Programme of the DGfM Conference, October 4-7, 2021

Monday, 4th October

8:30 - 8:45 Welcome address Marc Stadler, Meike Piepenbring, Marco Thines

8:45 - 9:20 Cathie Aime/Purdue (USA)

The role of animals in two unique dispersal-limited neotropical fungi

Chair: Marco Thines

9:20 - 10:05 Priscila Chaverri/San José (Costa Rica) & Maryland (USA)

From fungal systematics to omics in the discovery of biocontrol agents in

Trichoderma

Chair: Marco Thines

10:05 - 10:35 Coffee break

10:35 - 12:00 Symposium: Neomycetes

Chair: Markus Scholler

Speakers

10:35 Markus Scholler/Karlsruhe (G)

What are neomycetes and how to identify them?

10:55 Marcin Pietras/Kórnik (Poland)

Biogeography of potentially invasive boletes in Europe

11:15 Ludwig Beenken/Zürich (Switzerland)

Outline of neomycetes in Switzerland

11:35 Michael Bradshaw/Harvard (USA)

Reconstructing the worldwide epidemic spread of powdery mildews by sequencing herbarium specimens

12:00 - 13:00 Lunch break

13:00 - 15:00 Symposium: Medical Mycology

Chairs: Sybren de Hoog, Oliver Kurzai

Speakers

13:00 Oliver Kurzai/Würzburg, Jena (G)

Fungal infections as a One Health challenge

13:30 Sybren de Hoog/Nijmegen (NL)

From ant to human - The miraculous evolution of black yeasts

14:00 Adela Čmoková/Prague (CZ)

Zoophilic dermatophytes associated with pet animals

14:30 Grit Walther/Jena (G)

New insights into the evolution of the Mucorales

In parallel Kickoff meeting EU project Mycobiomics (non-public)

15:00 - 15:30 Coffee break

15:30 - 18:00 Special Interest: Group EU project "Mycobiomics"

Chairs: Theresia Stradal, Marc Stadler

Speakers

15:30 Cobus Visagie/Pretoria (South Africa)

Exploring fungal diversity in South Africa, a biodiversity hotspot

16:00 Christopher Lambert/HZI Braunschweig (G)

Progress on the structure activity relationship of cytochalasins isolated from Xylariales impairing eukaryotic actin cytoskeletal organisation by tracking differences in bioactivity

16:20 Barbora Křížková/Prague (CZ)

Taxonomically related, yet ecologically contrasting bark beetle species host fundamentally distinct microbial communities

16:40 Joseph Strauss/Tulin (A)

The genetic and epigenetic regulation of fungal secondary metabolism— key findings and introduction to lab activities

17:00 Markus Gorfer/Tulin (A)

Opportunities for applied mycological biodiversity research at the AIT

17:20 Khadija Hassan/HZI Braunschweig (G)

Screening of novel antimicrobial agents from Basidiomycota

17:40 Josphat Matasyoh, Egerton (Kenya)

New interesting natural products from Kenyan Basidiomycota

18:00 - 19:00 Dinner

Tuesday, 5th October

8:30 - 9:05 Pedro W. Crous/Utrecht (NL)

Redefining Fusarium

Chair: Priscila Chaverri

9:05 - 9:40 Miroslav Kolarik/Prague (CZ)

Ribosomal DNA – better the devil, you know

Chair: Marc Stadler

9:40 - 10:10 Coffee break

10:10 - 12:00 Symposium: Ascomycete Systematics

Chairs: Yasmina Marin-Felix, Johannes Z. Groenewald

Speakers

10:10 Dania García Sánchez/Tarragona (Spain)

Marine and freshwater sediments: outstanding ecosystems for ascomycetes

10:30	Lucile Wendt/HZI Braunschweig (G) Current outline of Xylariales (Sordariomycetes)
10:50	Yasmina Marin-Felix/HZI Braunschweig (G) Biodiversity of coprophilous fungi, with special focus in taxa belonging to the Sordariales
11:10	Johannes Z. Groenewald/Westerdijk Institute (N) The genus <i>Mycosphaerella</i> – modern treasure chest or ancient coffin?
11:30	Yalemwork Meswaet/Frankfurt am Main (G) Unraveling unexplored diversity of cercosporoid fungi (Mycosphaerellaceae, Mycosphaerellales, Ascomycota) in tropical Africa
12:00 - 13:00	Lunch break

