

Geobotany

Master Thesis

Impact of intraspecific diversity on plant-soil-feedback

Background: **Plant-soil-feedbacks (PSF)**, either mediated by co-occurring species or through a target species itself, can significantly impact plant performance. PSF are even supposed to affect plant **invasion processes** through various mechanisms. One rarely considered source of PSFs that has just recently gained attention is the contribution of **intraspecific diversity**.

Methods: In a **common garden** experiment, we will test the performance of native and invasive individuals of *Jacobaea vulgaris* GAERTN. in response to **soils differing in their cultivation histories**. The soil material will originate from a previous planting trial with *Jacobaea vulgaris* populations representing different levels of genetic diversity.

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Left: *J. vulgaris* rosette. Right: Experimental set-up for soil sourcing