

Program

ETH Zürich, Switzerland

Chloroplast Biology 2023

26th and 27th June (Mon-Tue)

Plant Biochemistry Group, Institute of Molecular Plant Biology
ETH Zurich, Zurich, Switzerland

ETH zürich

IMPB
Institute of Molecular Plant Biology

 **Swiss National
Science Foundation**

Program

Chloroplast Biology 2023

Day-1

Monday, 26.6.2023		
8:45	- 9:15	Registration & poster mounting
Session 1 / Chair: Sam Zeeman		
9:15	- 9:20	Welcome note (Sam Zeeman)
9:20	- 10:00	Ralph Bock (MPI Golm, Germany) Taming plastids for biotechnology and synthetic biology
10:00	- 10:25	Susann Wicke (HU Berlin, Germany) Evolution and relevance of plastids and their genomes in parasitic plants
10:25	- 10:45	Sonia Cruz (U Aveiro, Portugal) Sacoglossa sea slugs: on the art of stealing chloroplasts
10:45	- 11:15	<i>Coffee break (Foyer on B floor)</i>
Session 2 / Chair: Helmut Kirchhoff		
11:15	- 11:40	Silvia Ramundo (GMI Vienna, Austria) Unveiling the functions of two evolutionarily conserved proteins in chloroplast membrane maintenance and photoprotection
11:40	- 12:05	Emilie Demarsy (U Geneva, Switzerland) UVR8-induced photoprotection of the photosynthetic machinery
12:05	- 12:25	Danja Schünemann (Ruhr U Bochum, Germany) STIC2, a novel interactor of ribosome D1-nascent chain complexes, cooperates with SRP54 in D1 biogenesis
12:25	- 12:50	Ralf Bernd Klösigen (U Halle, Germany) How to get a camel through the eye of a needle? - Transport of folded proteins across the thylakoid membrane
12:50	- 14:20	<i>Lunch (Foyer on B floor)</i>
Session 3 / Chair: Diana Santelia		
14:20	- 14:40	Andreas Richter (U Rostock, Germany) Sweet and purple! Chloroplast-derived sugar signaling regulates anthocyanin accumulation in high light
14:40	- 15:00	Murray Grant (U Warwick, UK) Unravelling the contribution of the chloroplast to plant immune responses
15:00	- 15:25	Hans-Henning Kunz (LMU Munich, Germany) Chloroplast ion flux and its emerging role for plant stress signaling
15:25	- 15:40	<i>Coffee break (Foyer on B floor)</i>
15:40	- 17:10	Poster session I
Session 4 / Chair: Bationa Bennewitz		
17:10	- 17:35	Ben Engel (U Basel, Switzerland) Exploring the molecular architecture of photosynthetic organelles with cryo-electron tomography
17:35	- 17:55	Mayank Sharma (ETH Zurich, Switzerland) Illuminating VIA1: Characterising hidden components of the chloroplast ESCRT machinery
17:55	- 18:15	Serena Flori (CNRS-CEA Grenoble, France) Dynamic thylakoids remodeling in diatoms promotes energy distribution between PSII and PSI
18:15	- 18:35	Lucja Kowalewska (U Warsaw, Poland) Double-gyroid cubic membrane configuration in fully developed chloroplasts of <i>Arabidopsis thaliana</i>
19:00		Walk to Zunfthaus from LFW entrance
19:30	- 22:30	Conference dinner

Program

Day-2

Tuesday, 27.6.2023

Session 5 / Chair: Ben Field

- 9:00 - 9:25 **Alistair McCormick** (U Edinburgh, UK)
Functionalising pyrenoid-based CO₂-concentrating mechanisms in C₃ plants
- 9:25 - 9:45 **Stephanie Ruaud** (U Zurich, Switzerland)
Pyrenoid formation and carbon concentrating mechanisms in hornworts: contrasting dynamics but parallel molecular underpinnings
- 9:45 - 10:10 **Sam Zeeman** (ETH Zurich, Switzerland)
Proteins controlling granule initiation and phase transition during starch biosynthesis
- 10:10 - 10:20 **Trang Dang** (ETH Zurich, Switzerland): Talk from Posters
Unlocking the secrets of grass stomata: blue light response and the role of subsidiary cells in chloroplast starch metabolism
- 10:20 - 10:30 **Lorenz Holzner** (LMU Munich, Germany): Talk from Posters
KEA1/2 forms large protein complexes and can interact with nucleic acids

10:30 - 11:00 *Coffee break (Foyer on B floor)*

Session 6 / Chair: Susann Wicke

- 11:00 - 11:20 **Reimo Zoschke** (MPI Golm, Germany)
Translation with a reduced set of tRNAs - chloroplasts as model for the crucial role of isoacceptor tRNA abundances
- 11:20 - 11:40 **Barbara Pfister** (ETH Zurich, Switzerland)
Neofunctionalization of a starch branching enzyme to facilitate plastidial intron splicing
- 11:40 - 12:00 **Chanhong Kim** (CAS Shanghai, China)
GENOMES UNCOUPLED1 is an RNA-binding protein
- 12:00 - 12:20 **Michael Webster** (JIC Norwich, UK)
Structural basis of chloroplast transcription

12:20 - 13:20 *Lunch (Foyer on B floor)*

13:20 - 14:20 **Poster session II**

Session 7 / Chair: Barbara Pfister

- 14:20 - 14:40 **Bernhard Wurzinger** (U Vienna, Austria)
Proximity labelling in higher plant plastids
- 14:40 - 15:05 **Felix Kessler** (U Neuchatel, Switzerland)
Proteomic evidence for breakdown of Photosystem assembly in chloroplast biogenetic mutants
- 15:05 - 15:25 **Ben Field** (Aix Marseille Univ, France)
Post-translational regulation of chloroplast activity by the TOR kinase in plants

15:25 - 15:40 **Farewell (Barbara Pfister and Mayank Sharma)**



[#chloroplast2023](https://twitter.com/chloroplast2023)

Venue: **Seminar Room C5**, LFW Building, ETH-Zentrum, Universitätstrasse 2, 8006 Zürich