



**XVI. Annual Meeting of the International Society of Endocytobiology
- German Section (ISE-G)**

Herzogenhorn, July 21st - 24th

<http://plantco.de/ISE-G/>



Program

Talks take place in the gymnasium. Poster sessions and industry exhibit take place in the gymnasium and the seminar room. Breakfast, lunch, supper, coffee breaks and evening entertainment are located in the dining rooms.

Please refer to the abstracts for speakers' affiliations. All welcome (W) and invited (I) talks are 17+3 minutes, all contributed (C) talks are 12+3 minutes.

Monday July 21st

- 15:15, 16:15, 17:15 Bus shuttles from Feldberg-Bärental train station to venue
- 15:15 - 19:00 Registration desk open
(open during the conference at all breaks as well)
- 19:00 *Reception with food and beverages*
- 20:00 – 21:00 Welcome and introduction (Stefan Rensing, Jörg Nickelsen)**
- W1 Wolfgang Loeffelhardt
Welcome lecture: "The glaucophytes in the postgenomic era: insights and open questions"
- later Welcome cnt'd : Moss cocktails fresh from the bench*

Tuesday July 22nd

- 7:00 – 8:45 *Breakfast*
- 9:00 – 10:30 Oral session I – Mitochondria**
Chair Volker Knoop
- 9:00 I1 Thomas Börner
Do plant mitochondria contain a complete genome?
- 9:20 C1 Felix Grewe
Unique evolution of mitochondrial genomes in the Geranium family:
nad1-intron losses and RNA-mediated transfer of the intron-encoded *matR* gene into the nucleus

- 9:35 C2 Oren Ostersetzer-Biran
Plant mitochondria: from gene expression to respiratory complex assembly
- 9:50 C3 Dietmar Funck
Compartmentalisation of proline and arginine metabolism: a cross-kingdom comparison
- 10:05 C4 Sriram Garg
N-terminal independent targeting into hydrogenosomes. Are we there ye(as)t?

10:30 *Coffee break*

10:50 – 12:00 Oral session II – Plastids II: Biotechnology and metabolism
Chair Andreas Weber

- 10:50 I2 Ralph Bock
Multigene engineering of metabolic pathways in plastids
- 11:10 C5 Janina Apitz
Posttranslational control of glutamyl-tRNA reductase and dissection into functional domains for interaction to regulatory proteins
- 11:25 C6 Andreas Blatt
Characterization of a lycopene cyclase-fusion protein from the green alga *Ostreococcus lucimarinus* catalyzing the simultaneous formation of alpha- and beta-carotene
- 11:40 C7 Oliver Dautermann
A VDL protein of the violaxanthin de-epoxidase superfamily catalyzes the formation of neoxanthin, an intermediate in the biosynthesis of the algal light-harvesting carotenoids fucoxanthin and peridinin

12:00 *Lunch*

13:00 – 14:00 Poster session I with coffee (ODD numbers)

14:00 – 15:10 Oral session III – Plastids I: Photosynthesis
Chair Jörg Nickelsen

- 14:00 I3 Andreas Weber
Towards engineering C4 photosynthesis: Lessons from transcriptomic and evolutionary analyses
- 14:20 C8 Bernhard Grimm
Two auxiliary factors for the organization of plant tetrapyrrole biosynthesis in organellar compartments
- 14:35 C9 Björn Walter
In vitro reconstitution of cotranslational D1 insertion using a chloroplast translation system reveals a role of the cpSec/Alb3 translocase and Vipp1 in PSII maintenance
- 14:50 C10 Jürgen M. Steiner
A "c6-like" cytochrome in the muroplast of *Cyanophora paradoxa*

15:15 – 18:30 *Excursion**

18:00 *Supper (for those who are not on excursion)*

19:30 *ISE-G members meeting (non-members welcome to attend)*

*Excursion

15:20

Departure for those taking the longer but more comfortable path

15:40

Departure for those taking the steep and rocky alpine hiking path

16:00 - 18:30

Glacial relict excursion (with Michael Scherer-Lorenzen, University of Freiburg) to scenic Feldsee. Supper with Black Forest specialties food at Raimartihof.

