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Tobias Schnitzer 06. April 1990 | German

Institute for Organic Chemistry Faculty for Chemistry and Pharmacy Albrecht-Ludwigs University Freiburg

Chemiehochhaus Albertstraße 1 79104 Freiburg Germany

Office: 4.004

Phone: +49 761 203 6028

Email: schnitzer@schnitzerlab.de Homepage: www.schnitzerlab.de

EDUCATION

2019

Doctor of Science (with distinction) ETH Zürich, Switzerland

2014

Master of Science (1.0; excellent) Heidelberg University, Germany

2012

Bachelor of Science (1.5; good) Heidelberg University, Germany

2009

Abitur (1.0; excellent) Ludwig-Georgs-Gymnasium Darmstadt, Germany

KEY VALUES

Supervised Students



Bachelor students (2) Master students (12) PhD students (4)

Conference Contributions



Poster presentations (10) Oral presentations (9)

Peer-reviewed Publications



PreDoc (2) PhD (15) PostDoc (8)

TOBIAS SCHNITZER

GROUP LEADER - TARGET-SELECTIVE CATALYSIS

I enjoy sharing my excitement of science with others and developing target-selective catalysts to shape a more sustainable future.

ACADEMIC EXPERIENCE

Since 2023 Research Group Leader on Target-Selective Catalysis
University of Freiburg, Germany

2020-2022 Postdoctoral Researcher & Lecturer for Organic Chemistry TU Eindhoven, The Netherlands with Prof. E. W. Meijer

Construction of Complex Molecular Systems with Emerging Complexity via Combined Covalent and Non-Covalent Synthesis

- Exploring catalysis on, with, and in the presence of supramolecular assemblies
- Kinetic investigation of non-classical reaction behavior of multi-component
- systems

Systematic experimental and computational system analysis

2015-2019 PhD Researcher

ETH Zürich, Switzerland with Prof. H. Wennemers

Proline-Rich Peptides - From Catalysts to Metal Organic Frameworks

- Development of catalytically active peptides for C-C bond formations
- Mechanistic investigations on organocatalyzed reactions
- Peptides as scaffolds in collagen models and metal organic frameworks

2014 Master Thesis Student

University of Heidelberg, Germany with Prof. A. S. K. Hashmi

Gold-Catalyzed Synthesis of Benzodipyrroles with Applications in Organic Electronics

- Development of a gold-catalyzed cyclization strategy to access unprecedented benzodipyrrole fluorophores
- Photophysical and -chemical characterization of benzodipyrroles

2013 Research Student

Stockholm University, Sweden with Prof. J.-E. Bäckvall

Towards the Stereoselective Total Synthesis of Formoterol Using Chemoenzymatic Dynamic Kinetic Resolution

- Optimization of enzyme-catalyzed amidation reactions with engineered lipases
- Exploring multiple routes for the synthesis of a formoterol precursor

2012 Bachelor Thesis Student
University of Heidelberg, Germany with Prof. G. Helmchen

Enantioselective Total Synthesis of (-)-Indolizidine 209D

Exploring multiple synthetic routes for the synthesis of an indolizidine alkaloid with a

• stereoselective iridium-catalyzed allylic substitution as key step

TEACHING

Course Lead Lecture on Organocatalysis, Univ. Freiburg

Practical course Organic Chemistry, TU Eindhoven

Practical Course Assistant Organic Chemistry, TU Eindhoven

Basic Organic Chemistry, ETH Zürich

Lecture Assistant Macromolecular and Organic Chemistry, TU Eindhoven

Chemical Biology – Peptides, ETH Zürich Basic Organic Chemistry, ETH Zürich

Inorganic Chemistry for Biotechnologists, Univ. Heidelberg

KEY PUBLICATIONS

How Subtle Changes Can Make a Difference: Reproducibility in Complex Supramolecular Systems T. Schnitzer,[‡] M. D. Preuss,[‡] J. van Basten, S. M. C. Schoenmakers, A. J. H. Spiering, G. Vantomme, E. W. Meijer* *Angew. Chem. Int Ed.*. **2022**, *61*, e202206738.

Peptide-Metal Frameworks with Metal Strings Guided by Dispersion Interactions

T. Schnitzer, E. Paernuk, N. Trapp, R. Gershoni-Poranne, H. Wennemers*

J. Am. Chem. Soc. 2021, 143, 644-648.

Organocatalysed Conjugate Addition Reactions of Aldehydes to Nitroolefins with Anti Selectivity

T. Schnitzer, A. Budinská, H. Wennemers*

Nat. Catal. 2020, 3, 143-147.

Influence of the Trans/Cis Conformer Ratio on the Stereoselectivity of Peptidic Catalysts

T. Schnitzer, H. Wennemers*

J. Am. Chem. Soc. 2017, 139, 15356-15362.

AWARDS & SCHOLARSHIPS

2023 Liebig Group Leader Scholarship of the Fonds der Chemischen Industrie

2020 Young Talent Award 2020 of the Max-Bergmann-Kreis for an excellent PhD thesis

Finalist of the Reaxys PhD Prize 2020

ETH Medal of the ETH Zürich for excellent PhD thesis

2019-2021 Postdoc. Mobility scholarship of the Swiss National Science Foundation

2018 Travel Award of the American Peptide Society

Award at the Syngenta workshop for talented PhD students

SCNAT Chemistry Travel Award

2015-2017 Kekulé PhD scholarship of the Fonds der Chemischen Industrie

2015 Price of the Dr.-Sophie-von-Bernthsen-Fond for excellent achievements in the chemistry master studies

2013 Erasmus+ Placement travel scholarship (Stay at Stockholm University)

2012-2014 Deutschlandstipendium awarded by Clariant AG

2009 Price of the German Chemical Society (GDCh), for excellent achievements in chemistry at high school

PROFESSIONAL SKILLS

Manuscript Reviewing Angewandte Chemie (Wiley-VCH)

Journal of the American Chemical Society (ACS)

The Journal of Organic Chemistry (ACS)

Organic Letters (ACS)

ACS Applied Materials & Interfaces (ACS) Helvetica Chimica Acta (Wiley-VCH)

Completed Soft Skill Courses Supervision of PhD students (1 day)

Grant writing and presenting for funding committees (2 days)

CV optimization & project valorization (1/2 day)

Laboratory Safety Safety Safety Officer at the laboratories of Prof. H. Wennemers at ETH Zürich (4 years)

Languages German (native), English (fluent), French (intermediate)

Durch (basic), Swedisch (basic), Latin (latinum)