Team

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Duration / Credits

9th - 20th September 2019 /
equals 7.5 ECTS-Credits

Location

Department of Ecology,
University of Innsbruck, Austria

Course Fee

€ 950,– (including course and bench fees, course materials and documentation)

Website

www.uibk.ac.at/projects/mati

Contact

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Enrolment

until 31st July 2019
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Koordinationsstelle für
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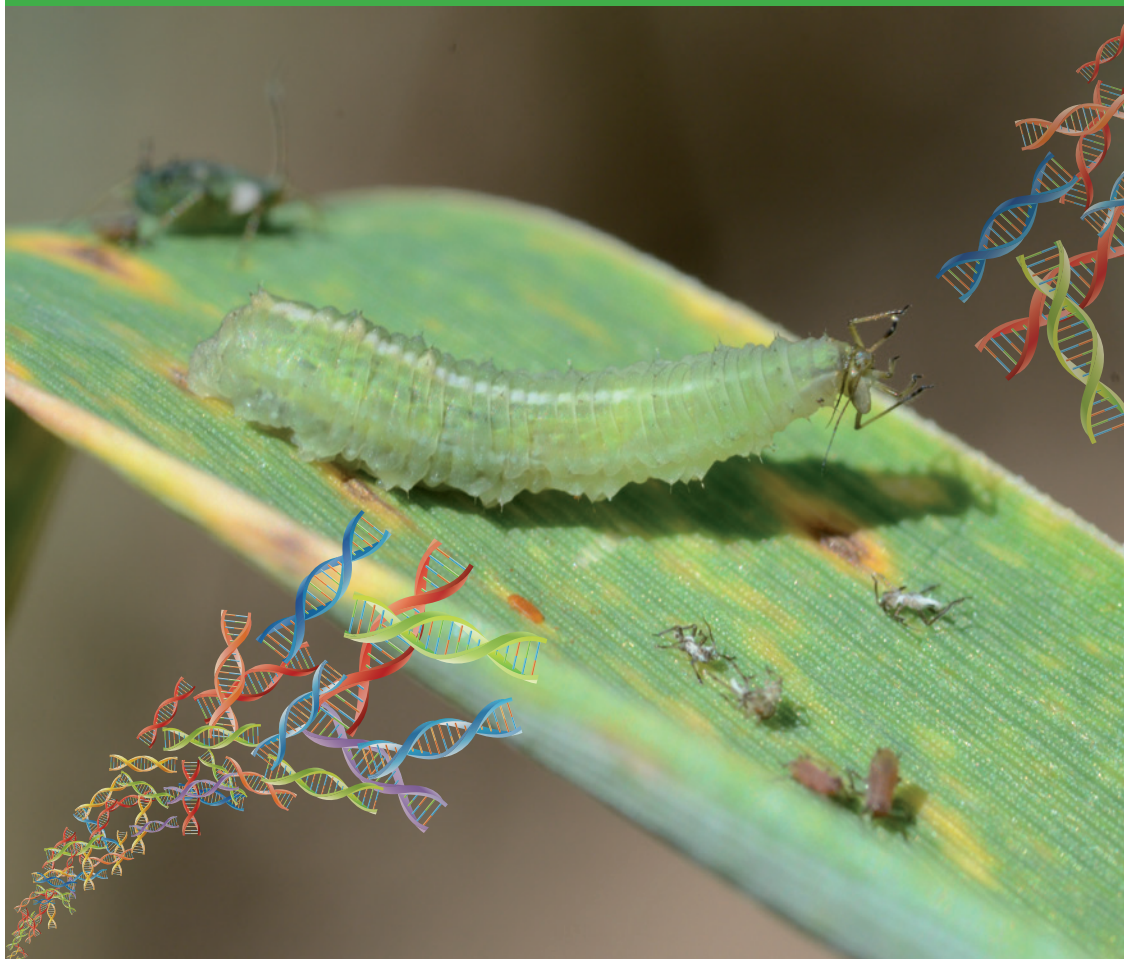
MOLECULAR ANALYSIS OF TROPHIC INTERACTIONS (MATI)

UNIVERSITY COURSE



Target audience

Undergraduate and graduate students as well as postdoctoral researchers and technicians who wish to apply DNA-based methods to study trophic interactions.

A maximum of 16 participants will be allowed for the course and a first come, first served basis applies.

Modules

Lecture series — 1.5 ECTS-Credits

The lecture series provides an overview of the state-of-the-art in molecular trophic ecology and deals with the concepts and the methodological approaches used in this research field including diagnostic and metabarcoding approaches.

Seminar series — 1.5 ECTS-Credits

The seminar series focuses on the application of molecular methods to analyse trophic interactions. Special emphasize is placed on the participants' projects regarding study design and optimal choice of methods.

Practical course — 4.5 ECTS-Credits

The practical course focuses on the application of techniques used in molecular trophic ecology. In the course participants will conduct the complete workflow from sample to Sanger sequencing. The general concepts of primer design and assay development needed for diagnostic and metabarcoding approaches will be addressed and practically performed for diagnostic PCR.

Total — 7.5 ECTS-Credits

Content and Learning Target

Molecular approaches offer exciting possibilities to study trophic interactions. Within the last decade considerable progress has been made in DNA-based methodology to unravel who eats what including predator-prey, host-parasitoid and herbivore-plant interactions across ecosystems. This course provides a hands-on introduction to molecular trophic ecology and offers the opportunity to discuss how to best apply these methods to your own research project.

By completing this course the participants will have achieved a general understanding of the concepts of molecular trophic ecology. They will be able to apply and develop basic molecular assays with the focus on the analysis of trophic interactions.

Coverage / Duration

The MATI course includes a lecture and seminar series as well as a practical lab course (equals Σ 7.5 ECTS-Credits). The practical lab work will be conducted in groups of 3-4 people in a laboratory specifically set up for molecular diagnostics at the Department of Ecology. The course runs for 2 weeks from 9th to 20th September 2019. Please check our website for more detailed information.

Qualification

Certificate of the University of Innsbruck in Molecular Analysis of Trophic Interactions. Participants who wish to obtain the ECTS-Credits have to generate a protocol on the practical coursework and to pass a final exam.