Annual meeting and workshop 2021

Herzogenhorn, September 14th - 17th 2021

https://4science.de/madland/

DFG Priority Programme 2237
http://madland.science

Programme committee
Erika Csiscely Munich
Sven Gould Düsseldorf/Marburg
Andreas Hiltbrunner Freiburg
Stefan Rensing Marburg/Freiburg (coordinator)
Susann Wicke Berlin
Sabine Zachgo Osnabrück

Scientific advisory board
Pierre-Marc Delaux Toulouse, France
Liam Dolan Oxford, UK
Jill Harrison Bristol, UK
Eva Sundberg Uppsala, Sweden

Note: All times are Central European Summer Time (CEST)
Zoom sessions are open 10 minutes before start.

Programme

**Tuesday, September 14th**

10:30, 11:30  Bus shuttles from Feldberg-Hebelhof bus station to venue

10:00 – 13:00  Registration open

12:00  Lunch

Session 1; Chair: Sven Gould

13:00 – 14:10  Workshop 1: The MAdLand RNA-seq pipeline (Fabian Haas, Marburg)

14:15  Workshop 2: NFDI4PLANTS (Timo Mühlhaus, Kaiserslautern) - DataPLANT - Provider of Tools and Services to structure the Data Jungle for Fundamental Plant Researchers

15:00  Coffee break / Poster session

15:30  Welcome remarks (Stefan Rensing)

15:45 – 18:00  MAdLand project presentations, 12+3 min

15:45  Talk 1: Henrik Buschmann (Mittweida) - On complexity, stasis and reductive evolution

16:00  Talk 2: Alex MacLeod (Gould, Düsseldorf) - The Plastid Biology of the Ancestral Embryophyte
Talk 3: Svenja Nötzold (Berlin, Wicke/Szővényi/Hippler) - Plastid Biology of Hornworts

Talk 4: Stephanie Ruau (Zurich, Szövényi/Wicke/Hippler) - Pyrenoid formation in hornworts: genomic hints for green algal-like pyrenoid scaffolding mechanisms

16:45

fresh air break

Talk 5: Pauline Duminil (Feussner, Göttingen) - Investigating the evolution of sphingolipid synthesis and functions in plants

Talk 6: Yosuke Hoshino (Hallmann, Potsdam) - Drought-modulated plant lipids in biomass and rocks — global Palaeozoic change in sesterterpenoid patterns and possible links to plant diversification

Talk 7: Tim Rieseberg (De Vries, Göttingen) - CarotPhyte: Exploring the evolutionary roots for the biosynthesis of apocarotenoids and their role as signals in plastid-mediated stress response in streptophyte algae

Talk 8: Christoph Schwarze (Petersen, Marburg) - Characterisation of phenylalanine ammonia-lyase from Chara braunii, Physcomitrium patens and Marchantia polymorpha

18:00

Supper

Session 2; Chair: Stefan Rensing

19:00 – 20:45

Invited Talk 1: Welcome lecture: Susana Coelho (Tübingen), 30+15 min
Switching It Up: Algal Insights into Sexual Transitions

#SciComm: Julia Wandt (Freiburg), talk and discussion, 30 + 30 min

Evening

Get together

Wednesday, September 15th

7:30 – 9:00

CoV-Test and Breakfast

Session 3; Chair: Pauline Duminil

9:00 – 9:45

Invited Talk 2: Fred Berger (Vienna), 30+15 min
Epigenetic regulation of life cycle transition in land plants

09:45

Coffee break / Poster session

10:15 – 12:00

Topic introduction by the gender & ethics committee
Movie: Picture a Scientist, 93 min

12:00 – 15:00

Excursion with lunch: Hiking Tour Krunkelbach

15:00

Coffee break / Poster session

Session 4; Chair: Erika Csicsely and Wenke Ludwig

15:30 – 16:45

Workshop 3: Phylogenetic inference - How to infer my own phylogeny? (Mona Schreiber, Stefan Rensing, Marburg)

16:45

Group photo

17:00 – 18:00

Workshop 4: Reconstructing trait evolution in plant evo-devo studies (Pierre-Marc Delaux, Castanet Tolosan; Jan de Vries, Göttingen)

