

CROSS DISCIPLINARY GENOMICS

Genomics and Microbial Communities

5th Symposium

Paris November 5-6, 2015

Organization : Laboratory of Computational and Quantitative Biology, Institut de Biologie Paris Seine



Sponsors : UPMC Engineering Research Unit, UPMC Biology Research Unit, Institut des Systèmes Complexes Paris-Ile-de-France, Aviesan / INSERM / CNRS, Institut Universitaire de France, European Marine Biological Research Centre



Thursday 5th November 2015 – 14h00- 17h10

ENSCP Chimie ParisTech – Amphithéâtre Moissan – 11 , rue Pierre et Marie Curie –Paris

A WORD OF INTRODUCTION

14h00-14h10

Angela Falciatore – Laboratory of Computational and Quantitative Biology (LCQB), Institute of Biology Paris-Seine (IBPS), Université Pierre et Marie Curie, Paris

SESSION 1: EVOLUTIONARY ASPECTS OF MICROBIAL COMMUNITIES

Chair:

Gilles Fischer, LCQB, IBPS Université Pierre et Marie Curie, Paris

14h10-14h50

HELENE MORLON – *Institut de Biologie de l'ENS, Paris*

Macroevolution in the microbial world

14h50- 15h30

IGOR ROUZINE – *UCSF School of Medicine, USA*

An Evolutionary Role for HIV Latency in Enhancing Viral Transmission

15h30 – 16h00

Coffee break

16h00-16h40

THOMAS MOCK – *University of East Anglia, Norwich, UK*

The evolution of diverged alleles in a polar diatom to cope with extreme and highly variable environmental conditions.

16h40-17h20

CHRIS FIELD – *University of Basel, Switzerland*

Joint genotype/phenotype evolution of E. coli in the wild.

Friday 6th November 2014 – 9h30 – 17h10

SESSION 2: ARTIFICIAL SYSTEMS

Chair: Alessandra Carbone, LCQB, IBPS Université Pierre et Marie Curie, Paris

9h30 – 10h10

ALISON SMITH – *University of Cambridge, UK*

Vitamins and the evolution of algal-bacterial mutualisms

10h10 – 10h50

YUTAKA YAWATA – *ETH, Zurich, Switzerland*

Ecological differentiation among bacteria foraging on marine particles

10h50 – 11h20

Coffee break

SESSION 3: ECOLOGY OF MICROBIAL COMMUNITIES

Chair: Martin Weigt, LCQB, IBPS Université Pierre et Marie Curie, Paris

11h20 – 12h00

SILVIA ACINAS – *Institute of Marine Sciences (ICM)-CSIC, Barcelona, Spain*

Microbial Diversity and Function at Global Scale: How far are we?

12h00 – 13h30

LUNCH

ENSCP Chimie ParisTech – **Amphithéâtre Chaudron** – 11, rue Pierre et Marie Curie – Paris

13h30 – 14h10

ASSAF VARDI – *Weizmann Institute, Rehovot, Israel*

Chemical Arms Race at Sea”: Host-virus interactions during algal blooms in the ocean

14h10 – 14h50

ROLAND MARMEISSE – *Université Lyon 1 - Villeurbanne, France*

The treasure-trove of the soil eukaryotic metatranscriptome

14h50-15h10

Coffee break

SESSION 4: FUNCTIONAL ASPECTS OF MICROBIAL COMMUNITIES

Chair: Delphine Salort LCQB, IBPS Université Pierre et Marie Curie, Paris

15h10 – 15h50

KARINE CLEMENT – ICAN, APHP, UPMC, Paris, France

Gut Microbiome & Human Health: Focus on Metabolic Diseases

15h50 – 16h30

COLOMBAN DE VARGAS – UPMC, Station biologique de Roscoff, France

Cracking the eukaryotic module of marine plankton ecosystems using DNA metabarcoding and fluorescent imaging

16h30 – 17h10

DANIELE IUDICONE – Stazione Zoologica Anton Dohrn, Napoli, Italy

A holistic approach to the study of the marine plankton response to environmental changes

A WORD OF CONCLUSION

17h10-17h15

Marco Cosentino Lagomarsino, LCQB, IBPS Université Pierre et Marie Curie, Paris