

Programme & Abstract Booklet

From INNATE to ADAPTIVE Immunity

a question of memory

1-2 July 2024
Berlin, Germany

symposium2024-drfz.de

Scientific Symposium

1-2 July 2024



Location

Langenbeck-Virchow-Haus

Luisenstraße 58/59, 10117 Berlin, Germany

&

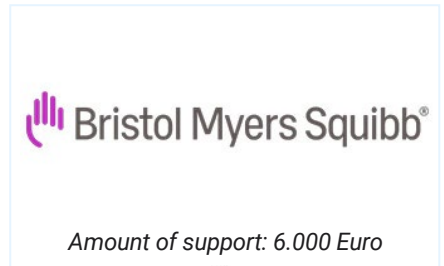
Deutsches Rheuma-Forschungszentrum Berlin, ein Leibniz Institut

Charitéplatz 1, 10117 Berlin, Germany

E-mail

BerlinSymposium@drfz.de

We gratefully acknowledge the support of the symposium by the following organisations:



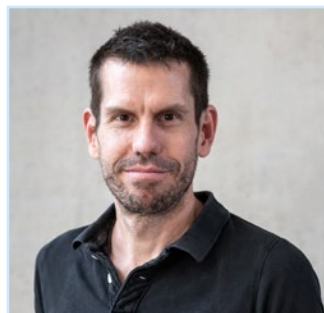
Scientific Organisers



Eicke Latz



Andreas Radbruch



Gerhard Krönke



Arturo Zychlinsky

Word of Welcome

As scientific organisers of the “From Innate to Adaptive Immunity – A Question of Memory” symposium, we would like to extend a warm welcome to our friends and colleagues joining us in Berlin on 1 and 2 July 2024. We are looking forward to spending a fantastic few days together.

We have been delighted by the positive responses to our invitations to speak at the symposium, chair sessions, and participate in the poster sessions. As you can see from the programme, many of the best minds in the fields of innate and adaptive immunity will be joining us to discuss the latest scientific developments in immunology. Over the two days, we have planned two exceptional keynote lectures, seven plenary sessions and a satellite symposium.

Due to the high demand for poster presentations, we have added an extra poster session to accommodate as many early-career researchers as possible. We encourage all participants to engage with the many eminent scientists who will attend these poster sessions. Additionally, a session on European Research Council (ERC) funding opportunities is scheduled on 1 July, which could greatly benefit many participants.

The final satellite session of the symposium, “Translating Innate and Adaptive Immune Therapies,” promises to be a highlight, featuring key-opinion leaders discussing translational immune therapies from clinical and industry perspectives.

We very much look forward to seeing you at the scientific networking evening at the DRFZ/MPI on 2 July, which will conclude the symposium. This will be a wonderful opportunity to network with colleagues, reflect on the discussions from the previous days, discover who won the poster prizes and enjoy a performance by Metabolix.

Finally, we gratefully acknowledge the financial support from the DFG and Fritz Thyssen Foundation, as well as the companies highlighted in the subsequent pages. Their support has made the organisation of this symposium possible.

**Wishing you a fun and productive symposium!
We are looking forward to welcoming you,**

Eicke Latz (DRFZ)
Andreas Radbruch (DRFZ)
Gerhard Krönke (Charité) and
Arturo Zychlinsky (MPIIB)

Programme - Monday, 1 July 2024

Langenbeck-Virchow-Haus

08:00 - 08:55 Coffee and registration

08:55 Welcome

Eicke Latz, Andreas Radbruch, Gerhard Krönke, Arturo Zychlinsky, *Berlin, Germany*

09:00 – 09:45 Keynote lecture

Chair: Eicke Latz

Vishva Dixit, *South San Francisco California, USA*

Why so many Ways to Die?

09:45 – 11:25 Session 1

Innate Immunity and Inflammasomes

Chairs: Andreas Diefenbach, Róisín McManus

09:45 - 10:10 Antigoni Triantafyllopoulou, *Berlin, Germany*

Amplification of autoimmune kidney damage by NKp46-activated ILC

10:10 – 10:35 Gerhard Krönke, *Berlin, Germany*

Metabolic checkpoints controlling onset and resolution of inflammation

10:35 – 11:00 Terje Espevik, *Trondheim, Norway*

Inflammatory responses in macrophages are regulated by Rab11-family interacting protein 2 and signalling lymphocyte activation molecule family

11:00 – 11:25 Eicke Latz *Berlin, Germany*

Death and Inflammation

11:25 - 12:00 Coffee break

12:00 – 13:40 Session 2

Nucleic Acid Sensing and Immunometabolism

Chairs: Arturo Zychlinsky, Olivia Majer

12:00 – 12:25 Luke O'Neill, *Dublin, Ireland*

A break in endosymbiosis as a basis for inflammatory diseases

12:25 – 12:50 Douglas Golenbock, *Worcester, USA*

Role of the transcription factor cellular nucleic acid-binding protein (CNBP) in malaria

