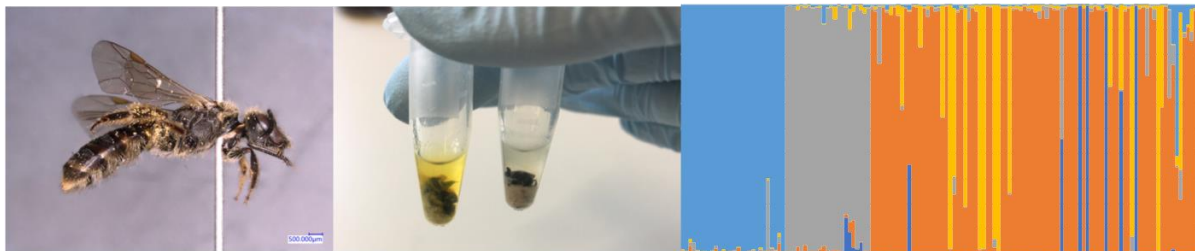


Master thesis in wild bee population genetics

The team of Prof. Meimberg is looking for a motivated student to join the working group for this highly interesting master thesis topic.

Topic:

Lasioglossum malachurum (Kirby, 1802) is a polylectic sweat bee, which can be found from April to late September. These primitive eusocial wild bees conglomerate in nests with more than 100 individuals. Wild bees are one of the most important pollinators and indispensable for successful crops, but recent projects postulated an alarming decline of insects. This is why a detailed understanding of the biology and population genetics of these pollinators became even more relevant. In the course of the BINATS projects, several experts examined the biodiversity of wild bees in agricultural landscapes in eastern Austria.



Requirements:

The master thesis will complement an ongoing PhD thesis and will be hosted at the molecular lab of the Institute for Integrative Nature Conservation Research, University of Natural Resources and Life Sciences Vienna. Several individuals are provided from different agricultural landscapes in eastern Austria.

The master thesis will employ the establishment of microsatellite markers of *L. malachurum*. The lab phase will include DNA isolation techniques, PCRs, gel electrophoresis and DNA library preparation for Illumina sequencing. Next generation sequencing data will be analyzed and evaluated using several bioinformatic programs like Bioedit, Genious etc.

Supervisor:

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Availability: immediately