

Annual meeting and workshop 2021

Herzogenhorn, September 14th - 17th 2021 https://4science.de/madland/

DFG Priority Programme 2237 http://madland.science



Munich Düsseldorf/Marburg Freiburg Marburg/Freiburg (coordinator) Berlin Osnabrück

Scientific advisory board Pierre-Marc Delaux Liam Dolan Jill Harrison Eva Sundberg

Toulouse, France Oxford, UK

#MAdLand2021

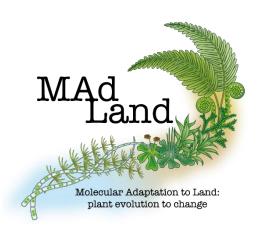
will be recorded

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
	<u>Talk 1:</u> Henrik Buschmann (Mittweida) - <i>On complexity, stasis and reductive evolution</i> Talk 2: Alex MacLeod (Gould, Düsseldorf) - <i>The Plastid Biology of the Ancestral Embryophyte</i>





Bristol, UK Uppsala, Sweden

16:15	Talk 3: Svenja Nötzold (Berlin, Wicke/Szövényi/Hippler) - Plastid Biology of Hornworts		
16:30	<u>Talk 4:</u> Stephanie Ruaud (Zurich, Szövényi/Wicke/Hippler) - Pyrenoid formation in hornworts genomic hints for green algal-like pyrenoid scaffolding mechanisms		
16:45	fresh air break		
17:00	<u>Talk 5:</u> Pauline Duminil (Feussner, Göttingen) - <i>Investigating the evolution of sphingolipid</i> synthesis and functions in plants		
17:15	<u>Talk 6:</u> Yosuke Hoshino (Hallmann, Potsdam) - Drought-modulated plant lipids in biomass and rocks — global Palaeozoic change in sesterterpenoid patterns and possible links to plant diversification		
17:30	• <u>Talk 7:</u> 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		
17:45	<u>Talk 8:</u> Christoph Schwarze (Petersen, Marburg) - <i>Characterisation of phenylalanine ammonia-</i> 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	
<i>12:00</i> – 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	• <u>Workshop 3:</u> Phylogenetic inference - How to infer my own phylogeny? (Mona Schreiber, Stefan Rensing, Marburg)	
16:45	Group photo	
17:00 - 18:00	<u>Workshop 4:</u> Reconstructing trait evolution in plant evo-devo studies (Pierre-Marc Delaux, Castanet Tolosan; Jan de Vries, Göttingen)	
18:00	Supper	
19:00	<u>Panel discussion</u> "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; Chai	ir:	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	•	<u>Talk 10:</u> Chiara Tessari (Theißen/Rümpler, Jena) - MADS life on MAdLand: The role of floral quartet-like complexes during the transition of plants to land
09:30		<u>Talk 11:</u> Lanassa Bassukas (Schwechheimer, München) - Evolution of AGC1 kinase-mediated polarity modules in early land plant development
09:45	[ONLINE]	<u>Talk 12:</u> 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	•	<u>Talk 13:</u> 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	•	<u>Talk 14:</u> Daniel Heß (Hess, Freiburg) - <i>Regulatory RNA candidates in Charophycean green algae for governing developmental adaptations and acclimation responses</i>
10:30	[ONLINE]	Talk 15: Saiko Yoshida (Tsiantis, Cologne) - TBA
10:45		Coffee break / Poster session
11:15	[ONLINE]	<u>Invited Talk 3</u> : Marcel Bucher (Cologne), 30+15 min Unearthing the plant-microbe quid pro quo in root associations with beneficial fungi
12:00		lunch
Session 6; Chai	ir:	Henrik Buschmann
13:00 - 18:00)	MAdLand project presentations, 12+3 min
13:00		<u>Talk 16:</u> Katharina Melkonian (Nakagami/Melkonian, Cologne) - <i>TurboID-based proximity</i> labeling for interactome profiling in Marchantia polymorpha
13:15		<u>Talk 17:</u> Lukas Pfeifer (Classen, Kiel) - <i>Search for arabinogalactan-proteins in charophyte green algae</i>
13:30	•	<u>Talk 18:</u> Stephanie Frohn (Schippers, Gatersleben) - <i>Appearance and role of CuZnSOD</i> proteins during early land plant evolution
13:45		<u>Talk 19:</u> Andreas Hiltbrunner (Freiburg) - <i>CRISPR/Cas9-generated phytochrome higher</i> order mutants reveal a highly complex set of light responses in the moss Physcomitrium patens
14:00	•	<u>Talk 20:</u> Melanie Kreiss (Höcker, Cologne) - <i>Evolution of light signaling: The role of the COP1/SPA complex in Physcomitrium patens</i>
14:15-14:30		fresh air break
14:30 14:45 15:00 15:15	•	<u>Talk 21:</u> Wenke Ludwig (Quint, Halle) - <i>On the evolution of plant thermomorphogenesis</i> <u>Talk 22:</u> Linus Wegner (Ehlers, Gießen) - <i>The evolution of plasmodesmata</i> <u>Talk 23:</u> Annika Bischoff (Schünemann, Bochum) - <i>Adaptations of chloroplast protein</i> <i>transport mechanisms during land plant evolution</i> <u>Talk 24:</u> Evelyn Vollmeister (Rensing, Marburg) – <i>The importance of the male germline for</i>
13.15		the alternation of generations
15:30		Coffee break / Poster session
16:00 - 16:30 M		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	5	Discussions and wrap-up (Stefan Rensing)
		Wrap-up, 15 min

[ONLINE] Comments by the Scientific Advisory Board, 15 min

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

Thank you!

The MAdLand 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.

