



The Organizing Committee

(Leen Assil Companioni, Andrea Chánique Sallusti, Lisa-Maria Pusch, Carina Wagner)

welcomes you to the

24th DocDay

February 4th & 5th 2021

This DocDay is supported by:

Doctoral School of Molecular Biosciences and Biotechnology (TU Graz)

Doctoral School of Molecular Biology and Biochemistry (Uni Graz)

Austrian Association of Molecular Life Sciences and Biotechnology (ÖGMBT)

Faculty of Natural Sciences of the University of Graz

Meet the invited speakers

Prof. Dr. Frank Hollmann received his degree in Chemistry from the University of Bonn (Germany) before moving on to ETH Zürich to pursue his doctoral training. After completing his PhD in 2004, he undertook a Post-Doc at the prestigious Max-Planck institute after which he joined the industrial sector working as a research and development manager at Evonik in the Care and Surface Specialties business line until 2008. After his time in industry, Frank Hollmann became an assistant professor at TU Delft (Netherlands) where he is now a full professor of biocatalysis. The group of Prof. Frank Hollmann pursues exciting scientific projects which aim to combine photochemistry with biocatalysis to enable transformations which are not straightforward using classical chemical technologies.

Prof. Dr. Alexander Bartelt received his Diploma in Biochemistry and Molecular Biology from the University of Hamburg, Germany in 2007 with honors. During his PhD at University Medical Center Hamburg-Eppendorf he pioneered brown fat metabolic research with Prof. Jörg Heeren and embarked into immunometabolism of brown fat during his postdoctoral training at Harvard T.H. Chan School of Public Health. Since 2018, he is a tenured professor at the Institute for Cardiovascular Prevention at the Ludwig-Maximilian-University Munich. The research focus of Alexander Bartelt is the basic research of obesity, diabetes, and atherosclerosis. Dr. Bartelt's contributions to the understanding of metabolism have been recognized by national and international awards, fellowships, and honors. In his recently published book "*Der Fettversther*", Alexander Bartelt easily explains fat research to the broad public

Prof. Dr. Ingrid Dreveny: During her Master thesis, Prof. Ingrid Dreveny studied the folding and structure of synthetic peptides at the University Louis Pasteur, Strasbourg. In her PhD, she elucidated the structure and mechanism of a flavoprotein with wide-ranging applications in industrial biocatalysis under the supervision of Christoph Kratky. Prof. Ingrid Dreveny then worked as a Postdoc at the Imperial College London in the laboratory of Paul Freemont and Xiaodong Zhang and uncovered how the multi-functional molecular machine, the AAA ATPase p97 recognizes adaptor proteins. After a brief period as research fellow in the School of Pharmacy, University of Nottingham, Prof. Ingrid Dreveny was appointed lecturer in protein crystallography. The research focus of Prof. Dreveny is how macromolecular structure determines function and how they can help to understand cellular events. Her main area of expertise is macromolecular X-ray crystallography.

Scientific Program

Thursday, February 4th 2021

13:00 – 13:05	Opening & Welcome
13:05 – 13:50	Plenary talk – Prof. Dr. Frank Hollmann (TU Delft) Biocatalytic oxyfunctionalisation reactions – Are peroxygenases the new P450s?
13:50 – 14:05	Cornelia Böhm Phytochrome-Activated Diguanylyl Cyclases: The Functional Relevance of Asymmetry.
14:05 – 14:20	Franz Stocker Biological control of potato diseases guided by plant microbiome approaches.
14:20 – 14:35	Lisa Pusch ABHD13 – a novel lysophospholipase.
14:35 – 14:45	Sponsor announcement- ÖGMBT
14:45 – 15:15	BREAK/Breakout Room
15:15 – 15:55	Flash presentations + Q&A * Carina Wagner
15:55 – 16:10	Characterization of KIAA1363 as retinyl ester hydrolase in hepatic stellate cells. Dominik Bulfon
16:10 – 16:25	Bis(monoacylglycerol)phosphate Protects from Cationic Amphiphilic Drug - Induced Cytotoxicity. Chiam Hashem
16:25 – 16:40	Reduction Domain of Carboxylic Acid Reductase – A New Insight into Fungal CARs. Lisa Kofler
16:40- 16:55	Usnic acid is a novel ribosome biogenesis inhibitor
16:55 – 17:00	Polling – Best flash presentation (Day 1)/ Closing of Day 1

Friday, February 5th 2021

9:00 – 9:05	Opening & Welcome
9:05 – 9:20	<p>Sami Ullah Khan Effects of flavin cofactor modification to 8-formyl-FAD and 8-carboxy-FAD in human electron transferring flavoprotein on electron transfer in human mitochondria.</p>
9:20 – 9:35	<p>Tamara Berger Structural and functional characterization of a DNA binding protein of pIP501– a broad-host-range plasmid.</p>
9:35 – 9:50	<p>Krisztina Zajki-Zechmeister In-situ observation of enzymatic cellulose deconstruction using Atomic force microscopy (AFM).</p>
9:50 – 10:35	<p>Plenary talk – Univ.-Prof. Dr. Alexander Bartelt (Ludwig Maximilian University of Munich) Using brown fat for boosting your metabolism and career.</p>
10:35 – 11:00	BREAK/Breakout Room
11:00 – 11:35	Flash Presentations + Q&A **
11:35 – 11:40	Polling – Best flash presentation (Day 2) & Best student talk (overall)
11:40 – 12:20	Plenary talk – Prof. Dr. Ingrid Dreveny (University of Nottingham)
12:20 – 12:30	Announcement of winners & closing