

Wintersemester / Winter Term 2015/2016

## BayCEER Kolloquium

Vortragsreihe Ökologie und Umweltforschung  
*Lecture series in Ecology and Environmental Research***Donnerstag 26.11.2015, 12:00 Uhr, H6**

Anschließend Postkolloquium mit Mittagsimbiss im Foyer H6

### Dr. Derek Persoh

Institute for Evolution and Biodiversity of Plants,  
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# Fungal community structure and function - from current knowledge towards predictability

The vast majority of fungi are directly or indirectly associated with plants. They play key roles in decomposition and provide nutrients to 80% of all plants as fungal partners in mycorrhizal symbioses. These functions in nutrient cycling are fulfilled by species-rich communities in nearly all terrestrial ecosystems. The functional redundancy of fungal communities is in contrast to their highly variable taxonomic composition, which currently appears unpredictable. To elucidate the key drivers of community composition, I will discuss the mechanisms of fungal community assembly with a focus on abiotic and biotic filtering and priority effects. A meta'omics approach will be presented which allows for linking functional activity of co-occurring fungal sub-communities to ecosystems processes. Considering inter-dependencies within and diverging environmental demands among sub-communities may eventually improve predictability of fungal community composition.

Do. / Thu. 12 st  
Gebäude/Building  
GEO  
Hörsaal/Lecture hall  
H6Die Vortragsreihe  
ist eine  
interdisziplinäre  
Plattform zur  
Information und  
Diskussion für  
Studierende,  
Forschende und  
LehrendeGäste  
sind herzlich  
willkommen*The lecture series  
serves as an  
inter-disciplinary  
platform for  
students, junior  
and senior  
scientists.**Guests  
are cordially  
invited!*