

Annual Meeting of the ISE-G

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



Ludwig-Maximilians-University Munich

October 8 - 10, 2012



eppendorf

Program

Monday, October 8

13:00-14:00 *Registration*
14:00-14:10 *Welcome*

Session 1: Secondary and tertiary endosymbiosis

14:10-15:50 Speakers: Maier, Kroth, Stork, Bolte
15:50-16:30 *Coffee break*

Session 2: Evolution/Genetics

16:30-17:45 Speakers: Börner, Scharff, Zupok
18:00 *ISE-G- Members' Meeting with Pizza*

Tuesday, October 9

Session 3: Organellar Gene Expression

09:00-10:40 Speakers: Tillich, Takenaka, Ruwe, Teubner
10:40-11:15 *Coffee break*

Session 4.1: Membrane biogenesis

11:15-12:30 Speakers: Zerges, Bohne, Rengstl
12:30-13:30 *Lunch break*
13:30-15:00 Poster Session

Session 4.2: Membrane biogenesis

15:00-16:40 Speakers: Komenda, Pribil, Otters, Ankele
16:40-17:10 *Coffee break*

Session 5: Physiology

17:10-18:25 Speakers: Oelmüller, Thormählen, Hartl
19:00 *Bavarian dinner in the restaurant „Erdinger Weißbräu“*

Wednesday, October 10

Session 6: Transport

09:00-10:40 Speakers: Haferkamp, Sommer, Fellerer, Mehmer
10:40-11:30 *Coffee break*
11:30- ca. 12:00 Talk/Poster Awards (Sitte and Eppendorf prizes), Closing remarks

General Information

DATE AND VENUE

Date: October 8th- 10th, 2012

Venue: Biocenter LMU, Großhaderner Str. 2-4, 82152 Planegg-Martinsried

ARRIVAL/PUBLIC TRANSPORTATION

The closest subway station is U-Bhf Großhadern (line U6) from where you can take the bus 266 direction "Planegg" and go as far as "Martinsried, Großhaderner Str". Or you get off the train at U-Bhf "Klinikum Großhadern" and have a 10-minute walk to the biocenter (see dashed blue line on map, page 10).

TALKS

All sessions will be held in Room B01.019, Biocenter. All speakers are kindly requested to have their presentation available before the session starts. All talks are 20 min + 5 min for discussion. Operating system Windows XP (MS Office 2010).

POSTERS

We provide standard poster boards which will be numbered. Posters can be put up any time before the poster session on Tuesday afternoon (13:30-15:15h).

LUNCH

Lunch will be served in the cafeteria of the MPI (<http://www.albatros-catering.de/>) and can be paid in Euro. Unfortunately, lunch in the Mensa of the LMU Biocenter is not possible as a dining hall card is required. An alternative is the cafeteria "freshmaker" (<http://www.cafe-freshmaker.de/wochenkarte.php>) which is open every day from 8:30 to 5 pm but slightly more expensive. For location of cafeterias, see map, page 10.

CONFERENCE DINNER

The conference dinner will take place at the Bavarian restaurant "Erdinger Weißbräu" on Tuesday evening, October 9, at 7 p.m (most main dishes cost between 7-16 €). Within 15 minutes by walk, we will reach the location at Heiglhofstr. 13, 81377 Munich (see map, page 10).

Detailed Schedule

Monday, October 8

13:00-14:00 *Registration with coffee and cookies*
 14:00-14:10 *Welcome: J. Nickelsen (Munich) and P. Kroth (Konstanz)*

Session 1: Secondary and tertiary endosymbiosis (chair: R. Oelmüller)

Posters: Grosche (P1), Lau (P2)

14:10-14:35 Diatoms as bioreactors
 Uwe Maier (Marburg), T1

14:35-15:00 Metabolic reallocations in diatoms
 Peter Kroth (Konstanz), T2

15:00-15:25 How do plastid membrane proteins cross the Sec61 translocon in the
 outermost membrane of diatom complex plastids?
 Simone Stork (Marburg), T3