13:00 - 15:30 Symposium: Bioactive Compounds

Chairs: Hedda Schrey, Eric Kuhnert

Speakers 13:00	Hedda Schrey/HZI Braunschweig (G) Evaluation of the secondary metabolites of <i>Clitocybe nebularis</i> (Agaricomycetes, Tricholomataceae)
13:15	Sepas Sarawi/Frankfurt am Main (G) Occurrence and chemotaxonomy of amatoxins in <i>Lepiota</i> spp. (Agaricales)
13:30	Larissa Heck, Felix Schmidt/Mainz (G) Fungal attack: Chemical communication based on the secondary metabolism associated with tree canker
13:45	Blondelle Matio Kemkuignou/HZI Braunschweig (G) Characterization and biological evaluation of secondary metabolites from the plant pathogenic fungus <i>Phoma macrostoma</i>
14:00	Sandra Halecker/HZI Braunschweig (G) Exploring the chemical potential of the invasive ash dieback pathogen Hymenoscyphus fraxineus and its avirulent European relative H. albidus
14:15	Tian Cheng/Prague (CZ) The biosynthesis of illudin
14:30	Henrike Heinemann/Hannover (G) Investigation of the release from the PKS-NRPS hybrid and cyclisation steps during the biosynthesis of cytochalasans
14:45	Katharina Schmidt/Hannover (G) Biosynthetic studies on tropolone maleic acid anhydride conjugates from Hypoxyon lienhwacheense
15:00	Kevin Becker/Hannover (G) Azaphilone pigments from <i>Hypoxylon fragiforme</i> and <i>H. rubiginosum</i> – chemistry, biosynthesis, and biological activities

In parallel: Mycological Progress EB meeting (non-public)

15:15 - 18:00	Coffee break/Poster session	
18:00 - 19:00	Dinner	
19:00 - 19:15	Springer Young Scientist Awards (Claudia Panuschka)	
19:15 - 19:30	Laudatio Brefeld award (Ewald Langer) and handing over the certificate	
19:30 - 20:00	Brefeld Award Lecture (Oleksander Ordynets)	
	Diversity of aphyllophoroid fungi from taxonomical and biogeographical	
	perspectives	
Chair: Maika Diananhring		

Chair: Meike Piepenbring

Wednesday, 6th October

8:30 - 9:05 Machiel Noordeloos

The genus *Entoloma* revisited: towards a new European monograph based on

molecular and morphological data

Chair: Tatiana Gibertoni

9:05 - 9:40 Tatiana Gibertoni

Using molecular data from (neo)tropical material to delimit taxa of

Agaricomycetes (Basidiomycota)

Chair: Machiel Noordeloos

9:40 - 10:10 Coffee break

10:10 - 13:00 Symposium: Ecology Chairs: Claus Bässler, Witoon Purahong

Speakers

10:10 Witoon Purahong/Halle (Saale) (G)

Application of next-generation sequencing (NGS) to characterize the fungal and prokaryotic communities associated with degradation of a bio-based and

biodegradable plastic

10:25 Hans Halbwachs/Frankfurt am Main (G)

Fungal fossils – ecological probes into the past

10:40 Miguel Bermudez/Frankfurt am Main (G)

The enemy of my enemy is my friend: hyperparasitic fungi on Meliolales, hidden

fungal diversity in the tropics

10:55 Franz Krah/Frankfurt am Main (G)

Response of mushroom communities to harsh microclimate is best explained by

the toughness-protection hypothesis

11:10 Steffen Carl/Berlin (G)

Effects of laboratory conditions on the composition of leaf detached aquatic fungal

communities on Alnus glutinosa leaf litter

11:25 Britta Uhl/Frankfurt am Main (G)

Relative importance of dead wood types and microclimate on saproxylic diversity

11:40	Henrik Oechler/Frankfurt am Main (G) Fungal mushroom size and color along macro- and microclimatic gradients
11:55	Rosemary Tonjock Kinge/Buea(Cameroon), Bayreuth (G) Comparison of mycobiomes in four entire legumes using the Illumina sequencing approach
12:10	Enno Mager/Freising (G) Pest dynamics of sooty bark disease in Bavaria since 2018
12:25	Li Ji/Halle (Saale) (G) Altitudinal patterns of soil fungal community in the Chinese cold temperate forest
12:40	Benjawan Tanunchai, Witoon Purahong/Halle (Saale) (G) FungalTraits vs. FUNGuild: comparison of ecological functional assignments of leaf- and needle-associated fungi across 12 temperate tree species.

