

DZIF workshop – “Antibody-Based Therapies”

Novel approaches to prevent and treat infectious diseases

Thursday, September 24th, 2026 in Cologne

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10:30 am – 11:00 am Reception and welcome

11:00 am – 12:30 pm Session A: Immunopathology of antibodies

Chair: Thomas Krey

11:00 – 11:05 **Florian Klein (Cologne) & Thomas Krey (Lübeck) - Bridging Topic Coordinators**
Welcome

11:05 – 11:35 **Jing Jing Wang (Flinders University, Adelaide, SA, Australia)**
From Antiviral Immunity to a Dangerous Autoantibody: Unravelling vaccine-induced immune thrombocytopenia and thrombosis (VITT)

11:35 – 12:05 **Clara Schoeder (Leipzig University, Institute for Drug Discovery)**
Computational protein design as strategy for immunotherapeutic drugs and diagnostics

12:05 – 12:35 **Kathrin de la Rosa (Helmholz-HZI, CiiM, Hannover)**
From COVID-19 Biomarker Discovery to Rational Vaccine Design for Enhanced Immunity

12:35 – 1:30 pm Lunch Break

1:30 – 2:30 pm Session B: Artificial Intelligence (AI) in Antibody Design

Chair: Philipp Schommers

1:30 – 2:00 **Victor Greiff (University of Oslo, Computational and Systems Immunology)**
Prediction of antibody-antigen binding

2:00 – 2:30 **Philip Alexander Heine, Department of Medical Biotechnology (Technical University of Braunschweig)**
Engineering of the anti-SARS-CoV-2 antibody COR-101 to various omicron mutations.

2:30 – 3:00 **Sabine Suppmann (Fraunhofer, ITMP, Penzberg)**
Structure prediction-based scoring and stratification of human monoclonal antibody candidates against yellow fever virus

3:00 – 3:15 **Conclusion/Final remarks** (Florian Klein & Thomas Krey)

3:15 – 3:30 pm Coffee Break & Farewell

3:30 pm End of Meeting

