

KPC Workshop

Plant Evolution – chances and challenges in a changing environment

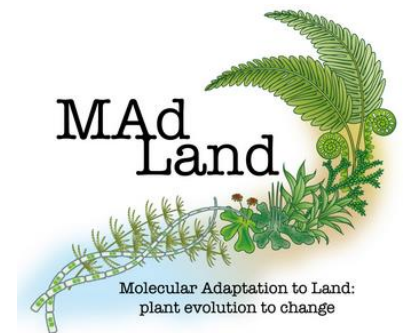
Kiel University
6 - 7 July 2023

www.plant-center.uni-kiel.de/en/events/kpc-workshop-2023

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Christian-Albrechts-Universität zu Kiel

KIEL
PLANT
CENTER



German
Society for
Plant Sciences



Scientific Organisers (Kiel University):

Birgit Classen, Pharmaceutical Biology
Kim-Kristine Mueller, Pharmaceutical Biology

Lukas Pfeifer, Pharmaceutical Biology
Eva Stukenbrock, Botanical Institute

Program – Timetable

Thursday, 06.07.2023

- 9:30 Welcome by Birgit Classen and Eva Stukenbrock
- 9:45 Introduction to DFG priority program MAdLand by *Susann Wicke*
- 9:55 MAdLand Film
- 10:00 Keynote 1 – *Susann Wicke*
- 10:45 Coffee and tea
- 11:00 Keynote 2 – *Peter Ulvskov*
- 11:45 Keynote 3 – *Jesper Harholt*
- 12:30 Lunch time (Mensa)
- 13:30 First short talk session
- S01 – *Klaus Herburger*
 - S02 – *Jaccoline Zegers*
 - S03 – *Cäcilia Kunz*
 - S04 – *Francisco Gordillo*
- 14:30 Keynote 4 – *Sophie de Vries*
- 15:15 Introduction to MAdLand posters by *Mona Schreiber* (online)
- 15:35 MAdLand poster session with coffee and tea
- 16:15 Keynote 5 – *Mona Schreiber* (online)
- 17:00 Second short talk session
- S05 – *Berit Ebert*
 - S06 – *Kim-Kristine Mueller*
 - S07 – *Lukas Pfeifer*
- 18:00 Get together in the greenhouse with finger food
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Program – Timetable

Friday, 07.07.2023

9:30	Welcome
9:45	Keynote 6 – <i>Cécile Herve</i>
10:30	Keynote 7 – <i>Thorsten Reusch</i>
11:15	Coffee and tea, group photo
11:45	Keynote 8 – <i>Christian Jung</i>
12:30	Scientific poster session with short presentations
13:15	Lunch time (Mensa)
14:15	Third short talk session
	S08 – <i>Katharina Schiller</i>
	S09 – <i>Christine Kuehn</i>
	S10 – <i>Nazgol Emrani</i>
	S11 – <i>Alison Scott</i>
15:15	Final discussion with coffee and tea, goodbye
16:00	Visit of the botanical garden

Reminder:

Keynote Talk: 30 min + 15 min discussion

Short Talk: 12 min + 3 min discussion

Program – Keynote lectures

Keynotes:

K01: Susann Wicke

Institute for Biology – Humboldt University of Berlin

"Non-canonical plastid (genome) evolution in land plants"

K02: Peter Ulvskov

Department of Plant and Environmental Sciences – University of Copenhagen

"The legacy of terrestrial plant evolution on cell wall fine structure"

K03: Jesper Harholt

Carlsberg Research Laboratory – Copenhagen

"The Plant cell wall, past is present"

K04: Sophie de Vries

Institute for Microbiology and Genetics – University of Göttingen

"Integration of defense responses into the evolution of a perpetual symbiosis"

K05: Mona Schreiber

Plant Cell Biology – University of Marburg

"The greening ashore: the transformative impact of life, plastids, plants and people."

K06: Cécile Herve

Marine Plants and Biomolecules – Station Biologique de Roscoff

"Extracellular matrices from brown algae"

K07: Thorsten Reusch

GEOMAR Helmholtz Centre for Ocean Research Kiel

"From land to sea: uncovering mechanisms of genome evolution, adaptation and colonization of seagrasses"

K08: Christian Jung

Plant Breeding Institute – Kiel University

"Crop plant evolution and plant breeding – two sides of the same medal"

Program – Short lectures

Short Talks:

S01: Klaus Herburger

Institute of Biological Sciences – University of Rostock

“Recruitment of external hemicelluloses into the cell walls of land-conquering Zygnematophyceae”

S02: Jaccoline Zegers

Institute for Microbiology and Genetics – University of Göttingen

“Insights from *Mesotaenium endlicherianum* in the terrestrial plant evolution of drought response”

S03: Cäcilia Kunz

Institute for Microbiology and Genetics – University of Göttingen

“Investigating phenolics in response to UV exposure in the Zygnematophycean alga *Mesotaenium endlicherianum*”

S04: Francisco Gordillo

Center for Plant Molecular Biology – University of Tübingen

“Evolution of SERK-mediated specificity in plant development and immunity”

S05: Berit Ebert

Molecular evolution of plants – Ruhr University of Bochum

“*Marchantia polymorpha* – a novel model to explore plant cell wall biosynthesis”

