# Ecology Seminar

## Tuesday, 14.10.2025
## 16:30h


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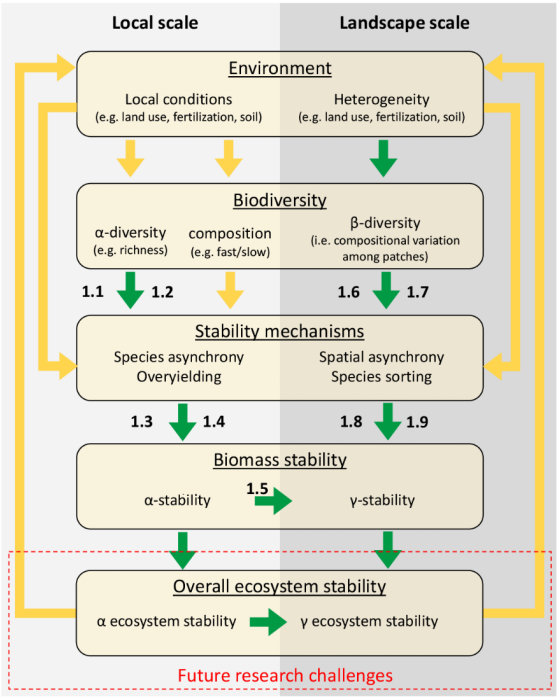
# Biodiversity and Temporal Stability of Naturally Assembled Ecosystems Across Spatial Scales





The relationship between biodiversity and ecosystem stability has long been central to ecological research, yet key uncertainties remain about the processes that underpin stability in naturally assembled ecosystems. I present an overview of the diversity–stability debate, tracing its development from early theory to current empirical evidence. At the local scale, I highlight the mechanisms through which biodiversity enhances stability, including overyielding, species asynchrony, and species' intrinsic stability. Moving beyond the local context, I explore how these processes scale up to larger spatial extents, where new dynamics and challenges emerge. Drawing on theoretical advances and empirical studies, I review the evidence for biodiversity–stability relationships across scales and identify the main knowledge gaps that continue to constrain our understanding. This synthesis provides a roadmap for future research on how biodiversity can safeguard the temporal stability of ecosystems under global change.


## Where? Lecture Hall B2, Building B2, Branišovská 1760