

# Hochschule trifft Industrie 2024

**Olivier Loiseleur** (Syngenta), **Patrick Isenegger** (Syngenta), **Franziska Thomas** (Heidelberg University), **Adrián Gómez Suárez** (Wuppertal University), **Golo Storch** (Technical University of Munich)

## Wednesday, September 25<sup>th</sup> 2024

**Until 11:30 am:** Check-In at Hotel Goldener Knopf, Rathausplatz 9, 79713 Bad Säckingen

**11:30** Walk from Hotel → Syngenta

**12:00** Registration

**12:30** Lunch/Get-together

**13:30** Welcome

### Session 1 (Chair Michel Rickhaus)

**13:35** **Jaspreet Kaur, Barham Lab**

*Autophotocatalysis: unveiling a self-synthesizing library of generally applicable reductive organophotoredox catalysts*

**14:00** **Oleg Borodin, Boehringer Ingelheim Pharma GmbH & Co. KG**

*Illuminating Medicinal Chemistry: Exploration of the Parameter and Chemical Space in Photoredox C(sp<sup>2</sup>)-C(sp<sup>3</sup>) Cross-Coupling Reactions*

**14:25** Coffee Break

### Session 2 (Chair Johannes Wahl)

**14:40** **Yu Zhang, Jessen-Trefzer Lab**

*Engineering encapsulins for targeted enzyme prodrug therapy in cancer treatment*

**15:05** **Timo Heinrich, Merck KGaA**

*TEAD Selectivity Investigations – A Structure Guided Approach*

### Session 3 (Chair Adrián Gómez Suárez)

**15:30** **Subrata Patra, Katayev Lab**

*Molecular Design Using Catalytic Radical Nitration*

**15:55** **Stefan Eissler, Bachem AG**

*Large-Scale Peptide Manufacturing at Bachem*

**16:20** Coffee Break

### Session 4 (Chair Cathleen Zeymer)

**16:35** **Marius Werner, Thomas Lab**

*Engineering MHC recognition and biological kinetics of peptides by novel chemistry*

**17:00** **Jan Schütz, DSM-Firmenich**

*Advancing Flow Chemistry in the Fine Chemical Industry: A Photocatalytic Perspective*

**17:25** **Tim Langschwager, Storch Lab**

*Photocatalytic addition reactions of masked functional groups to dehydroalanines by flavin catalysis*

**18:00** Walk from Syngenta → Hotel

**19:00** Dinner

**Thursday, September 26<sup>th</sup> 2024**

**8:30** Walk from Hotel → Syngenta

**9:00** **Rebecca Buller, Zurich University of Applied Sciences**  
*Engineering protein catalysts for synthetic applications*

**9:50** Coffee Break

**Session 5 (Chair Jola Pospech)**

**10:05** **Benedikt Nißl, Konrad Lab**  
*A biomimetic synthesis of tetrodotoxin enabled by high-throughput C-H functionalization screenings*

**10:30** **Denis Gribkov, Syngenta Crop Protection**  
*PLINAZOLIN® technology. Striving for sustainable future*

**Session 6 (Chair Agnieszka Nowak-Król)**

**10:55** **Jannik Thaens, Pospech Lab**  
*C-H bond oxygenation through photo-mediated oxidative radical-polar cross-over*

**11:20** **Hergen Schultze and Bernd Schäfer, BASF SE**  
*Artificial Intelligence for Reaction Optimization*

**11:45** Lunch

**Session 7 (Chair Dmitry Katayev)**

**13:00** **Patrick Geppert, Nowak-Król Lab**  
*Azaborole-containing diarylethene photoswitches*

**13:25** **Claudio Bomio, Novartis**  
*Adventures in Atropisomerism*  
*Identification and Optimization of a Novel Class of KRASG12C Inhibitors: Discovery of JDQ443*

**13:50** **Sebastia Govaerts, Gómez Suárez Lab**  
*Synthesis of C(sp<sup>3</sup>)-rich Amine-Containing Building Blocks via Electrophilic (Spiro)cyclopropanes*

**14:20** Site Visit (#1)

**15:00** Site Visit (#2)

**16:30** Poster Session

**18:00** Dinner

**20:00** **Helma Wennemers, ETHZ, Switzerland**  
*Asymmetric Peptide Catalysis – From Simple to Complex Environments*

**22:15** Walk from Syngenta → Hotel

**Friday, September 27th 2024**

**8:30** Walk from Hotel → Syngenta

**Session 8 (Chair David Konrad)**

**9:00** **Marlene Arnold, Wahl Lab**

*Synthesis and application of axially chiral cyclobutanone oxime esters for the preparation of chiral cyclopropanes*

**9:25** **Elisabeth Speckmeier, Sanofi**

*High-Throughput Approaches in Modern Medicinal Chemistry*

**Session 9 (Chair Claudia Jessen-Trefzer)**

**9:50** **Srishti Ballabh Bahukhandi, Zeymer Lab**

*Expanding the enzymatic photoredox repertoire with PQQ-dependent dehydrogenases*

**10:15** **Paolo Tosatti, F. Hoffmann-La Roche**

*Second-generation manufacturing process of Migoprotafib*

**10:40** Coffee Break

**Session 10 (Chair Joshua Barham)**

**10:55** **Ludmilla Sturm, Rickhaus Lab**

*Unlocking Supramolecular Synthesis? The Strategic Design of Curved Polyaromatics For Self-Assembly*

**11:20** **Dr. Frank Wetterich, Bayer AG**

*Development principles for Pharmaceutical Drug Substance Manufacturing with Rogaratinib as case study*

**11:45** Poster Prize HTI 2024

**12:00** HTI 2026 Announcement and Closing Remarks

**12:15** Lunch to Go

**12:30** Walk from Syngenta → Hotel