

*Invited Speaker***Tal Arnon**

Kennedy Institute
University of Oxford

Burkhard Becher

Institute of Experimental
Immunology Inflammation
Research, University of Zurich

Michela Di Virgilio

DNA Repair and Maintenance of
Genome Stability, Max Delbrück
Center for Molecular Medicine
(MDC)

Michael Dustin

Kennedy Institute, University
of Oxford

Simon Fillatreau

Department of Immunology,
Infectious Diseases and Hema-
tology, Institut Necker Enfants
Malades, Paris

Thomas Gebhardt

The Doherty Institute
University of Melbourne

Melanie Greter

Institute for Experimental
Immunology, University of Zurich

Florian Greten

Institute for Tumor Biology and
Experimental Therapy Georg
Speyer Haus Frankfurt a.M.

Bodo Grimbacher

Centre for Chronic Immunodeficiency,
University Clinic Freiburg

Mathias Heikenwälder

Chronic Inflammation and Cancer
German Cancer Research Center,
Heidelberg

Susanne Herold

Medical Clinic II, Infectiology
University of Giessen Lung Center

Axel Kallies

The Doherty Institute
University of Melbourne

Florian Klein

Institute of Virology
University Clinic Cologne

Martin Kriegel

Department of Immunobiology,
Yale University School of Medicine

Gerhard Krönke

Medicine 3
University Clinic Erlangen

Gioacchino Natoli

Biochemistry Humanitas
University Milan

Manolis Pasparakis

Institute for Genetics
University of Cologne

Alexander Scheffold

Institute of Immunology,
University Clinic
Schleswig-Holstein

Georg Schett

Medicine 3
University Clinic Erlangen

Andrea Schietinger

Immunology Program
Memorial Sloan Kettering
Cancer Center, New York

Katja Simon

Kennedy Institute of Rheuma-
tology, University of Oxford

Hedda Wardemann

Department of B-cell Immunology
German Cancer Research Center,
Heidelberg

Claudia Waskow

Regeneration in hematopoiesis:
Immunology of Ageing
Leibniz Institute for Age Research,
Jena

Dietmar Zehn

Weihenstephan Science Centre
for Nutrition, Land Use and
Environment, Technical University
Munich

*The Scientific Advisory Board***Frederic Geissmann**

Immunology Program, Memorial
Sloan Kettering Cancer Center,
New York

Erika Pearce

Department of Immunometabolism,
Max-Planck-Institute of
Immunobiology and Epigenetics,
Freiburg

*Charité - Universitätsmedizin Berlin Speaker***Thomas Blankenstein**

Institute for Immunology

Gerd-Rüdiger Burmester

Department of Rheumatology
and Clinical Immunology

Julia Polansky-Biskup

BIH - Center for Regenerative
Therapies (BCRT)
Deutsches Rheuma-Forschungs-
zentrum Berlin (DRFZ)
(Leibniz-Gesellschaft)

Andreas Radbruch

Deutsches Rheuma-Forschungs-
zentrum Berlin (DRFZ)
(Leibniz-Gesellschaft)

Chiara Romagnani

Deutsches Rheuma-Forschungs-
zentrum Berlin (DRFZ)
(Leibniz-Gesellschaft)

*Organising Committee***Andreas Diefenbach**

Institute of Microbiology,
Infectious Diseases and
Immunology, Charité -
Universitätsmedizin Berlin

Frank Heppner

Department of Neuropathology,
Charité - Universitätsmedizin
Berlin

Ton Schumacher

The Netherlands Cancer Institute

Eric Vivier

Centre d'Immunologie
de Marseille-Luminy

Leif-Erik Sander

Department of Infectious
Diseases and Respiratory
Medicine

Norbert Suttrop

Department of Infectious
Diseases and Respiratory
Medicine

Antigoni Triantafyllopoulou

Department of Rheumatology
and Clinical Immunology

Hans-Dieter Volk

Institute of Medical Immunology
BIH - Center for Regenerative
Therapies (BCRT)

Gerald Willimsky

Institute for Immunology

Klaus Rajewsky

Immune Regulation and Cancer,
Max Delbrück Center for
Molecular Medicine (MDC)

Reinhold E. Schmidt

Deutsches Rheuma-Forschungs-
zentrum Berlin (DRFZ)
(Leibniz-Gesellschaft)

Symposium Future of Immunology @ Berlin



Preliminary Program | November 21 - 23, 2019

Institute of Anatomy at Wilhelm-Waldeyer-Haus
Charité Campus Mitte | Philippstr. 12 | 10115 Berlin

