PNS0169 Traditional and molecular methods to assess biodiversity. Focus on DNA (meta)barcoding & Aquatic Organisms, 5 (+2) ECTS

Develop your skills to both perform, communicate, and critically evaluate studies that utilize DNA-based taxonomy!

This course offers a comprehensive overview of the paradigm shift from traditional morphology-based to novel molecular organism identification approaches. We will cover the use of molecular tools in both basic research and for applied use with a focus on aquatic ecosystem assessment, from species collection to the use of diversity in environmental legislation. Gained knowledge will be examined by creating public Wikipedia pages and a collaborative Open Access publication of all participants.
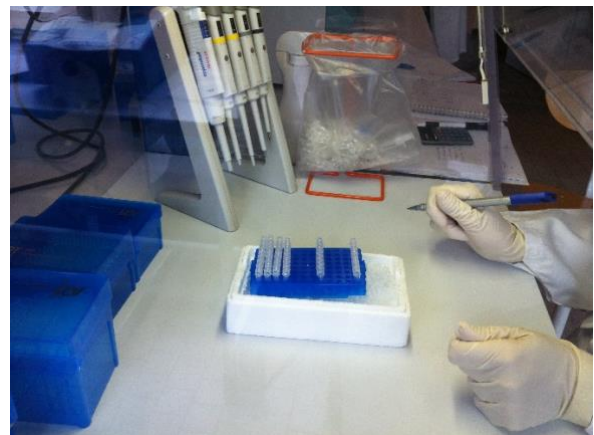
Course Dates: Intensive course week 25-29th of March 2019, Uppsala; course period with distance homework 18th of March to 31st of May 2019.

The course is **free** for PhD-students from SLU and from the COST network DNAqua-Net* (*including travel and lodging).
Application by email to: maria.kahlert@slu.se

More information can be found here

Teachers:

- **Tomas Roslin** (TR), Dept. of Ecology, SLU.
  https://www.slu.se/en/cv/tomas-roslin/
- **Björn Lindahl** (BL), Dept. of Soil Sciences, SLU.
  https://www.slu.se/en/cv/bjorn-lindahl/
- **Sari Peura** (SP), Dept. of Forest Mycology and Plant Pathology, SLU.
  https://www.slu.se/en/cv/sari-peura/
- **Maria Kahlert** (MK), Dept. of Aquatic Science and Assessment, SLU.
  https://www.slu.se/en/cv/maria-kahlert/
- **Patrik Bohman** (PB), Dept. of Aquatic Resources, SLU.
  https://www.slu.se/en/departments/aquatic-resources1/analysis/individniva1/genetics-and-genetic-diversity-/Fish-crayfish-and-mussels---test-of-methodology-and-usability-/
- **Malin Strand** (MS), ArtDatabanken, SLU.
  https://www.slu.se/en/cv/malin-strand/
- **Florian Leese** (FL) University of Duisburg-Essen, Germany.
  https://www.uni-due.de/leeselab/leeselab
- **Jan Macher** (JM) Naturalis Biodiversity Center, Leiden, Netherlands.
  https://www.researchgate.net/profile/Jan_Niklas_Macher
- **Valentin Vasselon** (VV), INRA, France.
  https://www.researchgate.net/profile/Valentin_Vasselon2
- **Olle Terenius** (OT), Uppsala University.
  https://meta.wikimedia.org/wiki/User:Olle_Terenius_(UU)
- **Norbert Häubner** (NH), The Swedish Agency for Marine and Water Management, SwAM (HaV). https://se.linkedin.com/in/norbert-h%C3%A4ubner-92176b38