

MicroFunction Workshop



Corporación colombiana de investigación agropecuaria

Upgrading residual biomass by microbial functional enrichment - New approaches for the production of recycling fertilizers

Scope

The workshop focusses on the utilization and valorization of organic residues by a microbial functional enrichment and the development of innovative recycling products for application as biobased fertilizer and soil improver. The workshop brings together scientist and practitioners in the fields of agronomy, waste management, biotechnology, biology, and environmental protection.

The workshop is organized in the frame of the Project MicroFunction (BMBF) in cooperation with University of Rostock and Agrosavia (Bogotá, Colombia).

- 09:00-09:20** Welcome and introduction
Bettina Eichler-Löbermann (Univ Rostock)
Mauricio Cruz (Agrosavia)
- 09:20-09:40** Improving the efficiency of low soluble organic and mineral fertilizers through
PGPR (German Estrada, Agrosavia)
- 09:40-10:00** Microbiome and the corresponding functional potentials
Michael Schlöter (TU Munich)
- 10:00-10:20** Microbial communities' contribution to soil and plant health
Silke Ruppel (IGZ Großbeeren)
- 10:20-10:40** Bioprospecting strategy of Colombian microbial biodiversity for Agriculture
Carol Amaya (Agrosavia)
- 10:40-11:10** **Coffee break**
- 11:10-11:30** From waste to fertilizers - insides from research
Dorette Müller-Stöver (Univ Copenhagen)
- 11:30-11:50** Hydrogel-Encapsulated growth-promoting bacteria
Mauricio Cruz (Agrosavia)
- 11:50-12:10** Microbial products - failure in field?
Christel Baum (Univ Rostock)
- 12:10-12:30** Microbial nutrient turnover in soil
(Beatrice Berger, JKI Braunschweig)

- 12:30-13:00** Microbial inoculants in maize cultivation
Lena Geist & Mathias Thielicke (ZALF)
- 13:00-14:00** **Lunch and Networking**
- 14:00-14:20** Microbial mediated plant salt stress mitigation
Abdelfadil (IGZ Großbeeren)
- 14:20-15:00** From waste to fertilizers - insides from the practice
- 15:00** City tour and visits of compost plants
- 19:00** **Dinner**

Event organiser

Department of Crop Production - Nutrient Cycling