

Workshop on “Next Generation Sequencing Technologies & Informatics tools for
studying Marine Biodiversity & Adaptation”

1 – 3 October 2012

Institute of Marine Biology and Genetics
Hellenic Centre for Marine Research (HCMR), Crete, Greece

Monday 1 October 2012

Chairperson: Hooman Moghadam

9.00 –9.30	Welcome & Introduction Antonios Magoulas & Georgios Kotoulas, Hellenic Centre for Marine Research, Greece
9.30 –10.15	Next-Generation Marine Biodiversity and Adaptation – an Overview Karim Gharbi, “GenePool” high-throughput sequencing hub, University of Edinburgh, UK
10.15 –11.00	Genotyping-by-Sequencing Techniques and their Application to the Study of Biodiversity and Adaptation Karim Gharbi, “GenePool” high-throughput sequencing hub, University of Edinburgh, UK
11.00-11.30	<i>Coffee break</i>
11.30-13.00	A suite of new tools for large-scale analysis of next-generation sequencing data Alexis Stamatakis, Heidelberg Institute for Theoretical Studies, Germany
13.00-14.30	<i>Lunch break</i>
Chairperson: Antonios Magoulas	
14.30-15.30	Computational methods for learning from (meta-)genomes Alice McHardy, Heinrich-Heine University, Dusseldorf, Germany
15.30-16.30	Systems Genetics: a systems biology approach to understand how genetic variation impacts phenotypic diversity Emmanouil (Manolis) Dermitzakis, School of Medicine, University of Geneva
16.30-17.00	<i>Coffee break</i>
17.00-18.00	Large scale approaches to genome diversity and function Emmanouil (Manolis) Dermitzakis, School of Medicine, University of Geneva

Tuesday 2 October 2012

Chairperson: Panagiotis Kasapidis

9.00 -10.30	DNA MetaBarcoding Pierre Taberlet, Laboratoire d'Ecologie Alpine, CNRS, France
10.30 -11.00	<i>Coffee break</i>
11.00-12.30	DNA Metabarcoding: too much data for a spreadsheet Eric Coissac, Laboratoire d'Ecologie Alpine, CNRS, France
12.30-13.30	The Tara Oceans expedition Chris Bowler, Ecole Normale Supérieure, Paris
13.30-15.00	<i>Lunch break</i>
Chairperson: <i>Karim Gharbi</i>	
15.00-16.00	Examining the genetic basis of adaptive divergence in African cichlids Kevin Parsons, Institute of Biodiversity Animal Health and Comparative Medicine, University of Glasgow. UK
16.00-16.30	<i>Coffee break</i>
16.30-17.30	Application of next generation sequencing methodologies in economic important fish species Elena Sarropoulou, Hellenic Centre for Marine Research, Greece
17.30-18.30	Sex specific selection & convergent evolution of gene expression Hooman Moghadam, Hellenic Centre for Marine Research, Greece
20.00-23.00	<i>Workshop dinner</i>

Wednesday 3 October 2012

Chairperson: Georgios Kotoulas

9.00 -10.00	Genomic approaches to understanding host-virus interactions in the marine system Declan Schroeder, Marine Biological Association, Plymouth, UK
10.00-11.00	Inferring genotype-phenotype relationships in the evolution of RNA viruses Alice McHardy, Heinrich-Heine University, Dusseldorf, Germany
11.00 -11.30	<i>Coffee break</i>
11.30-12.30	More genome prefixes: pan- and paleo- genomes Christos Ouzounis, Centre for Research and Technology Hellas (CERTH), Greece
12.30-13.30	Diatome Genomics Chris Bowler, Ecole Normale Supérieure, Paris
13.30-15.00	<i>Lunch break</i>
Chairperson: Alice McHardy	
15.00-16.00	Environmental and Evolutionary Genomics of Microbial Algae. Power and Challenges of Metagenomics Gwenael Piganeau, Observatoire Oceanologique de Banyuls sur mer, France
16.00-17.00	Genomic Insights Into the Biology of the Smallest photosynthetic Eukaryote, <i>Ostreococcus tauri</i> Gwenael Piganeau, Observatoire Oceanologique de Banyuls sur mer, France
17.00-17.30	<i>Coffee break</i>
17.30-18.30	Round Table / Conclusions