

Analysis of high-throughput sequencing data from microbial communities course (3 HEC)

Wednesday 27/11 (Room N - Undervisningshuset)

- 9.00-9.15 Course Introduction
- 9.15-10.00 Introductory lecture: From barcoding to metagenomics (Björn Lindahl)
- 10.00-10.45 Lecture: Taxonomy and identification (Urmas Kõljalg)
- 10.45-11.00 BREAK
- 11.00-12.00 Lecture: Sequence comparisons and clustering (Mikael Brandström-Durling)
- 12.00-13.00 LUNCH (not organised)
- 13.00-14.00 Student presentations I
- 14.00-14.15 FIKA (provided)
- 14.15-16.00 SCATA - tutorial (Björn Lindahl)
- 16.00-18.00 SCATA - exercise
- 19.00 - Dinner/Pub in town

Thursday 28/11 (Room F - Undervisningshuset)

- 9.00-10.45 QIIME - tutorial (Antonio Gonzalez Pena)
- 10.45-11.00 BREAK
- 11.00-12.00 Student presentations II
- 12.00-13.00 LUNCH (not organised)
- 13.00-14.00 QIIME - exercise (Antonio Gonzalez Pena, Marie Davey)
- 14.15-14.30 FIKA (provided)
- 14.30-16.00 QIIME - exercise (Antonio Gonzalez Pena, Marie Davey)

Friday 29/11 (Room J - Undervisningshuset)

- 8.30-9.15 Lecture: Metagenomics (Germán Bonilla-Rosso)
- 9.25-10.10 Lecture: MEGAN and sequence mapping to backbone trees (Marie Davey)
- 10.10-10.25 BREAK
- 10.25-11.10 Lecture: Diversity estimation (Karina Clemmensen)
- 11.15-12.00 Lecture: Multivariate statistics (Sara Hallin)
- 12.00-13.00 LUNCH (not organised)
- 13.00-14.00 Student presentations III
- 14.00-14.15 FIKA (provided)
- 14.15-16.00 Demonstrations

Lördag 30/11 (BioCenter A241)

- 9.00-10.00 Lecture: Functional vs. taxonomy based approaches in prokaryotes (Sara Hallin)
- 10.00-10.15 BREAK
- 10.15-11.00 Lecture: Fungal identification (Henrik Nilsson)
- 11.00-12.00 PlutoF tutorial (Henrik Nilsson)
- 12.00-14.00 LUNCH (buffet - BioCenter lunch room)
- 14.00-15.00 Student presentations IV
- 15.00-17.00 PlutoF exercise (Henrik Nilsson)

Söndag 1/12 (BioCenter A241)

- 9.00-10.00 Lecture: Comparative genomics provide an approach to study microbial communities (Jan Stenlid)
- 10.00-12.00 Methodological examples (Björn, Ariana, Germán)
- 12.00-13.00 ADVENTSFIKA (BioCenter lunch room)