

Program - Talks

For more information on venues and transport information, please visit:
<http://www.chromera.org/konferenz/ise-symposium-2024>

Monday, 9 September 2024

18:30 – 21:00 Informal get-together and registration (Medicover, Bochum City Center)

Tuesday, 10 September 2024

08:30 – 09:30 Registration (Hall 3, Convention Centre, RUB Campus)

09:30 – 09:40 **Danja Schünemann**, Ruhr University Bochum – Opening note

09:40 – 10:15 **Thomas Mock**, University of East Anglia – Opening lecture
Diatom genome evolution in real time

10:15 – 10:45 Coffee break

Session 1 Chair: **Christian Schmitz-Linneweber**

10:45 – 11:15 **Michael Schroda**, RPTU Kaiserslautern-Landau
Thylakoid membrane biogenesis and maintenance requires ESCRT-III family member VIPP1

11:15 – 11:45 **Ingrid Lafontaine**, Sorbonne University
Searching alpha-solenoid proteins involved in organellar gene expression

11:45 – 12:05 **Nikolay Manavski**, LMU München
Targeted inhibition of organellar translation

12:05 – 13:30 Lunch break

Session 2 Chair: **Margarete Baier**

13:30 – 13:50 **Thomas Pfannschmidt**, Leibniz-University Hannover
The plastid-encoded RNA polymerase of chloroplasts

13:50 – 14:10 **Yury Bykov**, RPTU Kaiserslautern
A systematic bi-genomic split-GFP assay illuminates the mitochondrial matrix proteome and protein targeting routes

14:10 – 14:30 **Serena Schwenkert**, LMU Munich
Chloroplast envelope metabolite channels in lipid remodelling and photosynthetic efficiency under cold stress

14:30 – 14:45 **Maria Lozano Quiles**, HHU Düsseldorf
FRIENDLY RECORDING of plastid volume in *Marchantia*

14:45 – 15:00 **Parth Raval**, HHU Düsseldorf
Evolutionary refinement of organelle import fidelity in plants

15:00 – 16:45 Poster session with coffee

Session 3 Chair: **Eva Nowack**

16:45 - 17:15 **Richard Dorrell**, Sorbonne University
Characterising the dark matter of the diatom chloroplast proteome

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- 17:15 – 17:35 **Omar Sandoval Ibanez**, Ruhr University Bochum
Chloroplast development under suboptimal environmental conditions
- 17:35 - 17:55 **Galina Prokopchuk**, Biology Centre CAS and University of South Bohemia
Composition and diversity of mitochondrial ribosome in the diatome *Phaeodactylum tricornutum*

18:30 **Dinner at Q-West (RUB Campus)**

Wednesday, 11 September 2024

Session 4: **Chair: Sacha Baginsky**

- 9:00 – 9:30 **Miroslav Oborník**, Biology Centre CAS and University of South Bohemia
Endosymbiotic contribution of cryptophytes and stramenopiles to the myzozoan plastid ancestor
- 9:30 – 10:00 **Eva Nowack**, HHU Düsseldorf
Evolution of a nucleus-encoded endosymbiont division machinery in the trypanosomatid *Angomonas deanei*
- 10:00 – 10:20 **Kenneth Dumack**, University of Cologne
From vertical to horizontal: Sexual transmission of endosymbionts in protists

10:20 – 11:00 **Coffee break**

Session 5: **Chair: Ansgar Gruber**

- 11:00 – 11:20 **Felix Grewe**, Field Museum Chicago
Unraveling Lichen Genomics: Insights into symbioses and asexuality
- 11:20 – 11:40 **Jörn Petersen**, Leibniz-Institut DSMZ
Microbial Dark Matter in Culture – Metagenomics of non-axenic Protists and Cyanobacteria
- 11:40 – 12:00 **Michael Hammond**, Biology Centre CAS
LOPIT procedure resolves spatial protein distribution and gives functional insight on neglected euglenozoan protists *Euglena longa* and *Paradiplonema papillatum*
- 12:00 - 12:15 **Lawrence Rudy Cadena**, HHU Düsseldorf
Spatial proteomics of *Paulinella chromatophora* with the focus of endosymbiont derived organelle biogenesis
- 12:15 – 12:30 **Taniya Mary Binny**, HHU Düsseldorf
Elucidating the transport processes across the symbiotic interface in the cercozoan amoeba *P. chromatophora*

12:30 – 13:30 **Lunch break**

13:30 – 15:00 **Walk through the Botanic Garden**
(Guided Tour Options)