S06: Kim-Kristine Mueller

Pharmaceutical Institute – Kiel University

“Structural investigations of fern cell walls give further insights into evolution of arabinogalactan-proteins”

S07: Lukas Pfeifer

Pharmaceutical Institute –Kiel University

“Search for arabinogalactan-proteins in charophyte green algae”

Program – Short lectures

Short Talks:

S08: Katharina Schiller
Computational Biology – Bielefeld University
“Regulation of Crassulacean Acid Metabolism on the Protein Level”

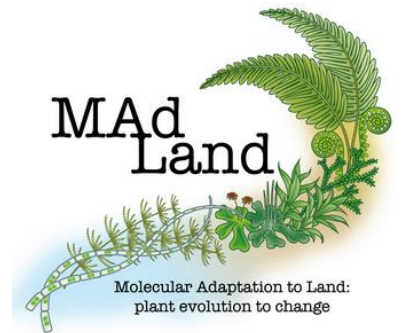
S09: Christine Kuehn
Institute of Biological Sciences – University of Rostock
"Impact of plastidial MALTOSE EXPORTER 1 on HL induced anthocyanin accumulation"

S10: Nazgol Emrani
Plant Breeding Institute – Kiel University
"Breeding quinoa for Northern Europe: molecular tools applied to an orphan crop"

S11: Alison Scott
Max Planck Institute for Plant Breeding Research – Cologne
“Genomics of adaptation to tetraploidy in Siberian *Arabidopsis lyrata*”

MAdLand – Poster Titles

- M01: History of Earth
- M02: Life
- M03: Photosynthesis
- M04: Symbiosis
- M05: From Water to Land
- M06: Bryophytes
- M07: Hornworts
- M08: *Marchantia*
- M09: *Physcomitrium*
- M10: Ferns
- M11: Seed Plants
- M12: Geo-botanic
- M13: Sex in Plants
- M14: Biomass
- M15: Crops
- M16: Climate Change
- M17: Gene Bank
- M18: Women of Botany
- M19: Humboldt



Scientific – Poster Titles

P01: Marina Khachatryan

Institute of Microbiology – Kiel University

“Evolution of plant organelles is characterized by similar substitution rate but different allele dynamics”

P02: Tadhg O Corcora

GEOMAR Helmholtz Centre for Ocean Research Kiel

“Evaluating ecosystem service return following seagrass, *Zostera marina*, restoration in the German Baltic Sea”

P03: Jule Wirries

GEOMAR Helmholtz Centre for Ocean Research Kiel

“The seagrass *Zostera marina* takes a deep breath when exposed to a heat wave”

P05: Jana Willim

GEOMAR Helmholtz Centre for Ocean Research Kiel:

“Sustainable restoration of seagrass meadows through “Assisted Evolution” approaches”

P06: Angela Stevenson (Presenter: Tadhg O Corcora)

“GEOMAR Helmholtz Centre for Ocean Research Kiel

Seagrass canopies lower *Vibrio* & this ecosystem function is immediately renewed via restoration”

P07: Birgit Classen

Pharmaceutical Institute – Kiel University

“Sugar and salt: How seagrass cell walls adapted to the marine habitat”

P08: Lukas Pfeifer

Pharmaceutical Institute – Kiel University

“AGP protein backbones seem to have evolved prior to characteristic glycosylation patterns”

P09: Kim-Kristine Mueller

Pharmaceutical Institute – Kiel University

“Evolution of the plant cell wall: Arabinogalactan-proteins from lycophytes show structural differences compared to those of ferns”

P10: Yao Chen

Institute of Phytopathology – Kiel University

“How do tomato respond to stress”

Scientific – Poster Titles

P11: Lisa Mazeas (Presenter: Cécile Herve)

Marine Plants and Biomolecules – Station Biologique de Roscoff

“Evolutive histories of polysaccharides from the extracellular matrix of brown algae”

P12: Helen Gorges

Institute of Zoology and Museum – Kiel University

“Mechanical and adhesive properties of mucilaginous coat in seeds of *Ocimum basilicum* (Lamiaceae)”

Further Information

Talks and Poster:

Please save your talk presentation on an USB stick (no own laptop) and give it to us at least 15 minutes before the “Welcome” starts, so we have time to load this onto the room's computer.

Scientific posters can be mounted before the first session on Friday morning (9:00 - 9:15).

Lunch during the workshop:

Vouchers for the university cafeteria will be made available for workshop participants. Each voucher includes one main dish (no special offer dish), a side dish, a small dessert, and a 0.5 L water bottle. It can be used in the upper area of the Mensa II a short walk from the conference venue. The vouchers will be available for collection in the coffee break before lunch on each day.

Group photo:

We will take a group photo during the morning coffee break on Friday. By participating, you confirm that you consent to the publication of the photo via web and social media channels.

Confirmation of participation:

Please write us a separate email if a confirmation of participation is needed (kielplantcenter@bot.uni-kiel.de).

Venue:

ZMB (Zentrum Molekulare Biowissenschaften)
Christian-Albrechts-Universität zu Kiel
Am Botanischen Garten 11
24118 Kiel

Hotel recommendation:

GHOTEL hotel & living Kiel
Eckernförder Straße 213 – 215
24119 Kiel
Check-In from 15.00 h, Check-Out until 11.00 h
