

CROSS DISCIPLINARY GENOMICS

From genome to ecosystem

2d Symposium
Paris October 25-26 2012

Campus Jussieu – Amphithéâtre Durand – Bât. Esclangon – 4 place Jussieu – 75005 Paris

Thursday 25th October 2012 – 14h00- 17h00

A WORD OF INTRODUCTION

14h00-14h10 **ANGELA FALCIATORE** – *Université Pierre et Marie Curie, Paris*

AFTERNOON SESSION

Chair: Angela Falciatore – Frédéric Devaux

14h10-15h00 **JED FUHRMAN**: *University of Southern California - McCulloch-Crosby
Chair of Marine Biology, Los Angeles, US*

Temporal and spatial patterns of microbial communities:
what do they tell us about genomes?

15h00- 15h50 **HERVE MOREAU**: *Université Pierre et Marie Curie, Observatoire
Océanologique de Banyuls (OOB) - Biologie Intégrative des Organismes
Marins, Banyuls, France*

Phytoplankton: an invisible giant fuelling life on the Earth

15h50 – 16h10 *Coffee break*

16h10 – 17h00 **MARK COCK**: *Université Pierre et Marie Curie, Station Biologique de Roscoff
- The Marine Plants and Biomolecules Laboratory - Roscoff, France*

Ectocarpus, a genomic and genetic model to explore brown
algal biology

Friday 26st October 2012 – 9h30 – 17h30

MORNING SESSION:

Chair: Marco Cosentino Lagomarsino – Martin Weigt

- 9h30 – 10h20 **ROSALIND ALLEN:** *University of Edinburgh - School of Physics and Astronomy, Edinburgh, Scotland*
Predictability and Unpredictability in Microbial Ecosystem Development
- 10h20 – 11h10 **TODD L. PARSONS:** *Université Pierre et Marie Curie - Laboratoire de Probabilités et Modèles Aléatoires - Paris, France*
From Population Genetics to Population Genomics: the Evolutionary Consequences of Neutrality and Epistasis
- 11h10 – 11h30 *Coffee break*
- 11h30 – 12h20 **CHRISTOPHER QUINCE:** *Biological Systemes Modeling - School of Engineering - Glasgow University, Glasgow, Scotland*
Bayesian Hierarchical Models for Microbial Community Analysis

Lunch

AFTERNOON SESSION:

Chair: Alessandra Carbone – Gilles Fischer

- 13h45 – 14h35 **SOREK ROTEM:** *Weizmann Institute - Microbial Genomics - Rehovot, Israel*
Genomics of phage-bacteria interactions in the human gut
- 14h35 – 15h20 **SUSAN HOLMES:** *Statistics Department and BioX - Stanford University, Stanford, US*
Statistical and Computational Challenges from the Human Microbiome
- 15h20-15h45 *Coffee break*
- 15h45 – 16h35 **PURIFICACION LOPES-GARCIA:** *Université Paris-Sud – Unité d'Ecologie, Systématique et Evolution - Orsay, France*
Metagenomics of deep-sea archaea reveals extensive inter-domain horizontal gene transfer

Scientific Organizers: Alessandra CARBONE, Marco COSENTINO LAGOMARSINO, Frédéric DEVAUX, Angela FALCIATORE, Gilles FISCHER, Martin WEIGT



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