

# Forschung der Chemischen Industrie

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**Dr. Roland Götz**

BASF SE

**Present Position:**

Vice President, Head of Process Development

**Research Interests:**

Process Development & Scale-up of new active ingredients



**Dr. Laura Luh**

Bayer AG

**Present Position:**

Subcluster Lead Biology & Assays, Drug Discovery Sciences

**Research Interests:**

Early drug discovery (Target ID, target validation, Hit ID and lead characterization)



**Dr. Arjan Gelissen**

Sasol

**Present Position:**

R&D Manager Product Screening

**Research Interests:**

(Bio-)Surfactants, Rheology, Tribology, Interfacial Tension, Scattering, Image Analysis



**Dr. Nils Weskamp**

Boehringer Ingelheim Pharma GmbH & Co KG

**Present Position:**

Associate Director Computational Chemistry & Data Science

**Research Interests:**

Drug Discovery, Medicinal Chemistry, Computational Chemistry, Data Science, Animal Health Research



# Forschung der Chemischen Industrie

Industry Research - Introduced to You.

Thursday

May 15th 2025

Center for Soft Nanoscience (SoN)



INTELLIGENT  
MATTER



Partners of the Event

**1:30 pm** Dr. Roland Götz  
BASF SE

Fenmezodiaz: Synthesis and Process Development of a Structurally Complex, Chiral, Mesoionic Insecticide

**Dr. Laura Luh**  
Bayer AG

Expanding the druggable space

**Dr. Arjan Gelissen**  
Sasol

Surfactant systems with enhanced lubricity as water miscible metalworking fluids

**Dr. Nils Weskamp**  
Boehringer Ingelheim Pharma GmbH & Co KG  
Augmented Intelligence in Medicinal Chemistry:  
How do smart digital tools help us to design the molecules of the future?

**3:45 pm** Young PI Talks

Dr. Sarah Hester, Jun.-Prof. Robert Hein,  
Jun.-Prof. Iris Niehues and Jun.-Prof. Marcel Rey  
Spotlight talks from young faculty members of the University of Münster

**4:00 pm** Poster Session

Coffe break, discussion, snacks

**5:30 pm** Poster Awards



Contact: Prof. Dr. Frank Glorius  
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# FoChIn 2025

## Poster Contributions from Research Groups at the University of Münster

Bermúdez · Braunschweig · Fernández · García-Mancheño  
Glorius · Hayen · Heuer · Humpf · Jose · Kalinina · Karst

Koch · Lips · Lux · Marohn · Mootz · Müller · Næsborg  
Neugebauer · Ravoo · Schönhoff · Studer · Wegner · Wünsch

1	Amelung, Nils	easy.plAnning – AI supported planning of science education with Anni
2	Athmer, Mathis	Investigation of phosphorus-containing antiscalants and detergents and their possible degradation products via IC-ICP-MS
3	Becker, Fabrice	Fragment-based drug design: From natural product likeness to sociable fragment libraries for the exploration of ultra-large chemical spaces
4	Bergmann, Johanna	AG Wegner - Light-Controlled Systems
5	Buyting, Simon	Investigating Battery Electrolytes with 4-Electrode Electrophoretic NMR
6	Dombovski, Alexander	Covalent Coupling of Functionalized Outer Membrane Vesicles to Gold Nanoparticles by Bioorthogonal Chemistry
7	Hardt, Michael	Adaptive Air-Water Interfaces with Spiropyrans and Arylazopyrazoles
8	Helmrich, Franziska Maria	(Supra)molecular Adaptation by Coupled Stimuli
9	Kouhsari, Mehrsima Montaser	Accessing novel fungal secondary metabolites by multi-omics approach
10	Kuhn, Michael	Development of an online solid phase extraction coupled to LC-MS/MS for sensitive detection of mycotoxin biomarker in human urine
11	Mai, Florian	Metal-mediated base pairs of 5-fluorouracil and other pyrimidine nucleobases in DNA
12	Otzen, Philipp	Structural diversity of biosurfactants revealed by LC-MS: Polyol lipids from the yeast-like fungus Aureobasidium pullulans
13	Paetow, Lukas	Excited-State Dipole Moments from $\Delta$ SCF: A Benchmark

14	Pölderl, Gianna	Triplet state reactivity and long-lived emission enabled by micelles
15	Quest, Michael	Manipulating the Substituent Sphere of a Bicyclic Silicon(I) Ring Compound
16	Rana, Debanjan	Standardizing Substrate Selection: A Strategy toward Unbiased Evaluation of Reaction Generality
17	Ratschmeier, Björn	Electrocatalytic CO <sub>2</sub> Reduction in Ionic Liquid/Nitrile Electrolytes
18	Rickhoff, Clara	Studying the effect of longchain sphingolipids and cholesterol analogs on lipid bilayers via Molecular Dynamics Simulations
19	Rohlf, Tabea	Transfer learning across different photocatalytic organic reactions
20	Siutkina, Alena	Blood coagulation factors: insights into activity modulation and structure
21	Spickermann, Patrik / Friedla, Kristian Lennart	Covalently binding antibodies for signal amplification in cell diagnostics
22	Taterra, Marvin	Unraveling Allosteric Communication Paths of Drug Targets through Molecular Dynamics Simulations
23	Thomsen, Jesper Frost	The Impact of Transport in the Battery Supply Chain
24	Trần, Hoàn Quân	Path-Independent Orthogonal Photoswitching in Nematic Liquid Crystals
25	Wiethoff, Maxim-Aleksa	Photocatalytic Generation of a Ground-State Electron Donor Through Water Activation