

Program

Monday September 22

8.00 Registration

Centro Convenciones

9.30 Opening of the workshop

Octagon, lecture room 1 (basement)

10.000 – 11.00 Opening lecture

Ian Alexander, Institute of Biological and Environmental Sciences, University of Aberdeen, Scotland, UK

Mycorrhizas in tropical forests – looking backwards and forwards

11.00 - 11.30 Coffee break

11.30 - 13 *Lectures on arbuscular mycorrhizas of tropical forest trees*

11.30 – 12.00 Scott Mangan, Smithsonian Tropical Research Institute, Panama

The importance of the species composition of arbuscular mycorrhizal fungi to tropical tree seedlings

12.00 – 12.30 Claudia Diez, Facultad de Ciencias Agropecuarias, Universidad Nacional de Colombia, Medellín, Colombia

Ecological considerations on the mycorrhizal associations in soils of Andean highlands

12.30 – 13.00 General discussion

13.00 Lunch in Octagon

15.00 – 17.00 *Lectures on ECM of tropical forest trees*

15.00 – 15.30 Leho Tedersoo, Institute of Ecology and Earth Sciences, Tartu University, Tartu, Estonia

High diversity of resupinate thelephoroid fungi in the Southern Hemisphere

15.30 – 16.00 Bernard Moyersoen, Laboratoire d'Algologie, de Mycologie et de Systématique expérimentale, Université de Liège, Belgium

Biodiversity and specificity of ectomycorrhizal fungi associated with *Pakaraimaea dipterocarpacea* in Guayana, Venezuela

16.00 - 16.30 Jean Weber, Institute of tropical Forestry and Forest Products (INTROP), University Putra Malaysia (UPM), Selangor MALAYSIA

Analysis of spatial relations between the distribution patterns of *Shorea leprosula* saplings and the ectomycorrhizal status of canopy trees

16.30 – 17.00 General discussion

19.00 Welcome dinner in Casa Lojana

Tuesday September 23

9.00 - 13.00 *Lectures on mycorrhizas of Ericaceae, myco-heterotrophic plants and green orchids in tropical forests*

9.00 – 9.30 Markus Göker, Systematic Botany, Mycology and Botanical Garden, Eberhard-Karls-University, Tübingen, Germany
Clustering optimisation techniques to define biologically meaningful molecular operational taxonomic units (MOTUs)

9.30 – 10.00 Sabrina Setaro, Systematic Botany, Mycology and Botanical Garden, Eberhard-Karls-University, Tübingen, Germany, currently: Wake Forest University, Biology Department, Winston-Salem, US
Sebaciales in Andean ericads

10.00 – 10.30 Juan Pablo Suarez, Biología Molecular y Celular, Universidad Técnica Particular de Loja (UTPL), Loja, Ecuador
Phylogeny and notes on ecology of Tulasnellales forming mycorrhiza with orchids: a comprehensive overview

10.30 - 11.00 Ingrid Kottke, Botanical Institute, Systematic Botany and Mycology, Eberhard-Karls- University Tübingen, Germany
Verification of orchid mycobionts by ultrastructural characteristics of fungi

11.00 – 11.30 Coffee break

11.30 – 12.00 Marc-André Selosse, Centre d'Ecologie Fonctionnelle et Evolutive, CNRS, Université Montpellier II, France
Tropics change the rule! Heterotrophic plants using carbon from soil fungi (myco-heterotrophy): Contrasting strategies in fungal association and carbon source between temperate and tropical regions

12.00– 12.30 Stephan Imhof, University Marburg, Germany
Cryptic biodiversity: AM colonization pattern in tropical myco-heterotrophic plants

12.30 – 13.00 Tupac Otero, Departamento de Ciencias Biológicas, Universidad Nacional de Colombia, Sede Palmira, Colombia
Coevolution in an orchid mycorrhizal Interaction

13.00 – 13.30 General discussion

13.30 Lunch in Octagon

15-17 *Poster sessions*
Octagon lecture room 2

Amadou M. Bâ, Université des Antilles et de Guyane: ECM of *Coccoloba*

Ingeborg Haug, University Tübingen, Germany: ECM of Nyctaginaceae in the pristine Andean cloud forest

