



Annual meeting 2025

Osnabrück, September 30th – October 2nd 2025

<https://madland-meeting.de>

DFG Priority Programme 2237

<http://madland.science>



DFG Deutsche
Forschungsgemeinschaft

Programme committee

Till Ischebeck	Münster
Andreas Hiltbrunner	Freiburg
Susann Wicke	Münster
Jan de Vries	Göttingen (coordinator 2 st round)
Sabine Zachgo	Osnabrück

Scientific advisory board

Pierre-Marc Delaux	Toulouse, France
Liam Dolan	GMI, Vienna, Austria
Katie Field	Sheffield, UK (2 nd round)
Jill Harrison	Bristol, UK



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#MAdLand2025

Programme

- All talks take place in the Helikonien-Hall
- Coffee breaks are in the Overwintering House
- TAC meetings can be held in the group room
- The Poster sessions take place in the Seminar room
- Lunch and supper take place in the Overwintering House
- Best talk evaluations take place for ● PhDs and ● PostDocs.
- MAdLand members ○
- MAdLand labs marked in green

Tuesday, September 30th

13:00 Registration open

14:30 Welcome reception at Bohnenkamp-Haus (including finger food & drinks)

15:30 Welcome remarks (Sabine Zachgo)

Session 1 (**15:45 – 18:25**)

Session 1; Chair: Sabine Zachgo & Nora Gutsche

15:45 – 16:15 Invited Talk 1: Annette Becker (Giessen), 20+10 min

Innovations, reductions, co-evolution – how land plant sexual reproduction gained independency from water

16:15 – 16:45 Invited Talk 2: Stefanie Sprunck (Regensburg), 20+10 min

Gamete interaction and fusion in the green lineage

Short talk presentations, 12 + 3 min

16:45 ● Talk 1: Deepti Varshney ([Rensing lab](#), Freiburg) – *Inferring the nature of the most recent common ancestor of plants*

17:00 ● Talk 2: Elisa Goldbecker ([de Vries lab](#), Göttingen) – *The Spirogyra genome: recovering conserved and divergent programmes of differentiation and division*

Optional 5-10 min break

17:25 ● Talk 3: Julien Böhm ([Herburger & Schubert lab](#), Rostock) – *Nuclei in Charophyceae show high variability in size, shape and arrangement*

17:40 ● Talk 4: Aniya Azam Rakhi ([Theissen lab](#), Jena) – *Identifying genome-wide DNA-binding sites of charophyte MIKC-type MADS-domain proteins*

17:55 ● Talk 5: Norina Noor ([Frank lab](#), Munich) – *Functional analysis of small RNA pathways in bryophytes*

18:10 ● Talk 6: Julian Vincent Garrecht (Becker lab, Giessen) – *The role of LEUNIG and SEUSS transcriptional regulators during land plant evolution*

18:10 ● Talk 7: Elena Lesch ([Ischebeck lab](#), Münster) – *Unraveling organellar uridine-to-cytidine RNA editing in hornworts*

18:40 Supper

**19:30 – 21:00 Poster session
Optional slot for TAC meetings**

21:00 – 23:00 Get together

Wednesday, October 1st

7:30 – 9:00 Breakfast at hotels

Session 2 (**09:00 – 10:00**)

Session 2; Chair: Christoph Kentrath

Short talk presentations, 12 + 3 min

09:00 Talk 8: Fay-Wei Li (Li lab, Ithaca, US) – *Hornworts as a new model lineage to study the evolution of plant sexual reproduction*

09:15 ● Talk 9: Svenja I. Nötzold ([Wicke lab](#), Münster) – *Nitrogen and carbon fixation in hornwort-cyanobacterial symbiosis under submersion*

09:30 ● Talk 10: Kim-Kristine Mueller ([Classen lab](#), Kiel) – *New insights into bryophyte arabinogalactan-proteins from a hornwort and a moss model organism*

09:45 ● Talk 11: Péter Szövényi ([Szövényi lab](#), Zurich) – *Tools for CRISPR-Cas9-based genome editing in the model hornwort Anthoceros agrestis*

10:00 Coffee break

Session 3 (10:30 – 12:00)

Session 3; Chair: Cäcilia Kunz (MAdLand EDI-Committee)

10:30 – 12:00 **Workshop: Power abuse in science** (Be COSMOPOLITE, Diversity Management Agentur, Ottobrunn, Germany) 90 min

12:00 Lunch

Session 4 (13:00 – 15:05)

Session 4; Chair: Katrin Philippar

Short talk presentations, 12 + 3 min

13:00 ● **Talk 12:** Gabriel X. Garcia-Ramirez (**Nakagami lab**, Cologne) – *Exploring Salicylic Acid Perception and Response in Bryophytes and Streptophyte Algae*

13:15 ● **Talk 13:** Pradeep Dahiya (**Bürstenbinder lab**, Marburg) – *Functional characterization of IQD proteins in Marchantia polymorpha*

13:30 ● **Talk 14:** Cilian Kock (**Zachgo lab**, Osnabrück) – *Redox buffering and H₂O₂ orchestrate the vegetative development of Marchantia polymorpha*

