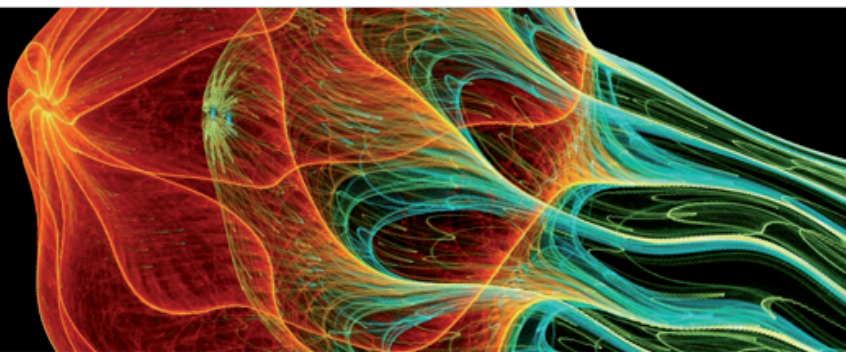


FIRST INTERNATIONAL COURSE IN

# MARINE GENOMICS:

FROM ECOLOGY TO BIOTECHNOLOGY

OCT 19-20, 2011



It is our great pleasure to invite you to the First International Course in "Marine Genomics: From ecology to biotechnology", to be held in Concepcion, Chile, on 19-20 October, 2011, as part of the activities of the Austral Summer Institute XII (ASI XII) organized by the Department of Oceanography and the Center for Oceanographic Research in the eastern South Pacific (FONDAP COPAS) of the University of Concepción.

**The course will aim to get novel insights into Marine Genomics and technologies used to identify the differences among marine organisms.**

Genomic analyses in non-model species will be reviewed to explain how these variations have adaptive importance as a pivotal issue in ecological genomics and biotechnology. In this sense, **a mini-course** "Data mining and genotypification of Single Nucleotides Polymorphisms (SNP): linking genotypes to phenotypes of marine organisms" will be carried out at the Biotechnology Center facilities, University of Concepcion, on October 21.

## Topics

- Genome biodiversity: phylogeography and molecular ecology.
- Mining of new genomic markers: EST-SSR and SNP discovery.
- Functional genomics: genetic response to stress and disease in aquatic organisms.
- Metagenomics of marine microorganisms.
- Proteomics: new insight in marine organisms.
- NGS technology and bioinformatics.

**Lecturers** (Program committee Co-Chairs: Anne-Marie Genevière and Cristian Gallardo-Escárate)

- François-Yves Bouget, Observatoire Océanologique de Banyuls sur Mer, Université Pierre et Marie Curie/CNRS, France.
- Mark Cock, Station Biologique de Roscoff, Université Pierre et Marie Curie/CNRS, France.
- Héctor Escrivá, Observatoire Océanologique de Banyuls sur Mer, Université Pierre et Marie Curie/CNRS, France.
- Cristian Gallardo, Universidad de Concepción, Chile.
- Anne-Marie Genevière, Observatoire Océanologique de Banyuls sur Mer, Université Pierre et Marie Curie/CNRS, France.
- Frithjof Kuepper, Scottish Marine Institute, Scotland.
- Philippe Lebaron, Observatoire Océanologique de Banyuls sur Mer, Université Pierre et Marie Curie/CNRS, France.
- Ian Probert, Station Biologique de Roscoff, Université Pierre et Marie Curie/CNRS, France.
- Osvaldo Ulloa, Universidad de Concepción, Chile.

## Contact and Application Form

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Visit: <http://www2.udec.cl/~lgba/mgenomics.html>

FIRST INTERNATIONAL COURSE IN MARINE GENOMICS SPONSORED BY:



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