12:50 – 13:15 Andrea Ablasser, Lausanne, Switzerland

Sensing DNA as a danger signal through the cGAS-STING pathway

13:15 – 13:40 Gunther Hartmann, Bonn, Germany

Innate immune sensing of nucleic acids and use for prevention and treatment

13:40 - 15:20 Lunch and Poster Session

14:15 - 15:00

Parallel Session: The European Research Council (ERC) funding opportunities

André Veira

Project Adviser in Life Sciences. ERC LS6 panel co-coordinator – Immunity, Infection and Immunotherapy

15:20 – 16:35 Session 3

Innate Immune Memory

Chairs: Gerd Burmester, Bimba Hoyer

15:20 – 15:45 Steffen Jung, Rehovot, Israel

Dissecting Monocyte Contributions to Tissue Macrophages in Lung and Brain

15:45 – 16:10 Chiara Romagnani, Berlin, Germany

Clonality and long-lasting inheritance of NK cell memory

16:10 – 16:35 Mihai Netea, Nijmegen, The Netherlands

Trained immunity: from mechanisms to disease

16:35 - 17:20

Keynote Lecture

Chair: Andreas Radbruch

Max Cooper, Atlanta, USA

Evolution of Immunity in vertebrates

17:20 - 17:50 Coffee break

17:50 - 19:30 Session 4

Generation of Immunological Memory

Chairs: Rudi Manz, Anja Hauser

17:50 – 18:15 Ann Rothstein, Worcester, USA

To STING or not STING, TLRs are the question

18:15 – 18:40 Klaus Rajewsky, Berlin, Germany

Evolutionary and somatic B cell memory

18:40 – 19:05 David Tarlinton, Melbourne, Australia

Plasma Cell Memory – a question of who survives and for how long

19:05 – 19:30 Mark Shlomchik, Pittsburgh, USA

Heterogeneity, Ontogeny and Functions of Memory B cells

Programme - Tuesday, 2 July 2024

Langenbeck-Virchow-Haus

09:00 – 10:40 Session 5

Cellular & Molecular Correlates of Protection & Pathogenicity

Chairs: Alexander Scheffold, Carsten Watzl

09:00 – 09:25 Andreas Thiel, Berlin, Germany

The Rise and Fall of “The Division of Labor Paradigm

09:25 – 09:50 Rafi Ahmed, Atlanta, USA

CD8 T Cell Lifestyle during Chronic Viral Infection and Cancer

09:50 – 10:15 Ali Ellebedy, Washington, USA

Germinal Center B cell Responses to Vaccination: Lessons from the SARS-CoV-2 Pandemic

10:15 – 10:40 Anne Puel, Paris, France

Immunity autoimmunity

10:40 - 11:10 Coffee break

11:10 – 12:25 Session 6

Residency and Lifestyles of Memory Cells

Chairs: Hyun-Dong Chang, Christine Falk

11:10 – 11:35 Donna Farber, New York, USA

Immune memory in humans across tissues and age

11:35 – 12:00 Koji Tokoyoda, Tottori, Japan

Memory T helper cell fate bifurcation

12:00 – 12:25 Andreas Radbruch, Berlin, Germany

A Naive Immunologist's View on Memory

12:25 – 13:40 Session 7

Immunological Memory – A Roadblock to Regeneration of Tolerance

Chairs: Thomas Dörner, Helena Radbruch

12:25 – 12:50 **Lars Klareskog**, *Stockholm, Sweden*

Adaptive immunity in rheumatoid arthritis -a challenging diversity

12:50 – 13:15 **Falk Hiepe**, *Berlin, Germany*

Memory plasma cells as therapeutic target for antibody-mediated diseases

13:15 – 13:40 **Mir-Farzin Mashreghi**, *Berlin, Germany*

Recruitment of plasma cells from follicular and extrafollicular immune reactions to the bone marrow

13:40 - 15:20 Lunch and Poster Session

15:20 – 18:30 Satellite Symposium

Translating Innate and Adaptive Immune Therapies

Chair: Gerhard Krönke, Eicke Latz

15:20 – 15:45 **Georg A. Schett**, *Erlangen-Nürnberg, Germany*

CAR T cell therapy in autoimmune diseases

15:45 – 16:10 **Antonio Lanzavecchia**, *Milan, Italy*

16:10 – 16:35 **Guido Junge**, *Novartis BioMedical Research*

Pioneering new therapies in Immunology - a glimpse into Novartis

16:35 – 17:00 **Yuling Luo**, *Alamar Biosciences*

NULISA: A new immunoassay that profiles inflammation at attomolar sensitivity providing novel insights into mechanisms of immune response

17:00 – 17:25 **Ray van Haaren**, *BD Biosciences*

Introducing BD Rhapsody™ single-cell ATAC-Seq and redesigned immune profiling technologies

17:25 - 17:50 **Stefan Miltenyi**, *Miltenyi Biotech*

17:50 - 18:30 **Fireside Chat, moderated by Marco Janezic**

Building a World-Leading Ecosystem for Technology Translation in Europe

Closing remarks

Eicke Latz, Andreas Radbruch, Gerhard Krönke, Arturo Zychlinsky, *Berlin, Germany*

Location Scientific Networking Evening

**18:30 - 22:30 Scientific Networking Evening
Featuring The Metabolix**

Venue: DRFZ/MPI-IB, Charitéplatz 1 - Campus address: Virchowweg 12, 10117 Berlin

follow the footsteps...

