

BayCEER Kolloquium

Lectures in Ecology and
Environmental Research

winter 2025/26



UNIVERSITÄT
BAYREUTH

Donnerstag/Thursday

30.10.2025

12:30 in H6, GEO



Dr. Mathias Scharmann

Plant Systematics, BayCEER

Plant evolutionary genomics: from adaptations to mating system supergenes

Why and how do plants evolve **'endless forms most beautiful and most wonderful'**, along environmental gradients, and from flowers to carnivorous traps?

I study how plants diversify and adapt to their environments by linking molecular data with ecological and organismic perspectives. My work focuses on evolutionary questions such as how supergenes and sex chromosomes evolve, and how novel, complex plant traits, develop, evolve and diversify. Using field studies, greenhouse experiments, and genome sequencing of wild populations and species, I aim to uncover the processes that connect genetic variation with ecological function and evolutionary innovation.

As a new BayCEER member, I look forward to explore interdisciplinary connections between ecology, evolution, and environmental change.

