



The Hyphal Network of Arbuscular Mycorrhizal Fungi in the Soil:
A Potential Key to a Better Understanding of Ecosystems and the
Management of Horticultural Soils

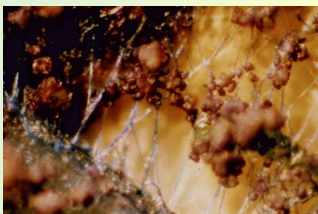
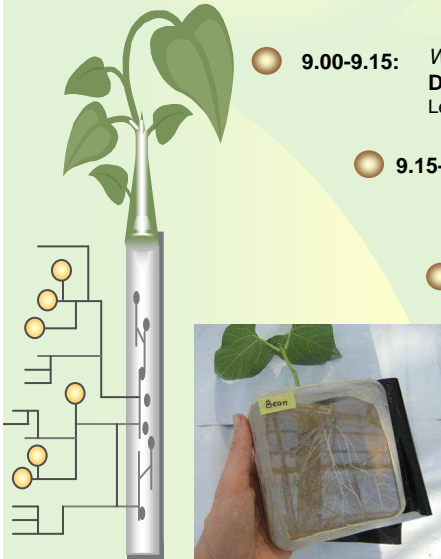
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Second Open Seminar on Progress in Horticultural and Agricultural Rhizosphere Research

01.04.2009

Humboldt University of Berlin

Dorotheenstraße 24 (1140) / Hegelplatz
Seminar room 1.102



- **9.00-9.15:** *Welcome*
Dr. Elke Neumann
Leibniz Institute of Vegetable and Ornamental Crops, Grossbeeren, Germany
- **9.15-10.15:** *Apoplastic invertases and jasmonates in the regulation of arbuscular mycorrhiza*
Prof. Bettina Hause
Leibniz Institute of Plant Biochemistry, Halle/Saale, Germany
- **10.15-11.15:** *The arbuscular mycorrhizal symbiosis of rice*
Prof. Uta Paszkowski
Department for Plant Molecular Biology, University of Lausanne, Switzerland
- **11.15-12.15:** *Diversity-activity relationship of ammonia-oxidizing bacteria in soils under functional groups of grassland species under climate warming*
Prof. Monique Carnol and S. Malchair
Institute of Plant Biology, Liège University, Liège, Belgium
- **12.15-13.30 Lunch break**
- **13.30-14.15:** *Molecular markers to assess mycorrhizal functioning*
Prof. Natalia Requena and Mrs. Nicole Helber
Institute of Applied Biosciences, Karlsruhe University of Technology, Germany
- **14.15-14.45:** *Investigation of mycorrhizas in long-term field fertilization experiments on a dry, sandy soil*
Dr. Joachim Raupp
Institute of Biodynamic Research, Darmstadt, Germany
- **14.45-15.30:** *Below-/aboveground interactions: Collembola as grazers of arbuscular mycorrhizal fungi*
Prof. Liliane Ruess and Mr. Christopher Ngosong
Institute of Biology, Humboldt University of Berlin, Berlin, Germany
- **15.30-15.45 Coffee break**
- **15.45-16.15:** *Prospects and limitations of to the application of biofertilizers based on arbuscular mycorrhizal fungi in horticulture and agriculture in Germany*
Mrs. Barbara Schmid
Institute of Plant Nutrition, Hohenheim University, Stuttgart, Germany
- **16.15-16.45:** *Advanced methods for non-invasive measurement of plant structure and function*
Dr. Arnd Kuhn and Dr. Siegfried Jahnke
Institute of Chemistry and Dynamics of the Geosphere, Research Centre Jülich, Germany
- **16.45-17.30:** *Extraradical endomycorrhiza development in relation to contribution of the symbiosis to plant nutrient uptake*
Dr. Elke Neumann and Mrs. Anja Müller
Institute of Vegetable and Ornamental Crops, Grossbeeren, Germany