Morning session

(Meta)-barcoding activities with focus on Environmental Assessment in Sweden

8.00 – 8.30	Coffee, registration
8.30 – 8.40	Welcome *Åke Olson & Maria Kahlert, SLU*
8.40 - 10.00	Projects Environmental Assessment with focus on the "Miljöforskningsanslaget" (Environmental Research Grants) projects, call DNA-methods-in-environmental-monitoring (2019-2021), funded by The Swedish Environmental Protection Agency (SEPA) and The Swedish Agency for Marine and Water Management (SwAM)
8.40 – 9.05	**Keynote**: Identification of macroinvertebrates *Professor Tomas Roslin, SLU*
9.05 – 9.30	**Keynote**: Monitoring of biodiversity in Swedish forest soils *Professor Björn Lindahl, SLU*
9.30 - 9.45	ePIKE - Testing the applicability of eDNA for monitoring pike (*Esox lucius* L) abundance *Erik Karlsson and Patrik Bohman, SLU*
9.45 - 10.00	DNA-barcoding of marine phytoplankton *Agneta Andersson, Umeå University*
10.00 - 10.15	**Coffee**
10.15 - 11.30	**Infrastructure**
10.15 - 10.30	Integrating metabarcoding data into the Swedish Biodiversity Data Infrastructure (SBDI) *Anders Andersson, KTH / SciLifeLab*
10.30 - 10.45	The SLU Metabarcoding Laboratory - UMBLA *Åke Olson, SLU*
10.45 - 11.00	eDNA service at the Swedish Museum of Natural History *Niclas Gyllenstrand, Swedish Museum of Natural History (NRM)*
11.00 - 11.30	DNA-sequencing capabilities at SciLifeLab genomics *Olga Vinnere Pettersson, NGI-Uppsala, SciLifeLab* A new service for amplicon library preparation at NGI Stockholm *Franziska Bonath, NGI- Solna, SciLifeLab*
	Short break

11.35 - 12.45	**Projects Environmental Assessment**
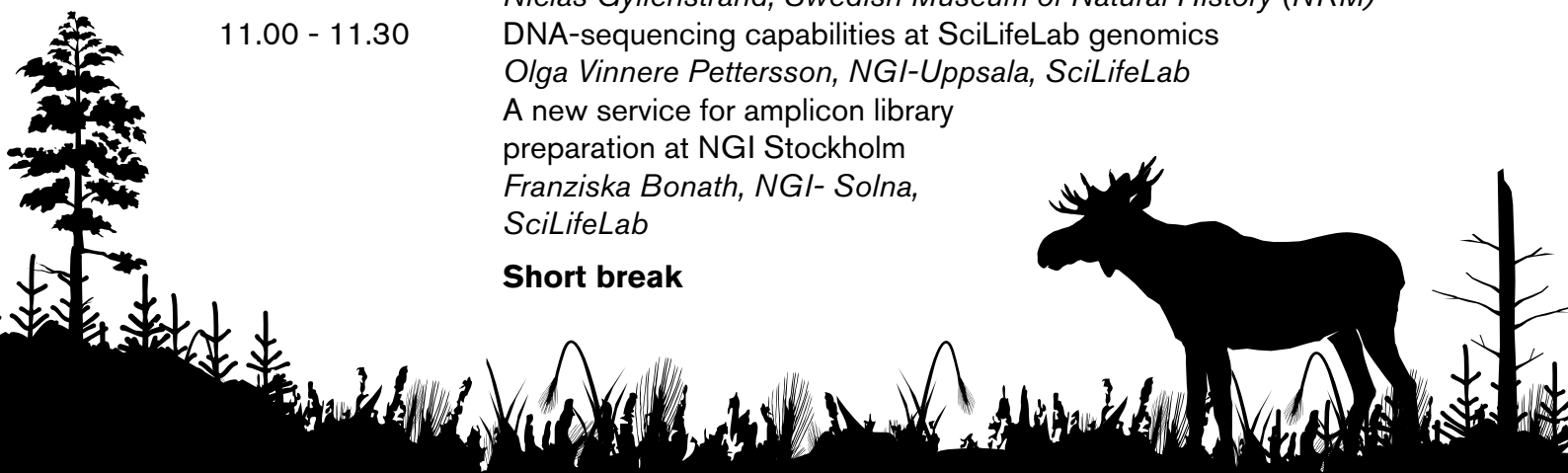
11.35 - 12.45 **Projects Environmental Assessment**

11.35 - 11.45 Barcoding of freshwater taxa for improved assessment of biodiversity (FRESHBAR)
Maria Kahlert, SLU

11.45 - 12.00 Establishing DNA-barcode libraries of Swedish clitellate worms (Annelida)
Christer Erséus, Gothenburg University

12.00 - 12.15 NEMOte BARCODing: Advancing monitoring of Baltic benthic ecosystems
Francisco Nascimento, Stockholm University

12.15 - 12.30 Life-DNAquatic
Micaela Hellström, AquaBiota Water Research (ABWR AB)

12.30 - 12.45 eDNA – promises and challenges
Helena Wiklund, Gothenburg University

12.45 - 13.45 **Lunch (provided for all participants)**

Afternoon session

Molecular identification of species and communities in research projects

13.45 – 14.15 **Keynote:** Microbial communities as indicators of environmental change
Professor Sara Hallin, SLU

14.15 – 14.30 Untargeted barcoding: Exploring shotgun metagenomics for microbial systems assessment
Stefan Bertilsson, SLU

14.30 – 14.45 Target capture probe design for green plants; a novel tool for environmental DNA sequencing
Kevin Nota, Uppsala University

14.45 - 15.00 Vegetation shapes fungal spore arrival within a forest–agricultural mosaic landscape
Miguel-Angel Redondo, SLU

15.00 - 15.30 **Coffee**

15.30 – 15.45 Tracking marine and freshwater threatened invertebrates
Sonja Leidenberger, University of Skövde

15.45 – 16.00 DOs and DON'Ts of switching from bulk samples to eDNA for environmental monitoring: a case-study with terrestrial insects
Daniel Marquina, Swedish Museum of Natural History (NRM)

16.00 – 16.15 Exploring microbial eukaryotic diversity with long-read metabarcoding
Mahwash Jamy, Uppsala University

16.15 – 16.30 Optimized metabarcoding protocol using Pacific Biosciences sequencing of the ITS2 region allows semiquantitative analysis of fungal communities
Carles Castaño Soler, SLU

16.30 – 16.45 Detecting bioimmigrants – metabarcoding of plant pathogenic oomycetes in soil from the rhizosphere of imported woody plants
Simeon Rossmann

16.45 – 17.00 **Concluding remarks**