Session 6: **Chair: Ingrid Lafontaine**

- 15.00 – 15:20 **Oren Ostersetzer**, Hebrew University of Jerusalem
Evolutionary Aspects of Mitochondrial Gene Expression and Their Physiological Consequences in the Adaptation of Land Plants

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- 15:20 – 15:40 **Megan Sørensen**, HHU Düsseldorf
The evolution of coordinated light responses during the endosymbiont to organelle transition
- 15:40 – 16:00 **Aleš Horák**, Biology Centre CAS and University of South Bohemia
The molecular interactions between host and symbionts in diplomonids
- 16:00 – 16:15 **Mick Van Vlierberghe**, University of Liège
Underestimated genomic footprint of kleptoplasty in complex algae evolution?
- 16:15 – 16:30 **Ron Mizrahi**, Hebrew University of Jerusalem
Evolutionary Role of Mitochondrial Gene Expression in Land Plant Adaptation

16:30 – 17:10 Coffee break

Session 7: Chair: Serena Schwenkert

- 17:10 - 17:40 **Ute Armbruster**, HHU Düsseldorf
The assembly of photosystem II- About some of the many hands that make light work
- 17:40 - 18:10 **Felix Willmund**, Philipps-Universität Marburg
A truncated version of the chloroplast trigger factor chaperone is important for ribosome biogenesis
- 18:10 – 18:30 **Ansgar Gruber**, Biology Centre CAS and University of South Bohemia
Nitrogen storage and metabolism in *Chromera velia*
- 18:30 -18:45 **Lena Osterhoff**, Ruhr University Bochum
STIC2 is associated with ribosome-nascent chain complexes and involved in cotranslational sorting of thylakoid proteins

19:00 ISE member meeting

Thursday, 12 September 2024

Session 8: Chair: Ute Armbruster

- 9:00 – 9:30 **Sacha Baginsky**, Ruhr University Bochum
On the influence of chloroplast precursor protein turnover on proteome assembly
- 9:30 – 9:50 **Pawel Brzezowski**, Jagiellonian University in Cracow
Singlet oxygen-induced signalling depends on the metabolic status of the *Chlamydomonas reinhardtii* cell, potential role of aconitase and an interplay of the metabolites
- 9:50 – 10:10 **Margarete Baier**, Freie Universität Berlin
Control of thylakoid ascorbate peroxidase over plastid and nuclear gene expression

10:10 – 10:40 Coffee break

- 10:40 – 11:00 **Christian Schmitz-Linneweber**, Humboldt University Berlin
Temperature acclimation of chloroplast RNA metabolism
- 11:00 – 11:20 **Peter Kroth**, Universität Konstanz
Aureochromes - specific light receptors in Stramenopiles

11:20 Prices and good bye

Program - Poster

1 Annika Bischoff, Ruhr University Bochum

The role of chloroplast SRP54 domains and its C-terminal tail region in post- and cotranslational protein transport *in vivo*

2 Jürgen Soll, LMU Munich

Chloroplast Biogenesis

3 Peter Kmet', University of South Bohemia

Comparative Analysis of Cocoon and Mucus Structures in *Keroplastus sp.*

4 Natascha Kuenzel, HHU Düsseldorf

As thick as thieves – Endosymbiont and host glycosomes in *Angomonas deanei*

5 Daniela Ewe, Czech Academy of Sciences Centre Algatech

Photomachines – photosynthetic cell redesign for high yields of secondary metabolites

6 Xenia Safronov, Ruhr University Bochum

Studies on potential component of the TOC-/TIC-interactome with crucial role in embryogenesis of *Arabidopsis thaliana*

7 Dominique Sebastian Stolle, Ruhr University Bochum

The Role of 26S Proteasome Impairment in Chloroplast Biogenesis

8 Tim Demmig, Ruhr University Bochum

Functional interaction of STN7/8 and pCK2 in photosynthetic acclimation

9 Pia Moellenbeck, Ruhr University Bochum

The function of N-terminal acetylation of plastid precursor proteins

10 Roei Matan, Hebrew University of Jerusalem

Organellar Maturases in early land plants - a window into the evolution of the spliceosome

11 Ella Kobaivanov, Hebrew University of Jerusalem

Restorer of Fertility Like 1 (RFL1) Protein in Plant Mitochondrial Gene Expression and RNA Metabolism

12 Marta Vohnoutová, University of South Bohemia and Biology Centre CAS

Multi-class prediction of intracellular locations of proteins in organisms with complex plastids

13 Louis Graf, Sorbonne Université

Exploring the ecological functions of the globally distributed oceanic chrysophyte algae