Pittsburgh School of Medicine, Pittsburgh, USA

“Heterogeneity of B cell responses: The long and short of it”

Get together (7:00 pm)

SATURDAY, OCTOBER 31

Session VI: Vaccination: a way to generate memory (9:00 am – 10:40 am)

Chair: Britta Siegmund, Birgit Sawitzki

- 09:00 – 09:20 am **Ken J. Ishii**
Center for Drug Design Research, National Institutes of Biomedical Innovation, Health and Nutrition (NIBIOHN), Osaka, Japan
Laboratory of Vaccine Science, WPI Immunology Frontier Research Center (IFREC), Osaka University, Osaka, Japan
“Immuno-targeting of airway mucosa, skin layers and tumor micro-environment by novel adjuvants”
- 09:20 – 09:40 am **Stefan H.E. Kaufmann**
Max Planck Institute for Infection Biology, Berlin, Germany
“Immunity against tuberculosis in response to natural infection or vaccination”
- 09:40 – 10:00 am **Hiroshi Kiyono**
International Research and Development Center for Mucosal Vaccines, Division of Mucosal Immunology, Department of Microbiology and Immunology, The Institute of Medical Science, The University of Tokyo, Tokyo, Japan
Department of Immunology, Graduate School of Medicine, Chiba University, Chiba, Japan
“Nanogel based nasal vaccine for the prevention of *Streptococcus pneumoniae* infection”

10:00 – 10:20 am **Behazine Combadière**
*Centre d'Immunologie et des maladies infectieuses CIMI-Paris Inserm 1135
and UPMC, Paris, France*
**“Deciphering complexity of immune memory after infection and
vaccination”**

10:20 – 10:40 am **Moriya Tsuji**
*Aaron Diamond AIDS Research Center, The Rockefeller University,
New York, USA*
**“Testing immunogenicity and protective efficacy of human
malaria vaccines in human immune system (HIS) mice”**

Coffee break (10:40 am – 11:00 am)

Session VII: Protective memory in infection immunology (11:00 am – 12:40 pm)

Chair: Stefan H.E. Kaufmann, Alexander Scheffold

11:00 – 11:20 am **Kiyoshi Takeda**
*Department of Microbiology and Immunology, Graduate School of Medicine,
WPI Immunology Frontier Research Center, Osaka University, Osaka, Japan*
“Maintenance of gut homeostasis by intestinal epithelial cells”

11:20 – 11:40 am **Stephen J. McSorley**
University of California Davis, Davis, USA
“Amplifying protective CD4 T cell responses to bacteria”

11:40 – 12:00 pm **Jun Kunisawa**
*Laboratory of Vaccine Materials, National Institutes of Biomedical Innovation,
Health and Nutrition (NIBIOHN), Osaka, Japan*
*Division of Mucosal Immunology and International Research and
Development Center for Mucosal Vaccine, Institute of Medical Science, The
University of Tokyo, Tokyo, Japan*
**“Environmental factors regulate the function of IgA-producing
cells in the gut”**

12:00 – 12:20 pm **Anna Katharina Simon**
Weatherall Institute of Molecular Medicine, University of Oxford, Oxford, UK
“Autophagy and immunological memory”

12:20 – 12:40 pm **Fumihiko Ishikawa**
*Laboratory for Human Disease Models, RIKEN Center for Integrative Medical
Sciences, Yokohama, Japan*
**“Understanding in vivo kinetics of human hematopoietic
stem/progenitor cells”**

12:40 pm Closing Remark (H. Kiyono)