ca. 19:00

Return

Wednesday July 23rd

7:00 – 8:45

Breakfast

9:00 – 10:30

Oral session IV – RNA stability and processing

Chair Thomas Börner

9:00

I4 Volker Knoop

RNA editing in the endosymbiotic organelles: new surprises

9:20

C11 Michael Tillich

Angiosperm-wide analysis of chloroplast RNA editing sites and factors employing *Nicotiana tabacum* as experimental system

9:35

C12 Mizuki Takenaka

Homo- and heteromers of MORF proteins mediate interactions with PPR type RNA editing factors in plant organelles

9:50

C13 Mareike Schallenberg-Rüdinger

The first complete set of RNA editing factors in plant mitochondria: The DYW type Pentatricopeptide Repeat (PPR) protein family in the model moss *Physcomitrella patens*

10:05

C14 Alexandra-Viola Bohne

A small multifunctional pentatricopeptide repeat protein in the chloroplast of *Chlamydomonas reinhardtii*

10:30

Coffee break

10:50 – 12:00

Oral session V – Endosymbiosis and evolution

Chair Uwe Maier

10:50

I5 Sven B. Gould

When robust plastids meet sea slugs

11:10

C15 Jan de Vries

Host response underpins plastid compatibility in animal cells

11:25

C16 Martin Lohr

Transcriptomic and biochemical evidence for a cryptic plastid in a heterotrophic chrysophyte

11:40

C17 Steven Ball

Dissecting the chlamydial connection to storage and polysaccharide metabolism

12:00

Lunch

13:00 – 15:00

Poster session II with coffee & industry exhibits

13:00 – 14:00 EVEN numbers, 14:00 – 15:00 ALL posters

15:00 – 16:50 Oral session VI – Plastids III: Control of expression and function

Chair Ralph Bock

- 15:00 C18 Rudolf Hagemann
How can nuclear genes influence the modes of plastid transmission?
- 15:15 C19 Elena Ulbricht-Jones
Plastid encoded factors for leaf development in *Oenothera*
- 15:30 C20 Dirk Licht
The role of *Nicotiana tabacum* chloroplast ribonucleoproteins in chloroplast gene expression
- 15:45 C21 Laura Kleinknecht
RAP, the sole octotricopeptide repeat protein in *Arabidopsis*, is required for chloroplast 16S rRNA maturation
- 16:00 C22 Julia Legen
Identification of mRNAs localized to chloroplast membranes
- 16:15 C23 Ayako Okuzaki
The RNA binding domains of chloroplast CP31A are sufficient for stabilizing the chloroplast *ndhF* transcript
- 16:30 C24 Anna Schoenberg
ChloroPhos1.0 identifies new phosphorylation targets of plastid casein kinase II (pCK II) in *Arabidopsis thaliana*
- 17:00 *ISE-G soccer tournament*
- 18:00 *Supper*
- later Farewell party*

Thursday July 24th

7:00 – 8:45 *Breakfast*

9:00 – 10:30 Oral session VII – Secondary plastids

Chair Peter Kroth

- 9:00 I6 Uwe Maier
Solar fueled microfactories from the oceans
- 9:20 C25 Ann-Kathrin Ludewig
Apicomplexans and the fate of plastids
- 9:35 C26 Joern Petersen
Chromera velia, endosymbioses and the rhodoplex hypothesis
- 9:50 C27 Julia Lau
Ubiquitination is essential for protein translocation via a modified ERAD-system in complex plastids
- 10:05 C28 Ansgar Gruber
Occurrence and significance of C-terminal targeting motifs in organisms with secondary plastids
- 10:30 *Coffee break*

10:50 – 11:35 Oral session VIII – Plastids IV: Protein transport

Chair Sven Gould

- 10:50 C29 Beatrix Duenschede
cpSRP54 was recruited to cpSRP43 mediated LHCP targeting during land plant evolution

11:05	C30	<u>Daniel Köhler</u> Characterization of plastid protein import in Tic56-deficient plants reveals functional import in the absence of the 1 MDa Tic20-complex
11:20	C31	<u>Rena Isemer</u> The plastid proteins WHIRLY1 and WHIRLY3 – twins or distant relatives?
11:45		Announcement of prizes and closing remarks
12:00		<i>Lunch, end of meeting</i>
13:30, 14:30		Bus shuttles to Feldberg-Bärental train station

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