15:25-15:50 Insights into peroxisomes of diatoms
 Kathrin Bolte (Marburg), T4

15:50-16:30 *Coffee break*

Session 2: Evolution/Genetics (chair: S. Greiner)

Posters: Pellizzer (P3), Massouh (P4)

16:30-16:55 Do mature chloroplasts contain DNA?
 Thomas Börner (Berlin), T5

16:55-17:20 Reductive plastid genome development: a comparison of tobacco and
 parasitic species
 Lars Scharff (Potsdam), T6

17:20-17:45 Plastid mediated speciation barriers in the Evening Primrose (Oenothera)
 Arkadiusz Sebastian Zupok (Potsdam), T7

18:00 *ISE-G- Members' Meeting with Pizza*

Tuesday, October 9

Session 3: Organellar Gene Expression (chair: T. Börner)

- Posters: [Ou \(P5\)](#), [Ruwe \(P6\)](#), [Kleinknecht \(P7\)](#), [Finster \(P8\)](#), [Härtel \(P9\)](#), [Zehrmann \(P10\)](#), [Császár \(P11\)](#)
- 09:00-09:25 Chloroplast RNA editing: tobacco reloaded
Michael Tillich (Potsdam), T8
- 09:25-09:50 MORF proteins are involved in RNA editing in plant mitochondria and plastids
Mizuki Takenaka (Ulm), T9
- 09:50-10:15 Small RNAs in Chloroplasts and Mitochondria, binding sites of RNA-binding proteins
Hannes Ruwe (Berlin), T10
- 10:15-10:40 Functions and targets of abundant chloroplast RNA-binding proteins
Marlene Teubner (Berlin), T11
- 10:40-11:15 *Coffee break*

Session 4.1: Membrane biogenesis (chair: T. Pfannschmidt)

- Posters: [Walter \(P12\)](#), [Lohscheider \(P13\)](#), [Huber \(P14\)](#)
- 11:15-11:40 On the cytological organization of photosystem II biogenesis in *Chlamydomonas*
William Zerges (Montreal), T12
- 11:40-12:05 Reciprocal regulation of protein and carbon metabolism for thylakoid membrane biogenesis
Alexandra Bohne (Munich), T13
- 12:05-12:30 Thylakoid Membrane Biogenesis in Cyanobacteria
Birgit Rengstl (Munich), T14
- 12:30-13:30 *Lunch break*
- 13:30-15:00 Poster session

Session 4.2: Membrane biogenesis (chair: K. Meierhoff)

- 15:00-15:25 The Photosystem II repair cycle in cyanobacteria and chloroplasts
Josef Komenda (Trebno), T15
- 15:25- 15:50 Fine-tuning State Transitions - Mechanisms modulating LHCII phosphorylation
Matthias Pribil (Munich), T16
- 15:50-16:15 Vipp1 - the jack of all trades in chloroplasts?
Stephanie Otters (Munich), T17
- 16:15-16:40 *Arabidopsis thaliana* Oxa proteins locate to mitochondria and fulfill an essential role during embryo development
Elisabeth Ankele (Munich), T18
- 16:40-17:10 *Coffee break*

Session 5: Physiology (chair: P. Geigenberger)

- 17:10-17:35 Reactive oxygen species generation and scavenging
Ralf Oelmüller (Jena), T19
- 17:35-18:00 Redoxregulation of plastidial starch synthesis in response to external signals in *Arabidopsis thaliana*
Ina Thormählen (Munich), T20
- 18:00-18:25 Exploring the role of lysine acetylation in the regulation of plant metabolism
Markus Hartl (Munich), T21
- 19:00 *Bavarian dinner in the restaurant „Erdinger Weißbräu“*

Wednesday, October 10

Session 6: Transport (chair: S. Schwenkert)