13:00 - 14:00 Lunch break

14:00 - 15:30 Symposium: Biotechnology/Genomics

Chairs: Annegret Kohler, Martin Rühl

Speakers 14:00	Marine Duhamel/Bochum (G) Convergent stepwise recombination suppression in mating-type chromosomes of Microbotryum fungi
14:15	Florian Hennicke/Bochum, Martin Rühl/Gießen (G) (first author Axel Orban) Transcriptomics of different fruiting stages of the edible agaric <i>Cyclocybe aegerita</i> indicates a complex regulation of fruiting and enzymes that are putatively involved in fungal oxylipin biosynthesis
14:30	Axel Orban/Gießen (G) Volatile organic compounds of the mushroom <i>Cyclocybe aegerita</i> – an example of altering volatilomes during fungal developmental stages
14:45	Miriam Große/HZI Braunschweig (G)

Volatile polyketides from Basidiomycota

15:00 Helmut König/Mainz (G)

Mixtures and hybrids of Saccharomyces and wild yeast strains in wine making

15:15 Fabio Brescia/Gießen (G)

Biogenesis of aroma-active bicyclic monoterpenoid benzofuran derivatives by fungi of the division Basidiomycota

15:30 - 16:00 Coffee break

16:00 - 18:00 Symposium: Plant and animal pathogens

Chairs: Marco Thines, Danny Haelewaters

Speakers

16:00 Danny Haelewaters/Ghent (B)

Interactions of Laboulbeniales with their hosts and hyperhosts: association

networks and community ecology

16:30 Anthony Buaya/Frankfurt am Main (G)

Disentangling the taxonomy and diversity of the simple holocarpic oomycetes

16:45 Fatemeh Salmaninezhad/Frankfurt am Main (G)

Oomycetes associated with ornamental trees in Iran

17:00 Gitta Langer/Göttingen (G)

Current forest diseases in Germany and the impact of latent fungal pathogens on

tree health

17:30 Marco Thines/Frankfurt am Main (G)

Evolutionary patterns in oomycetes – the way behind and steps ahead

18:00 - 19:00 Dinner

19:00 Evening Lecture

Meike Piepenbring/Frankfurt am Main (G)

Pioneer studies of fungal diversity in West Africa

Chair: Machiel Noordeloos

Thursday, 7th October

8:30 - 9:05 Eric Kuhnert/Hannover (G)

From biodiversity to biosynthesis - The adventures of a mycologist

Chair: Marc Stadler

9:05 - 9:40 Annegret Kohler/Nancy (F)

The evolution of mycorrhizal genomes und transcriptomes

Chair: Miroslav Kolarik

9:40 - 10:10 Coffee break

10:10 - 12:00 Symposium: Systematics of Basidiomycota

Chairs: Meike Piepenbring, Slavomír Adamčík

Speakers

10:10 Slavomír Adamčík/Bratislava (Slovakia)

How to deal with recent tremendous changes in systematics of agaricoid Clavariaceae

10:40 Cathrin Manz/Frankfurt am Main (G)

Four new species of Russula subsect. Roseinae from tropical montane forests in

western Panama

10:55	Kai Reschke/ Frankfurt am Main (G) Multiple loci and numerous type sequences for a new understanding of <i>Entoloma</i> subg. <i>Nolanea</i>
11:10	Frederick Witfeld/Bochum (G) Characterization of a new lineage of heat resistant basidiomycetous species
11:25	Lena Steins/Bochum (G) Comparative genomics of Ustilaginales indicate ability of sexual reproduction in asexual species and reveal hints for hybridization
11:40	Vasilii Shapkin/Bratislava (Slovakia) Solitary trees in agricultural open land and their impact on soil fungi

12:00 - 13:00 Lunch break

<u>13:00 - 15:00 Symposium: Lichenology and molecular ecology of lichen associated organisms</u> Chairs: Robert Lücking, Martin Grube

Speakers 13:00	Robert Lücking/Berlin (G) The basidiolichen story: a hommage to Franz Oberwinkler
13:30	Bibiana Moncada/Bogotá (Colombia) ColFungi: Cataloguing the fungi including lichens from Colombia
14:00	Martin Grube/Graz (A) Diversity and effect: microbial associations of lichens
14:30	Fernando Fernández/Graz (A) Genomic consequences of hybridization in a lichenized fungal syngameon

15:00 - 15:30 Closing ceremony