

Thursday, August 21, 2008, 8:30-10:30am

Growing the Recalcitrant

Convenors: Yoichi Kamagata and Steve Giovannoni

- Building a Better Petri Dish - microbial growth chips microengineered onto porous aluminium oxide
Colin Ingham, Department of Medical Microbiology and Infection Control, Hospital Jeroen Bosch, The Netherlands
- Culturing organisms based on syntrophy
Yoichi Kamagata, National Institute of Advanced Industrial Science and Technology (AIST), Japan
- Culturing phylogenetically-diverse soil bacteria
Peter Janssen, Agresearch, New Zealand
- Culturing the oligotrophs from diverse marine environments using a dilution-to-extinction method
Jang-Cheon Cho, Inha University, KOREA

Bioprocessing

Convenors: Wen-Tso Liu and Korneel Rabaey

- A metagenomic insight into the microbial diversity and function of thermophilic methanogenic consortium degrading terephthalate
Wen-Tso Liu, National University of Singapore, Singapore
- Bio-electrochemical systems: microbial populations generating electrical current and beyond
Korneel Rabaey, The University of Queensland, Australia
- Ecosystem engineering for bioplastic production
Mark van Loosdrecht, Delft Technical University, The Netherlands

Novel Technologies and Methods - Functional Community Analysis

Convenors: Robert Hettich and Mary Lidstrom

- Dissection of composition and function of the human gut microbiota using multiphasic molecular approaches
Janet Jansson, Swedish University of Agricultural Sciences, Sweden
- MS-Based Proteogenomics Measurements Reveal Insight into the Activities and Functions of Natural Microbial Communities
Robert Hettich, Oak Ridge National Laboratory, USA
- Microfluidics and the analysis of single cells from the environment
Jared Leadbetter, California Institute of Technology, USA
- Coupling Function to Phylogeny Via Single-cell Phenotyping
Mary Lidstrom, University of Washington, USA

Coral Microbial Ecology

Convenors: David Bourne and Eugene Rosenberg

- The Black Band Disease Microbial Consortium – Physiological Groups and Toxin Producers
Laurie L. Richardson, Department of Biological Sciences, Florida International University, Miami USA
- Beneficial coral microbes: interactions with corals and dinoflagellates
Kim Ritchie, Mote Marine Laboratory, Florida USA
- Microbial Ecology of Pseudopterogorgia Americana
Garriet W. Smith, Department of Biology and Geology, University of South Carolina Aiken, USA
- Corals and their associated microbiota - Implications for Health, Bleaching and Disease
David Bourne, Australian Institute of Marine Science, Australia

Global Climate Change

Convenors: Paul Falkowski and Joan Rose

- The Complexities of Climate, Ecosystems and Water Quality
Joan Rose, Michigan State University, USA
- Electrons, oxygen, and biogeochemical feedbacks in climates past, present and future
Paul Falkowski, Rutgers University, USA
- Title TBC
Erin Lipp, University of Georgia, USA

New Vistas in Microbial Extremes

Convenors: Rick Cavicchioli and Ken Stedman

- Everywhere Extreme Viruses: Biogeography, Diversity and Antiquity
Ken Stedman, Portland State University, USA
- Loving the cold: the life and times of the Antarctic archaeon, *Methanococcoides burtonii*
Rick Cavicchioli, University of New South Wales, Australia
- Red hot genomics - lessons from the *Galdieria sulphuraria* genome project
Andreas Weber, Heinrich-Heine-University, Duesseldorf, Germany
- Extremely sweet: Protein glycosylation in Archaea
Jerry Eichler, Ben Gurion University of the Negev, Israel