

Tuesday, August 19, 2008, 8:30-10:30am

Modelling and Theory in Microbial Ecology

Convenors: Tom Curtis and Tom McMeekin

- Title TBC
Bill Sloan, University of Glasgow, UK
- Modelling microbial ecology in foods: balancing empiricism and mechanism
Tom Ross, University of Tasmania, Australia
- Evolution of cooperation and communication in spatially complex systems
Jan-Ulrich Kreft, University of Birmingham, UK

Biogeochemical and Elemental Cycles

Convenors: Mike Jetten and Derek Lovley

- Denitrification revisited - facts and fiction in biological N₂ production
Marc Strous, Radboud University Nijmegen, The Netherlands
- Exploring methanotrophy in acidic northern wetlands: the never ending story
Svetlana Dedysh, Russian Academy of Sciences, Russia
- The deep ocean Fe cycle
Katrina Edwards, University of Southern California, USA
- Molecular strategies for diagnosing the in situ metabolic status of dissimilatory metal reducers in subsurface environments
Derek Lovley, University of Massachusetts, USA

Novel Technologies and Methods – Metagenomics

Convenors: Ed DeLong and Phil Hugenholtz

- Flow sorting FISH-targeted microbial populations for shotgun sequencing
Phil Hugenholtz, Dept of Energy, Joint Genome Institute, USA
- Metatranscriptomic analysis of microbial assemblages in the ocean
Gene Tyson, Massachusetts Institute of Technology, USA
- Metagenomics of coastal marine sediments
Marc Mussmann, University of Vienna, Austria
- Title TBC
Ian Paulsen, Macquarie University, Australia

Microbial Communities in the Oceans

Convenors: Rudi Amann and Jed Fuhrman

- Inferring marine microbial system function from temporal and spatial patterns.
Jed Fuhrman, University of Southern California, USA
- Microbial Oceanography: A Sea of Opportunity
David Karl, University of Hawaii, USA

- Microbial communities in and below the dark ocean: their functional diversity and activity
Ken Takai, Japan Agency for Marine-Earth Science and Technology, Japan
- Flavobacteria: news on "old" marine bacteria
Rudi Amann, Max Planck Institute for Marine Microbiology, Germany

The Human Microbiome

Convenors: **David Relman** and **Liping Zhao**

- Integration of gut metagenomics and metabonomics for understanding human organismal level complexity in disease and health
Liping Zhao, Shanghai Jiao Tong University, China
- Patterns of diversity in the human microbiota
David Relman, Stanford University, USA
- Title TBC
Joel Dore, INRA Centre of Jouy-en-Josas, France
- Microbial ecology of the human and mouse gut
Ruth Ley, Washington University, USA