

# BayCEER Kolloquium

Lectures in Ecology and  
Environmental Research

Summer 2017



UNIVERSITÄT  
BAYREUTH

Thursday

**01.06.2017**

**12:00 in S21, GEO**

**Jun.-Prof. Dr.  
Johanna Pausch**

Agroecology, BayCEER, University of Bayreuth

## **Rhizodeposition: Processes and Functions in Agroecosystems**

The rhizosphere is certainly the most relevant soil hotspot defining the quality and quantity of our crops. Most of the biogeochemical and physical differences between the rhizosphere and the surrounding soil are caused by the release of rhizodeposits into the soil. Rhizodeposits modify the activity and growth rates of heterotrophic soil microorganisms and alter community structure in the vicinity of roots. The presentation shows how this impacts 1) soil organic matter decomposition (rhizosphere priming effect) and 2) the carbon transfer through the decomposer system.