

## 5th Biofilm Workshop 2018

# “Omic approaches in biofilm research: advances in ecology and ecotoxicology”

11-13 September 2018, Sven Lovén Center – Kristineberg, Sweden

## Keynotes

### **Diatoms metabarcoding to monitor freshwater ecosystems**

Who: Agnès Bouchez, INRA-UMR CARTELE, Thonon, France. [Web-page](#)

Key words: microbial ecology, freshwater ecosystems, biomonitoring, metabarcoding, ecotoxicology

### **Poorly known fungi in natural and engineered biofilms**

Who: Christian Wurzbacher, Technical University of Munich, Germany. [Web-page](#)

Key words: metabarcoding, database gaps, fungal biogeography, third generation sequencing, single-cell barcoding

### **Metabarcoding and metagenomics in periphyton biofilms for ecotoxicology**

Who: Natàlia Corcoll, Dept. of Biological and Environmental Sciences, University of Gothenburg, Sweden. [Web-page](#)

Key words: periphyton, microbial communities, (eco)toxicology, DNA sequencing, Pollution-Induced Community Tolerance (PICT)

### **Microbial interactions exposed - Genomic shortcuts to understand microbial communities**

Who: Stefan Bertilsson, Uppsala University and Swedish University of Agricultural Sciences, Sweden. [Web-page](#)

Key words: Biogeochemical cycles, Aquatic Microbial Ecology, Molecular tools, Water, Environmental Change

### **Recovering 2,032 Baltic Sea microbial genomes by optimized metagenomic binning**

Who: Anders Andersson, KTH Royal Institute of Technology in Stockholm, Sweden. [Web-page](#)

Key words: Shotgun sequencing, microbial communities, bioinformatics and biostatistics

### **Metatranscriptomics for the Ecology and Function of Environmental and Engineered Biofilms**

Who: Mark Dopson, Centre for Ecology and Evolution in Microbial model Systems, Linnaeus University, Sweden. [Web-page](#)

Keywords: Deep biosphere, Baltic Sea sediments, acid sulfate soil, biomining, microbial fuel cells

### **Metaproteomics, trends and opportunities to read-across in environmental assessment**

Who: Susana Cristobal, Dept. of Clinical and Experimental Medicine Cell Biology, Linköping University, Sweden. [Web-page](#)

Keywords: proteomics, metaproteomics, environmental assessment, nanotoxicology, method development

### **Potential and challenges of community metabolomics in ecotoxicological assessment**

Who: Mechthild Schmitt Jansen, Dept. Bioanalytical Ecotoxicology, Helmholtz-Centre for Environmental Research - UFZ, Germany. [Web-page](#)

Key words: community ecotoxicology, periphyton ecology, phytotoxicity, metabolomics, pollution-induced community tolerance