- 11.15 **Opening and Welcome**
by Heyo Kroemer (CEO Charité)
Session 1 | 11.30 - 13.30
Chair: Ton Schumacher / Eric Vivier
- 11.30 Ton Schumacher, Amsterdam | *T cell recognition of human cancer*
- 12.00 Burkhard Becher, Zurich | *Mapping the Immune System in chronic inflammatory diseases: one cell at a time*
- 12.30 Bodo Grimbacher, Freiburg | *What can rare immunodeficiencies teach us in immunology?*
- 13.00 Gerhard Krönke, Erlangen | *The road from autoimmunity to inflammation*
- 13.30 L U N C H (Foyer)
Session 2 | 14.30 - 16.30
Chair: Gerd-Rüdiger Burmester / Antigoni Triantafyllopoulou
- 14.30 Gerd-Rüdiger Burmester, Berlin | *Charité and the DRFZ - A unique model of tight interaction between clinical and translational science*
- Antigoni Triantafyllopoulou, Berlin | *Innate immunity at the crossroad of autoimmunity and organ damage*
- 15.00 Axel Kallies, Melbourne | *Effector differentiation of regulatory and cytotoxic T cells*
- 15.30 Gioacchino Natoli, Milan | *Accessibility and usage of the genomic regulatory information in immune responses*
- 16.00 Tal Arnon, Oxford | *Perivascular pathways direct one-way migration of T cells into splenic T zones*
- 16.30 C O F F E E B R E A K (Foyer)
Session 3 | 17.00 - 19.00
Chair: Andreas Radbruch / Chiara Romagnani
- 17.00 Andreas Radbruch, Berlin | *Cellular pathology of chronic inflammatory diseases*
Chiara Romagnani, Berlin | *Innate immune checkpoints of inflammation*
- 17.30 Georg Schett, Erlangen | *Towards a molecular profiling of inflammatory disease*
- 18.00 Dietmar Zehn, München | *InTOXication causes T-cell exhaustion in chronic infection*
- 18.30 Claudia Waskow, Jena | *Generation and Regeneration of Hematopoietic Stem Cells*
- 20.00 open end > **Dinner with Students**

- 08.45 **History of the Institute for Anatomy at Charité**
by Thomas Jöns (Charité Institute for Anatomy)
Session 4 | 09.00 - 11.00
Chair: Julia Polansky-Biskup / Hans-Dieter Volk
- 09.00 Hans-Dieter Volk, Berlin | *Translational immunology - from pathogenesis to new diagnostics and therapies*
Julia Polansky-Biskup, Berlin | *Utilizing epigenetics for the benefit of Advanced Therapies*
- 09.30 Hedda Wardemann, Heidelberg | *Qualitative assessments of adaptive immune responses at single-cell level*
- 10.00 Alexander Scheffold, Kiel | *Antigen-specific regulation of tolerance & inflammation in humans*
- 10.30 Simon Fillatreau, Paris | *Novel insights into the roles of the adaptive immune system in immune regulation and immune-mediated inflammatory diseases*
- 11.00 C O F F E E B R E A K
Session 5 | 11.30 - 13.30
Chair: Frederic Geissmann / Eric Vivier
- 11.30 Eric Vivier, Marseille | *Harnessing innate immunity in cancer therapy*
- 12.00 Martin Kriegel, New Haven | *Suppression of translocating pathobionts in autoimmunity - an interventional paradigm for the future of immunology*
- 12.30 Manolis Pasparakis, Köln | *The intimate connection between cell death and inflammation*
- 13.00 Katja Simon, Oxford | *Autophagy and Proteostasis in Immune Senescence*
- 13.30 L U N C H (Foyer)
- 14.30 **ROUND TABLE** - Panel Discussion:
Chair: Andreas Diefenbach / Jens Steinbrink
Michela Di Virgilio, Frederic Geissmann, Andreas Radbruch, Klaus Rajewsky, Chiara Romagnani, Ton Schumacher, Eric Vivier | *The Future of Immunology*
- 15.30 C O F F E E B R E A K (Foyer)
Session 6 | 16.00 - 18.00
Chair: Thomas Blankenstein / Gerald Willimsky
- 16.00 Thomas Blankenstein, Berlin and Gerald Willimsky, Berlin | *T-Immunology*

- 16.30 Andrea Schietinger, New York | *Molecular and epigenetic programs defining tumor-specific T cell differentiation*
- 17.00 Mathias Heikenwälder, Heidelberg | *On the role of immune cells on NASH/liver cancer and its consequences for therapy*
- 17.30 Florian Greten, Frankfurt a.M. | *The inflammatory tumor microenvironment*
- 19.00 open end > **Dinner at Charité Hörsaalruine**

- Session 7 | 09.00 - 11.00**
Chair: Leif-Erik Sander / Norbert Suttorp
- 09.00 Norbert Suttorp, Berlin and Leif-Erik Sander, Berlin | *Host-directed approaches to diagnostics, treatment, and prevention of infectious diseases*
- 09.30 Susanne Herold, Gießen | *Macrophages - key effector cells in organ damage and injury resolution in the infected lung*
- 10.00 Florian Klein, Köln | *Broadly Neutralizing Antibodies for HIV-1 Immunotherapy*
- 10.30 Melanie Greter, Zurich | *Life and Fate of Brain Macrophages*
- 11.00 C O F F E E B R E A K
Session 8 | 11.30 - 13.30
Chair: Frederic Geissmann / Ton Schumacher
- 11.30 Frederic Geissmann, New York | *Genetic and developmental basis for macrophages functions*
- 12.00 Thomas Gebhardt, Melbourne | *A new melanoma platform to study spontaneous immunity, cancer-immune equilibrium and immune control of metastatic disease*
- 12.30 Michael Dustin, Oxford | *Supramolecular attack particles: a new cytotoxic biomaterial*
- 13.00 L U N C H and **end of symposium**