5th Biofilm Workshop 2018
“Omic approaches in biofilm research: advances in ecology and ecotoxicology”
11-13 September 2018, Sven Lovén Center – Kristineberg, Sweden

Talks and speakers

Diatoms metabarcoding to monitor freshwater ecosystems
Who: Agnès Bouchez, INRA-UMR CARRTEL, 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 (eco)toxicology
Who: Natalia 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

Next-generation metaproteomics for complex samples such as biofilms
Who: Jean Armengaud, CEA, Li2D (Laboratory "technological innovations for Detection and Diagnostics"), location: Bagnols-sur-Cèze (near Avignon), France. Web-page
Keywords: metaproteomics; proteogenomics; non-model organisms; interactions; biomarkers

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