- Posters: Schweiger ([P15](#)), Schwenkert ([P16](#))
- 09:00- 09:25 The carrier PAPST1 connects plastidial and cytosolic sulfate metabolism
Ilka Haferkamp (Kaiserslautern), T22
- 09:25-09:50 Evolutionary diversity of beta-barrel proteins involved in protein translocation
Maik Sommer (Frankfurt/Main), T23
- 09:50-10:15 Cytosolic factors involved in preprotein targeting to plant organelles
Christine Fellerer (Munich), T24
- 10:15- 10:40 EF-hand independent Ca²⁺ regulation of chloroplast function
Norbert Mehler (Munich), T25
- 10:40-11:30 *Coffee break*
- 11:30- ca. 12:00 **Talk/Poster Awards (Sitte and Eppendorf prizes), Closing remarks**



Postdoc-Preis 2012

Participants

	Name	Institute/Email	Titel	Session
1	Ankele, Elisabeth	Ludwig-Maximilians-Universität; München; elis.ankele@lrz.uni-muenchen.de	<i>Arabidopsis thaliana</i> Oxa proteins locate to mitochondria and fulfill an essential role during embryo development	4, T18
2	Bohne, Alexandra	Ludwig-Maximilians-Universität; München; Alexandra.Bohne@lmu.de	Reciprocal regulation of protein and carbon metabolism for thylakoid membrane biogenesis	4, T13
3	Bolte, Kathrin	Zellbiologie, Philipps-Universität Marburg; Kathrin.bolte@staff.uni-marburg.de	Insights into peroxisomes of diatoms	1, T4
4	Börner, Thomas	Humboldt-Universität Berlin; thomas.boerner@rz.hu-berlin.de	Do mature chloroplasts contain DNA?	2, T5
5	Christa, Gregor	Zoologisches Forschungsmuseum Alexander Koenig, Bonn, gchrista@uni-bonn.de		
6	Császár, Eszter	Molekulare Botanik, Universität Ulm; esztercsaszar1985@gmail.com	Mapping the binding site between MEF and MORF RNA editing factors	3, P11
7	Fellerer, Christine	Ludwig-Maximilians-Universität München; christine.fellerer@biologie.uni-muenchen.de	Cytosolic factors involved in preprotein targeting to plant organelles	6, T24
8	Finkemeier, Iris	Ludwig-Maximilians-Universität München; i.finkemeier@lmu.de		
9	Finster, Sabrina	Humboldt-Universität Berlin; sabrina.finster@web.de	Tagging of the plastid-encoded RNA polymerase to identify target nucleic acids	3, P8
10	Geigenberger, Peter	Ludwig-Maximilians-Universität München; geigenberger@biologie.uni-muenchen.de		
11	Greiner, Stephan	MPI für molekulare Pflanzenphysiologie, Golm; greiner@mpimp-golm.mpg.de		
12	Grosche, Christopher	Philipps-Universität, Marburg; cgrosche@biologie.uni-marburg.de	Plastid protein import into complex plastids of peridinin-containing dinoflagellates	1, P1
13	Gügel, Irene	Ludwig-Maximilians-Universität München; guegel@lrz.uni-muenchen.de		
14	Haarmann, Raimund	Philipps-Universität, Marburg; haarmann@biologie.uni-marburg.de		
15	Haferkamp, Ilka	TU Kaiserslautern; haferk@rhrk.uni-kl.de	The carrier PAPST1 connects plastidial and cytosolic sulfate metabolism	6, T22
16	Härtel, Barbara	Universität Ulm; barbara.haertel@uni-ulm.de,	MEFs & MORFs: two types of RNA editing factors	3, P9
17	Hartl, Markus	Ludwig-Maximilians-Universität München; markus.hartl@biologie.uni-muenchen.de	Exploring the role of lysine acetylation in the regulation of plant metabolism	5, T21
18	Huber, Catharina	Universität Konstanz; catharina.huber@uni-konstanz.de	DEG10 protease in <i>Arabidopsis thaliana</i>	4, P14
19	Kleinknecht, Laura	Ludwig-Maximilians-Universität; München Laura_s_k@hotmail.com	AtRAP, the single OPR protein from <i>Arabidopsis thaliana</i>	3, P7
20	Komenda, Josef	Akademie der Wissenschaften, Trebon/Tschechische Republik; Komenda@alga.cz	The Photosystem II repair cycle in cyanobacteria and chloroplasts	4, T15

