

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 25th 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(sp²)-C(sp³) Cross-Coupling Reactions

14:25 Coffee Break

Session 2 (Chair Dmitry Katayev)

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 26th 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 Johannes Wahl)

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 **Sebastian Govaerts, Gómez Suárez Lab**

Synthesis of C(sp³)-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 Migoprotatib

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