Electromicrobiology 2019

21-22 March 2019 Aarhus, Denmark

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Program

THURSDAY 21 MARCH 2019

08:15-09:00	Registration and poster set-up	
09:00-09:15	Welcome by the organisers	
SESSION 1: ENVIRONMENT - CHAIR: Emily J. Fleming, California State University, Chico		
09:15-10:00	Lars Peter Nielsen, Aarhus University (keynote) What it takes to be a cable bacterium	
10:00-10:15	Annette Rowe, University of Cincinnati Investigating the electrophysiology and genetics of rock (and electrode) eating microbes	
10:15-10:40	Katherine McMahon , University of Wisconsin-Madison (invited) <i>Extracellular electron transfer may be an overlooked contribution to pelagic respiration in humic-rich freshwater lakes</i>	
10:40-11:10	Coffee break	
11:10-11:25	Francisco J. Cervantes, IPICYT Role of humic substances in global biogeochemical cycles	
11:25-12:10	Ryuhei Nakamura , Tokyo Institute of Technology (keynote) Deep-Sea Electrochemistry and Its Implication for the Origin of Life Theory	
12:10-14:00	Lunch break	

SESSION 2: MOLECULES - CHAIR: Jeffrey Gralnick, University of Minnesota	
14:00-14:25	Derek Lovley , University of Massachusetts (invited) Diverse Protein Nanowires in Diverse Microorganisms with Diverse Applications

14:25-14:40	Bernd Giese , University of Fribourg Time resolved ET experiments with peptides and G. sulfurreducens
14:40-15:05	Allon Hochbaum, University of California, Irvine (invited) Biomolecular Principles of Electronic Conductivity in Protein Nanowires
15:05-15:35	Coffee break
15:35-16:00	David Beratan, Duke University (invited) Electron transport mechanisms in biology
16:00-16:15	Lenny Tender , Naval Research Laboratory <i>Phenazine-Based Electron Transfer and Retention in Pseudomonas aeruginosa Biofilms</i>
16:15-18:15	POSTER SESSION I & Drinks
10.10-10.10	I OTER SESSION I & DITING
18:30-	Dinner

FRIDAY 22 MARCH 2019

SESSION 3: MOLECULES - CHAIR: Lo Gorton, Lund University		
08:30-08:55	Tom Clarke , University of East Anglia (invited) The Structural Basis of Transmembrane Electron Conduits	
08:55-09:10	Bridget Conley , University of Minnesota Mechanisms of Extracellular Electron Transport in Gammaproteobacteria	
09:10-09:25	Catarina M. Paquete, ITQB NOVA How Gram-positive bacteria transfer electrons to an electrode: the role of OcwA	
09:25-09:50	Filip Meysman, Antwerp University (invited) Conduction in Cable Bacteria	
09:50-10:05	Group photo	
10:05-12:00	POSTER SESSION II & Coffee	
12:00-14:00	Lunch break	

SESSION 4: ORGANISMS - CHAIR: Jo Philips, Aarhus University	
14:00-14:45	Sarah Glaven, Naval Research Laboratory (keynote) Biocathodes: from field to technology, and back again
14:45-15:10	Amelia-Elena Rotaru (invited) Conductive particles hot-wire syntrophic consortia
15:10-15:25	Bo Barker Jørgensen , Aarhus University Concurrent methane production and oxidation by ANME-1 archaea through direct interspecies electron transfer?
15:25-16:00	Coffee break

SESSION 5: ORGANISMS - CHAIR: Eric Boschker, Delft University of Technology		
16:00-16:15	Lori Zacharoff , University of Southern California Biophysical and Electrochemical Characterization of the Redox-active Membrane Vesicles from Shewanella oneidensis MR-1	
16:15-16:30	Miriam Rosenbaum, Leibniz Institute for Natural Product Research and Infection Biology Hans Knöll Institute (HKI) Understanding and engineering phenazine-based electroactivity for biotechnological applications	
16:30-16:45	Lucinda Elizabeth Doyle, Nanyang Technological University Deep-sea pressure affects the redox potential of flavins and cytochromes in Shewanella	
16:45-17:10	Daniel Bond , University of Minnesota (invited) How Geobacter shifts electron transfer pathways in response to environmental redox potential	
17:10-17:25	Closing remarks	
17:45-	Buffet and goodbye	