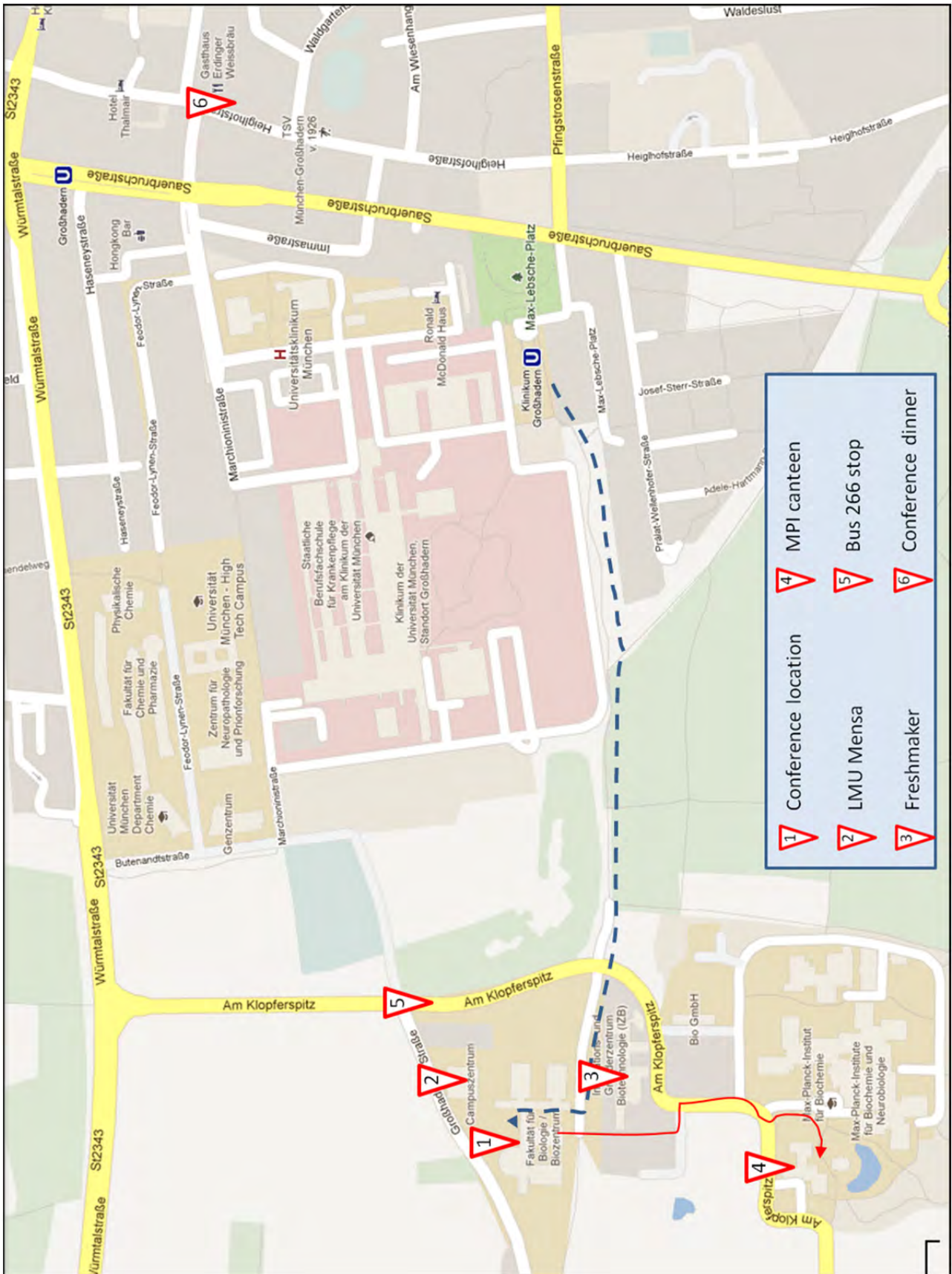
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21	Kroth, Peter	Fachbereich Biologie, Universität Konstanz; Peter.Kroth@uni-konstanz.de	Metabolic reallocations in diatoms	1, T2
22	Lau, Julia	Philipps-Universität, Marburg; julia.lau@biologie.uni-marburg.de	New insights into the SELMA system of complex plastids	1, P2
23	Lohscheider, Jens	Universität Konstanz; jens.lohscheider@uni-konstanz.de	The role of PAP/Fibrillin proteins in stress tolerance.	4, P13
24	Maier, Uwe	Zellbiologie, Philipps-Universität Marburg; maier@staff.uni-marburg.de	Diatoms as bioreactors	1, T1
25	Massouh, Amid	MPI für molekulare Pflanzenphysiologie, Golm; massouh@mpimp-golm.mpg.de	Characterization of the Oenothera plastome mutant collection	2, P4
26	Mehlmer, Norbert	Ludwig-Maximilians-Universität München AG Vothknecht, München; norbert.mehlmer@biologie.uni-muenchen.de	EF-hand independent Ca ²⁺ regulation of chloroplast function	6, T25
27	Meierhoff, Karin	Institut für Entwicklungs- und Molekularbiologie der Pflanzen, Düsseldorf; Karin.Meierhoff@uni-duesseldorf.de		
28	Nickelsen, Jörg	Ludwig-Maximilians-Universität München; joerg.nickelsen@lrz.uni-muenchen.de		
29	Oelmüller, Ralf	Friedrich-Schiller-Universität Jena; b7oera@hotmail.de	Reactive oxygen species generation and scavenging	5, T19
30	Otters, Stephanie	Ludwig-Maximilians-Universität München stephanie.otters@googlemail.com	Vipp1 - the jack of all trades in chloroplasts?	4, T17
31	Pellizzer, Tommaso	MPI für molekulare Pflanzenphysiologie, Golm; Pellizzer@mpimp-golm.mpg.de	Genome-plastome incompatibility in the genus Oenothera (evening primrose)	2, P3
