



UNIVERSITY OF GOTHENBURG

5th Biofilm Workshop

Omic approaches in biofilm research: advances in ecology and ecotoxicology



11 -13 September 2018

SLC for Marine Infrastructure - Kristineberg, Sweden
Adress: Kristineberg 566, Fiskebäckskil, Sweden

<https://fram.gu.se/Outreach/biofilm-workshop-2018>

Final Programme



VETENSKAPSRÅDET
THE SWEDISH RESEARCH COUNCIL

FORMAS



ETT FORSKNINGSRÅD FÖR HÅLLBAR UTVECKLING
A SWEDISH RESEARCH COUNCIL FOR SUSTAINABLE DEVELOPMENT



NICE

Network of Institutes for Coastal and Estuarine Research

The FRAM Centre
at University of
Gothenburg



Agenda

Day 1. Tuesday, 11 September

9:45	Bus leaves from Gothenburg Central Station to SLC Kristineberg (~1h 40min) <i>Outside Hotel G, Nils Ericssonplatsen 4, Gottenburg (next to central station)</i>
11:00	Registration Open
12:00	Lunch
13:00	Welcome & introduction to the workshop <i>Natàlia Corcoll & Åsa Arrhenius, University of Gothenburg, Sweden</i> <i>Peter Tiselius, Head of the SLC Kristineberg</i>
	SESSION I: METABARCODING Lecture hall
13:30	Metabarcoding and metagenomics in periphyton biofilms for ecotoxicology <i>Natàlia Corcoll, University of Gothenburg, Sweden</i>
14:15	Diatoms metabarcoding to monitor freshwater ecosystems <i>Agnès Bouchez, INRA-UMR CARRETEL, Thonon, France</i>
15:00	Tea & Coffee break and Safety instructions
15:30	Poorly known fungi in natural and engineered biofilms <i>Christian Wurzbacher, Technical University of Munich, Germany</i>
16:15 – 17:15	DISCUSSION GROUPS (DG) Metabarcoding <ul style="list-style-type: none"> • DG 1. Room: Lecture-hall. <i>Chair: A Bouchez, INRA, France. Rapporteur: A Andersson, KTH, Sweden</i> • DG 2. Room: Seminar room 3rd floor. <i>Chair: C Wurzbacher, TUM, Germany. Rapporteur: N Corcoll, UGOT, Sweden.</i>
18:00	Dinner
20:00	Poster Spotlight (PS) Lecture hall <ul style="list-style-type: none"> • Diversity of Bacillus species in Mangrove Ecosystem of Miani Hor, Balochistan Coastline-Pakistan. <i>Syed Rehmat Ullah Shah, Lasbela University of Agriculture, Pakistan.</i> • High-throughput 16S rRNA gene sequencing reveals interactions between multiple stressors on river biofilms under controlled conditions. <i>Romero F, ICRA, Spain.</i> • Striking Against Bacterial Slime on Medical Device Surfaces: Characterization of Mycobacterium chimaera Biofilms on Medical Device Materials. <i>Amarasinghe J, Winchester Engineering and Analytical Center, USA.</i> <p>Poster session (drinks & snacks) Entrance</p>

Day 2. Wednesday, 12 September

	SESSION II: METAGENOMICS & METATRANSCRIPTOMICS	Lecture hall
08:00	Introduction 2nd day workshop	
08:15	Microbial interactions exposed - Genomic shortcuts to understand microbial communities <i>Stefan Bertilsson, Uppsala University, Sweden</i>	
09:00	Metagenomics of the Baltic Sea: Links between the environment and the (meta)genome <i>Anders Andersson, KTH Royal Institute of Technology in Stockholm, Sweden</i>	
09:45	Tea & Coffee break	
10:15	Metatranscriptomics for the Ecology and Function of Environmental and Engineered Biofilms <i>Mark Dopson, Linnaeus University, Sweden</i>	
11:00	DISCUSSION GROUPS (DG) - METAGENOMICS & METATRANSCRIPTOMICS <ul style="list-style-type: none"> • DG 1. Room: Seminar room 3rd floor <i>Chair: S Bertilsson, UU, Sweden. Rapporteur: C Bonnineau, IRSTEA, France</i> • DG 2. Room: Library 2nd floor <i>Chair: M. Dopson, LNU, Sweden. Rapporteur: K Fenner, Eawag, Switzerland</i> 	
12:00	Lunch & tour at the station	
	SESSION III: METAPROTEOMICS & METABOLOMICS	
13:00	Metaproteomics, trends and opportunities to read-across in environmental assessment <i>Susana Cristobal, Linköping University, Sweden</i>	
13:45	Potential and challenges of community metabolomics in ecotoxicological assessment <i>Mechthild Schmitt Jansen, UFZ, Germany</i>	
14:30	Tea & Coffee break	
15:00	DISCUSSION GROUPS (DG) - METAPROTEOMICS & METABOLOMICS <ul style="list-style-type: none"> • DG 1. Room: Library 2nd floor <i>Chair: S Cristobal, LUI, Sweden. Rapporteur: H Guasch, UdG, Spain.</i> • DG 2. Room: Seminar room 3rd floor <i>Chair: M Schmitt-Jansen, UFZ, Germany. Rapporteur: S Lips, UFZ, Germany</i> 	
16:00	Poster Spotlight	Lecture hall
	<ul style="list-style-type: none"> • Ecotoxicogenomics as a tool to assess multiple-stress responses in fluvial systems. <i>Guasch H, University of Girona, Spain.</i> • Implementing OMICs responses in risk assessment processing. <i>Larras F, UFZ, Germany.</i> • How can temperature modulate herbicides impact on the freshwater diatoms <i>Gomphonema gracile</i> and <i>Nitzschia palea</i>? <i>Demailly F. Irstea, France.</i> • Anchoring of aquatic biofilm metabolomics to ecological responses. <i>Lips S, UFZ, Germany.</i> 	
	Poster session	Entrance
17:00	Social activity	
19:00	Dinner	

Day 3: Thursday, 13 September

	SESSION 3: DISCUSSION GROUPS OUTCOMES	Lecture hall
9:00	Introduction 3rd day Workshop FINAL DISCUSSIONS IN THE GROUPS preparation of presentations	
9:45	Coffee & tea served	
10:00	Report from Discussion Group 1	
10.30	Report from Discussion Group 2	
11:00	Closing remarks & Announcements <i>N. Corcoll & Å. Arrhenius</i>	
12:00	End / Farewell Lunch	
13: 30	Bus to Gothenburg Central Station (~1h 40min)	