

Aktuelle Themenschwerpunkte:

- Entstehung von Adaptationen in der Gattung *Capsella*. Phänotypische und molekulare Analyse
- Molekulare Grundlage der konvergenten Evolution des "selfing syndroms" in der Gattung *Capsella* (Brassicaceae).
- Evolution und molekulare Grundlagen des Befruchtungssystems bei Kreuzblütlern.
- Biogeographie der mittelasiatischen Gattung *Dontostemon* (Brassicaceae)
- Einwanderung von Talarten entlang von Höhengradienten in den Alpen. - Die Ausbreitung der *Cardamine pratensis* auf dem Urnerboden (Schweiz).
- Phänotypische und molekulargenetische Grundlage der Blatttypen beim Hirtentäschelkraut.- Morphologie, Anatomie, Physiologie, Wechselspiel mit Falschen Mehltäupilzen.
- Zehn-Jahre-Monitoring Experiment: Wandel genetischer Vielfalt in Folge von Klimaveränderungen am Beispiel der einjährigen Pionierpflanzen *Capsella bursa-pastoris*.

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