32	Pfannschmidt, Thomas	Friedrich-Schiller-Universität Jena; Thomas.Pfannschmidt@uni-jena.de		
33	Pribil, Matthias	Ludwig-Maximilians-Universität; pribil@lrz.uni-muenchen.de	Fine-tuning State Transitions - Mechanisms modulating LHClI phosphorylation	4, T16
34	Qu, Yujiao	Humboldt-Universität Berlin; quyujiao0112@yahoo.cn	MatK RNA binding sites identified by RIP-Seq	3, P5
35	Rengstl, Birgit	Ludwig-Maximilians-Universität; München brengstl@aol.com	Thylakoid Membrane Biogenesis in Cyanobacteria	4, T14
36	Ruwe, Hannes	Humboldt-Universität Berlin hannes.ruwe@hu-berlin.de	Small RNAs in Chloroplasts and Mitochondria, binding sites of RNA-binding proteins	3, T10, P6
37	Scharff, Lars	MPI für molekulare Pflanzenphysiologie, Potsdam; scharff@mpimp-golm.mpg.de	Reductive plastid genome development: a comparison of tobacco and parasitic species	2, T6
38	Schweiger, Regina	Ludwig-Maximilians-Universität München; Regina.Schweiger@biologie.uni-muenchen.de	TPR7 is a chaperone docking protein of the Sec translocon in Arabidopsis	6, P15
39	Schwenkert, Serena	Ludwig-Maximilians-Universität München; serena.schwenkert@lmu.de	Cytosolic Chaperone Function in Chloroplast Preprotein Targeting	6, P16
40	Soll, Jürgen	Ludwig-Maximilians-Universität München; soll@uni-muenchen.de		
41	Sommer, Maik	Goethe-Universität Frankfurt/Main; schleiff@bio.uni-frankfurt.de	Evolutionary diversity of beta-barrel proteins involved in protein translocation	6, T23
42	Steiner, Jürgen	Martin-Luther-Universität, Halle-Wittenberg;		