18:00

Supper

19:00

Panel discussion “Picture a Scientist”, particularly including discussion on gender equality and diversity
Moderation: MAdLand coordination team
Panelists: Aniela Knoblich (Gender and Diversity, University of Freiburg)
Anelis Kaiser Trujillo (Gender studies in STEM, University of Freiburg)
Birgit Classen, Pauline Duminil, Henrik Buschmann (MAdLand Gender and Ethics committee)
Thursday, September 16th

7:30 – 9:00  Breakfast

Session 5; Chair: Lukas Pfeifer

9:00 – 10:30  MadLand project presentations, 12+3 min

09:00  Talk 9: Andrea Busch (Zachgo, Osnabrück) - Generation of a comprehensive Marchantia polymorpha-Expression Atlas
09:15  Talk 10: Chiara Tessari (Theißlen/Rümpler, Jena) - MADS life on MadLand: The role of floral quartet-like complexes during the transition of plants to land
09:30  Talk 11: Lanassa Bassukas (Schwechheimer, München) - Evolution of AGC1 kinase-mediated polarity modules in early land plant development
09:45  [ONLINE] Talk 12: Jennifer Scherzer (Becker/Hedrich, Würzburg) - The liverwort Marchantia polymorpha operates a depolarization-activated Slowpoke (SLO) K+ channel that recognises pH changes in the environment
10:00  Talk 13: Erika Csicsely (Frank, Munich) - Comparative analysis of an autoregulatory loop in microRNA biogenesis that is crucial for stress adaption in early land plants
10:15  Talk 14: Daniel Heß (Hess, Freiburg) - Regulatory RNA candidates in Charophycean green algae for governing developmental adaptations and acclimation responses
10:30  [ONLINE] Talk 15: Saiko Yoshida (Tsiantis, Cologne) - TBA
10:45  Coffee break / Poster session

11:15  [ONLINE] Invited Talk 3: Marcel Bucher (Cologne), 30+15 min
Unearthing the plant-microbe quid pro quo in root associations with beneficial fungi

Session 6; Chair: Henrik Buschmann

13:00 – 18:00  MadLand project presentations, 12+3 min

13:00  Talk 16: Katharina Melkonian (Nakagami/Melkonian, Cologne) - TurboID-based proximity labeling for interactome profiling in Marchantia polymorpha
13:15  Talk 17: Lukas Pfeifer (Classen, Kiel) - Search for arabinogalactan-proteins in charophyte green algae
13:30  Talk 18: Stephanie Frohn (Schippers, Gatersleben) - Appearance and role of CuZnSOD proteins during early land plant evolution
13:45  Talk 19: Andreas Hilbrunner (Freiburg) - CRISPR/Cas9-generated phytochrome higher order mutants reveal a highly complex set of light responses in the moss Physcomitrium patens
14:00  Talk 20: Melanie Kreiss (Höcker, Cologne) - Evolution of light signaling: The role of the COP1/SPA complex in Physcomitrium patens
14:15-14:30  fresh air break
14:30  Talk 21: Wenke Ludwig (Quint, Halle) - On the evolution of plant thermomorphogenesis
14:45  Talk 22: Linus Wegner (Ehlers, Gießen) - The evolution of plasmodesmata
15:00  Talk 23: Annika Bischoff (Schümemann, Bochum) - Adaptations of chloroplast protein transport mechanisms during land plant evolution
15:15  Talk 24: Evelyn Vollmeister (Rensing, Marburg) – The importance of the male germline for the alternation of generations
15:30  Coffee break / Poster session

16:00 – 16:30  MadLand and the public (e.g. botanical garden exhibition, #scicomm)
Sven Gould, Sabine Zachgo
16:30 – 17:00  BoGa session continued (volunteers) / Poster session

17:00 – 17:55  Discussions and wrap-up (Stefan Rensing)
Wrap-up, 15 min

[ONLINE] Comments by the Scientific Advisory Board, 15 min
MAAdLand timeline and second funding period

Best talk prizes

Final remarks

18:00 Supper

Evening Farewell event with Silent Disco

Friday, September 17th

7:30 – 9:00 Breakfast

9:00 Shuttle from venue to Feldberg-Hebelhof bus station

Thank you!

The MAAdLand annual meeting 2021 is organized by 4Science e.V. (Freiburg/Marburg, Germany) in the framework of the DFG SPP 2237, as a joint action with the University of Marburg and University of Freiburg; support by The Plant Journal and the companies shown below is gratefully acknowledged.