10-12 September 2024, Ruhr University Bochum

Program - Talks

For more information on venues and transport information, please visit: http://www.chromera.org/konference/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 <i>Marchantia</i>
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	Kristina Kühn , Martin-Luther-Universität Halle-Wittenberg Elucidating the roles of two mitochondrial RNA polymerases from mitochondrial genome-wide transcription start site mapping
17:35 - 17:55	Galina Prokopchuk , Biology Centre CAS and University of South Bohemia Composition and diversity of mitochondrial ribosome in the diatome <i>Phaeodactylum tricornutum</i>
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 <i>Angomonas deanei</i>
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 <i>Euglena longa</i> and <i>Paradiplonema papillatum</i>
12:00 - 12:15	Lawrence Rudy Cadena , HHU Düsseldorf Spatial proteomics of <i>Paulinella chromatophora</i> 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 <i>P. chromatophora</i>
12:30 - 13:30	Lunch break
13:30 - 15:00	Walk through the Botanic Garden
Session 6:	Chair: Kristina Kühn
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 diplonemids
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 <i>Chromera velia</i>
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, 1	2 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 <i>Chlamydomonas reinhardtii</i> 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 Keroplatus 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 Marketa Kittel, Hebrew University of Jerusalem

Synthetic PPR Proteins as Novel Tools for Regulating Mitochondrial Gene Expression

13 Noa Carmi, Hebrew University of Jerusalem

Heat Stress Impact on OXPHOS Biogenesis in Angiosperm Mitochondria

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

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

15 Louis Graf, Sorbonne Université

Exploring the ecological functions of the globally distributed oceanic chrysophyte algae