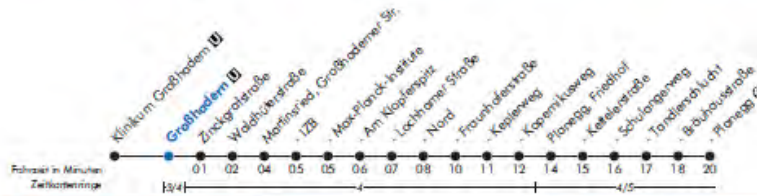
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		juergen.steiner@pflanzenphys.uni-halle.de		
43	Stork, Simone	Philipps-Universität, Marburg; simone.stork@biologie.uni-marburg.de	How do plastid membrane proteins cross the Sec61 translocon in the outermost membrane of diatom complex plastids?	1, T3
44	Takenaka, Mizuki	Universität Ulm; mizuki.takenaka@uni-ulm.de	MORF proteins are involved in RNA editing in plant mitochondria and plastids	3, T9
45	Teubner, Marlene	Humboldt-Universität Berlin; marlene.teubner@gmx.de	Functions and targets of abundant chloroplast RNA-binding proteins	3, T11
46	Thormählen, Ina	Ludwig-Maximilians-Universität München; thormaehlen@biologie.uni-muenchen.de	Redoxregulation of plastidial starch synthesis in response to external signals in <i>Arabidopsis thaliana</i>	5, T20
47	Tillich, Michael	MPI für molekulare Pflanzenphysiologie, Potsdam; mpt@mpimp-golm.mpg.de	Chloroplast RNA editing: tobacco reloaded	3, T8
48	Vothknecht, Ute	Ludwig-Maximilians-Universität München; vothknecht@lrz.uni-muenchen.de		
49	Walter, Björn	Ruhr-Universität Bochum; Bjoern.Walter@rub.de	Involvement of cotranslational cpSRP-dependent protein transport in the Photosystem II repair cycle	4, P12
50	Wright, Mitchel	Ludwig-Maximilians-Universität München; mitchel_wright@yahoo.com	Preprotein phosphorylation during chloroplast import	
51	Zehrmann, Anja	Molekulare Botanik, Ulm; Anja.Zehrmann@uni-ulm.de	Interactions between various editing factors	3, P10
52	Zerges, William	Concordia University Montreal/Canada zerges@alcor.concordia.ca	On the cytological organization of photosystem II biogenesis in <i>Chlamydomonas</i>	4, T12
53	Zupok, Arkadiusz Sebastian	MPI für molekulare Pflanzenphysiologie, Golm; zupok@mpimp-golm.mpg.de	Plastid mediated speciation barriers in the Evening Primerose (<i>Oenothera</i>)	2, T7
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MAP OF THE AREA

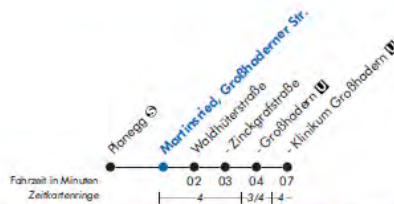


Großhadern 



Uhr	Montag - Freitag	Samstag	Sonn- und Feiertag	Uhr
5	40			5
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Martinsried, Großhaderner Str.



Uhr	Montag - Freitag	Samstag	Sonn- und Feiertag	Uhr
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6	31 51	31		6
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Organizers:

Peter Kroth (University of Konstanz)

Jörg Nickelsen (Ludwig-Maximilians-University Munich)

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CORE, Centre of Organellar Research

Ludwig-Maximilians-University

SFB TR1

DBG, German Botanical Society

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