Phytotelmata in Switzerland – Importance of insect colonization and detritus input for plant performance in *Dipsacus fullonum* 



## **Short description**

Many plants held water in their leaf axils such as bromeliads or provide organs to catch insects such as pitcher plants. While these phenomena are common in the tropics the occurrence of phytotelmata in Central Europe is rare. The teasel *Dipsacum fullonum* is one example of such a plant that collects water in its leaf axils. These ephemeral water bodies accumulate dead insects and are actively colonised by a few invertebrate decomposer species that develop in these microhabitats. This has been described by a few studies, but a detailed understanding of the processes in these systems is still lacking.

This project aims at (1) studying the spatial and interannual variability in the water-level, the detritus amount and the colonization by invertebrates in leaf axils of *Dipsacum fullonum* in the canton Zurich and its underlying drivers, and (2) manipulating water, detritus and invertebrates to measure the importance of these factors for plant performance and seed production.

## **Project Leader**

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## Major

Ecology and Evolution Forest and landscape management

Group work possible

Season Spring, Summer