

THURSDAY, OCTOBER 13TH, 2022

08.15 **Opening and Welcome**

Prof. Dr. Frank Bordusa, Prodekan für Forschung NatFak I, Martin-Luther-University Halle-Wittenberg

Dr. Judith Marquardt, Beigeordnete für Kultur und Sport der Stadt Halle (Saale)

08.30 **Plenary Lecture: On the design of protein folds and functions**

Prof. Dr. Birte Höcker, Universität Bayreuth

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NEW THERAPEUTIC AND PROTEIN FORMATS

Chairman: Dr. Andreas Simon

09.00 **Next generation therapeutic protein formats at Roche - Challenges for CMC (production) and chances for patients**

Dr. Diana Pippig, Roche

09.30 **Bovine antibodies reveal design principles for complex complementarity-determining regions**

Dr. Hristo Svilenov, Ghent University

10.00 **Bispecific T-Cell Engager: Overview of Amgen's BiTE® molecules in different tumor indications**

Dr. Virginie Nägele, Amgen GmbH

10.15 **Coffee break**

10.45 **Fc-fusion proteins in drug development**

Dr. Andreas Seidl, Formycon AG

11.15 **Generating and screening large combinatorial libraries of cyclic peptides for drug development**

Prof. Dr. Christian Heinis, EPFL

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PROCESSING INFORMATION AND ENGINEERING

Chairwoman: Dr. Dorothee Ambrosius

11.45 **Novel multifunctional peptide tags for new protein immobilization and purification techniques**

Prof. Dr. Sonja Berensmeier, TU München

- 12.15 **High productivity purification of plasmid DNA**
Alisa Strobel, Merck
- 12.45 **Lunch**
- 13.45 **Cell-free Bioproduction: Engineering Proteins for Therapy, Diagnostics and Biotechnological Applications**
Dr. Stefan Kubick, Fraunhofer Institut Potsdam
- 14.15 **Secretory Production of Nomacopan® with ESETEC®**
Dr. Guido Seidel – Wacker Biotech GmbH
- 14.45 **AliCE – Disrupting the biopharma manufacturing. The first eukaryotic cell-free protein expression platform, that is scalable according to customer's need**
Dr. Ricarda Finnern, LenioBio GmbH

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TRENDS IN PROTEIN/ BIOMOLECULES ANALYTICS

Chairwoman: Dr. Sandra Liebscher

- 15.00 **Novel Analytics to Improve Bioprocessing**
Dr. Andreas Castan, Cytiva GmbH
- 15.30 **Characterising engineered and natural proteins with conformation-sensitive mass spectrometry**
Prof. Dr. Frederik Lermyte, TU Darmstadt
- 16.00 **Novel Fc receptor affinity chromatography characterizes therapeutic antibodies and correlates with glycan pattern and ADCC**
Dr. Andrea Krumm – Tosoh Bioscience GmbH
- 16.15 **Coffee break**
- 16.45 **Binding kinetics of challenging analytes: from ternary complexes to cells**
Dr. Ulrich Rant, Dynamic Biosensors GmbH
- 17.00 **Fragment-based sequencing methods for carbohydrates**
Prof. Dr. Sabine Flitsch, University of Manchester
- 17.30 **Evening reception including Poster session and Industry exhibition**
Prof. Dr. Markus Pietzsch, Dekan NatFak I, Martin-Luther-University Halle-Wittenberg
- 22.00 **Ending**

FRIDAY, OCTOBER 14TH, 2022

08.30 **Plenary Lecture: Expanding the genetic code - novel chemistries in living systems**

Prof. Dr. Kathrin Lang, ETH Zürich

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TUMOR VACCINATION AND NOVEL THERAPEUTICAL PROJECTS

Chairman: Dr. Jörg Schöffner

09.00 **Oncolytic viral vaccines for targeted cancer immunotherapy**

Prof. Dr. Dr. Christine Engeland – Universität Witten/Herdecke

09.30 **Biomolecular Condensates - a novel opportunity for drug discovery**

Dr. Edgar Boczek, Dewpoint Therapeutics GmbH

10.00 **Coffee break**

10.30 **AWARD CEREMONY “RAINER RUDOLPH PRIZE 2022”**

Award winner: **Dr. Florian Schmidt:** “Noninvasive assessment of gut function using transcriptional recording sentinel cells” | **Dr. Benjamin Buchmüller** “Reading complex chemical modifications in DNA” | **Daniel Klewinghaus** “Milking the Cow: Cattle Derived Chimeric Ultralong CDR-H3 Antibodies for NK Cell Redirection and Generation of Common Light Chain Bispecifics”

12.00 **Lunch**

13.00 **Paracrine delivery of therapeutic proteins**

Prof. Dr. Andreas Plückthun, University of Zurich

13.30 **Vibalogics – Manufacturing of Oncolytic Viruses**

Dr. Stefan Beyer, Vibalogics GmbH

13.45 **Modified Vaccinia Virus Ankara: Platform Based Development and Manufacturing**

Mathias Kahl, IDT Biologika

14.15 **CAR-engineered NK cells: Combination approaches for enhanced therapeutic activity**

Prof. Dr. Winfried Wels, Georg-Speyer-Haus Frankfurt/Main

14.45 **Closing remarks**

Dr. Ulrich Opitz, Roche

Prof. Dr. Harald Kolmar, TU Darmstadt

LOCATION

Deutsche Akademie der Naturforscher Leopoldina
– Nationale Akademie der Wissenschaften –
Jägerberg 1 | 06108 Halle (Saale)

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ORGANISATION COMMITEE

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