13:45 ● **Talk 15:** Mina Kazemianrouhi (**Reumann lab**, Hamburg) – *Investigating the assembly of peroxisome functions during plant terrestrialization (PeroxEvo)*

Optional 5 min break

14:05 ● **Talk 16:** Christoph Kentrath (**Petersen lab**, Marburg) – *Can cytochrome P450 enzymes swim? Challenging the assumption that cinnamic acid 4-hydroxylase (C4H) activity first emerged after terrestrialization*

14:20 ● **Talk 17:** Matthias Freh (**Panstruga lab**, Aachen) – *Co-evolution and molecular adaptation of the MLO-EXO70 functional module in the course of plant terrestrialization*

14:35 ● **Talk 18:** Maria Dolores Lopez Bueno (**Denninger lab**, Munich) – *Evolution of novel RHO OF PLANTS signalling activators during the adaptation from water to land*

14:50 ● **Talk 19:** Carolin Apel (**Naumann/Abel lab**, Halle) – *TERRAPHOS: Exploring the Evolution of Phosphate Scouting during Plant Terrestrialization*

15:05 Coffee break

Session 5 (15:30 – 17:40)

Session 5; Chair: Jan de Vries

15:30 – 16:00 **Invited Talk 3:** Assaf Mosquna (**Jerusalem, Israel**), 20+10 min
Evolution of Absciscic Acid Signaling and Synthesis

16:00 – 16:30 **Invited Talk 4:** Lenka Caisová (**České Budějovice, Czech Republic**), 20+10 min
Draparnaldia – the new multicellular model in green algae

16:30 – 17:00 **Invited Talk 5:** Noe Fernandez-Pozo (**Malaga, Spain**), 20+10 min
MAdLandExpression: a gene expression atlas for MAdLand species

17:00 – 17:30 **Invited Talk 6:** Saskia Hiltmann, Deepti Varshney (**Rensing lab, Freiburg**), 20+10 min
DataPLANT ARCs: Towards FAIR Data Publications,
MAdLand and Galaxy: Computational tools and resources for plant research

17:40 – 19:00 **Group photo in front of the Bohnenkamp-Haus**
Botanical garden tours

19:15 Conference dinner

21:00 – 24:00 Disco & Get together

Thursday, October 2nd

7:30 – 9:00 Breakfast at hotels

Session 6 (09:00 – 10:15)

Session 6; Chair: Henrik Buschmann

Short talk presentations, 12 + 3 min

- 09:00 ● Talk 20: Tim Ruder (Pfannschmidt lab, Hannover) – *Evolution of the Plastid Transcription Machinery as a Key Adaptation to Plant Terrestrialization*
- 09:15 ● Talk 21: Chiara Kuhlmann (Schünemann lab, Bochum) – *Adaptations of chloroplast protein transport mechanisms during land plant evolution*
- 09:30 ● Talk 22: Niels van de Haar (Höcker lab, Cologne) – *Molecular adaptations to light during the water-to-land transition using the moss Physcomitrium patens and charophyte algae*
- 09:45 ● Talk 23: Alisha Alisha (Hiltbrunner lab, Freiburg) – *Functional analysis of PHYTOCHROME INTERACTING FACTORS and their potential roles in light and cytokinin signaling*
- 10:00 ● Talk 24: Muhammad Zahin Bin Mohd Ali (de Vries lab, Göttingen) – *Phytochrome mediated light signalling of Physcomitrium patens*
- 10:15 Coffee break

Session 7 (10:45 – 12:15)

Session 7; Chair: Danja Schünemann

Short talk presentations, 12 + 3 min

- 10:45 ● Talk 25: Hannah L. Lepper (Fichtner lab, Düsseldorf) – *The enigmatic role of trehalose 6-phosphate during land plant evolution*
- 11: 00 ● Talk 26: Barış Ballık (Herburger lab, Rostock) – *Tracing Cell Wall Polysaccharide Footprints during Desiccation in Zygnematophyceae and Marchantia*
- 11:15 ● Talk 27: Shreya Kalan (Buschmann lab, Mittweida) – *How has cell division evolved from water to land?*
- 11:30 ● Talk 28: Elena Sturm (Bucher & Becker lab, Cologne) – *The Role of Phosphate Starvation Response and Arbuscular Mycorrhizal Symbiosis in Plant Terrestrialization*
- 11:45 ● Talk 29: Gisela Jinhana Hartmann (Schuller lab, Marburg) – *Cryo-Electron Tomography: Revealing the native cellular organization of streptophyte algae*
- 12:00 ● Talk 30: Lea Marie Preuß (Ischebeck lab, Münster) – *Evolution of lipid droplet-associated proteins and their role in drought resistance*
- 12:15 ○ Talk 31: Katrin Philippar (Philippar lab, Saarbrücken) – *Evolution of the plastid FAX (fatty acid export) proteins and the plants' conquest of land*
- 12:30 Lunch
- 13:30** **Wrap-up (Jan de Vries)**
Best talk & poster prizes
Final remarks, MADLand Annual Meeting 2026 in Göttingen
- 14:00 – 14:45** **Additional botanical garden tour**

Thank you!

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