Ingrid Kottke, University Tübingen, Germany: Three functionally different mycobiont groups associated with *Graffenrieda emarginata* (Melastomataceae) in the tropical mountain rain forest of Southern Ecuador

Paulo Herrera, Juan Pablo Suárez, , Dario Cruz, Ingrid Kottke

Symbiotic fungi of epiphytic and terrestrial orchids in the pristine forest and regenerating gaps of the Andean cloud forest

Paulo Herrera, Juan Pablo Suárez, Ingrid Kottke

First information on Ascomycetes in the tropical rain forest of RBSF: Isolates from roots of epiphytic orchids identified by molecular methods

Darío Cruz, Juan Pablo Suárez, Ingrid Kottke

Sexual states of Tulasnellales forming mycorrhiza with epiphytic orchids in the RBSF
Leho Tedersoo et al. Institute of Ecology and Earth Sciences, University of Tartu.
Towards the global community of ectomycorrhizal fungi: missing links from Tasmania

Evening lecture 18-19 Open to public, Octagon

Dr. Jürgen Homeier, University of Göttingen, Germany

The South-Ecuadorian Biodiversity Hotspot: Aspects of a unique ecosystem

20.00 Dinner in Mar Y Cuba

Wednesday September 24

Whole day excursion to Estación Científica San Francisco (1820 m; half way to Zamora) and forest sites of Reserva Biológica San Francisco (up to 2100m); bushy páramo at El Tiro pass (2700 m)

19.00 Dinner in Hotel Quo Vadis

Thursday September 25

9-11 *Lectures on arbuscular mycorrhizas in different tropical regions, threats and afforestation efforts*

9.00 - 9.30 Amadou M. Bâ, Laboratoire de Biologie et Physiologie Végétales, Université des Antilles et de la Guyane, Guadeloupe (West Indies), France

Occurrence and importance of arbuscular mycorrhizas in the wetland tree *Pterocarpus officinalis* Jacq. (Fabaceae)

9.30 – 10.00 Tesfaye Wubet, Helmholtz Center for Environmental Research, Department of Soil Ecology (UFZ) Halle, Germany

Diversity of arbuscular mycorrhizal fungi in the Afromontane forest ecosystems of Ethiopia

10.00 – 10.30 Ingeborg Haug, Systematic Botany, Mycology and Botanical Garden, Eberhard-Karls-University, Tübingen, Germany

Arbuscular mycorrhizal fungal communities in degraded rehabilitation plots and a neighbouring pristine mountain rain forest in southern Ecuador

10.30 – 11.00 Laura Aldrich-Wolfe, Department of Biological Sciences, North Dakota State University, USA

Diversity and composition in arbuscular mycorrhizal fungal communities of forest and pasture: implications for re-establishment of tropical forest trees

11.00 – 11.30 Coffee break

11.30 -13.00 *Poster session*

Narcisa Urgiles, Paul Loján, Arthur Schüßler, UNL and UTPL, Loja, Ecuador; LMU München, Germany: Application of arbuscular mycorrhizal fungi for the growth of tropical trees

Claudia Krüger, Arthur Schüßler LMU, München, Germany: Molecular characterisation of South-Ecuadorian AMF.

Manuela Krüger, Arthur Schüßler, LMU, München, Germany: Molecular phylogeny

and evolution of AM fungi - an update.

Herbert Stockinger, Arthur Schüßler, LMU, München, Germany: DNA-barcoding, molecular identification and detection of AMF at the species-level. **Oscar Vivanco, Verónica Cueva, Ingrid Kottke, Juan Pablo Suárez**, Centro de Biología Celular y Molecular, Universidad Técnica Particular de Loja, Ecuador: Morphological and molecular characterization of arbuscular mycorrhizal fungi of wild tree tomato (*Solanum cajaniensis*) and cultivated tree tomato (*Solanum betaceum*)

Adela Beck and Ingrid Kottke, University Tübingen, Germany: Linking morphotypes with phylotypes of arbuscular mycorrhizas

13.00 Lunch in Octagon

15.00 -17.00 *Round table discussion*

17.00 – 18.00 *Guided Tour UTPL*

19.00 *Farewell dinner Centro Convenciones UTPL (cultural program)*