

# 11<sup>th</sup> Summer Course on Marine Ecological and Evolutionary Genomics MEEG2015

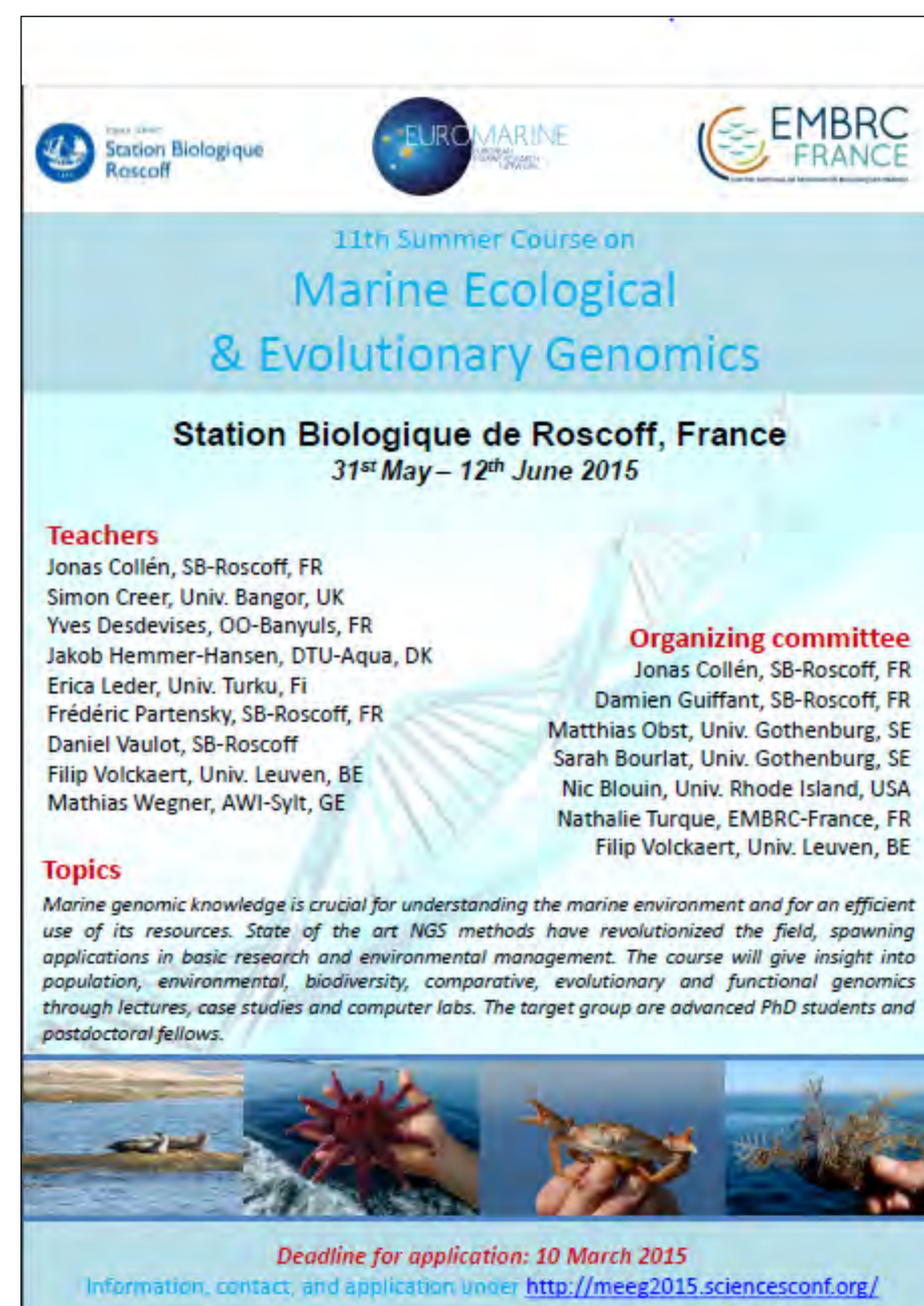
Roscoff - 31 May – 12 June 2015

## Our mission

Genomic knowledge is crucial for understanding the marine environment and for an efficient use of its resources. New sequencing methods have revolutionized the field, spawning applications in basic research and environmental management. The course gives insight into population, environmental, biodiversity, comparative, evolutionary and functional genomics through lectures, case studies and computer labs. It takes place at the Biological Station, a vibrant research community of scientists and support personnel, located in Roscoff, Brittany, France.

The course includes the following topics:

- Genomics - next generation sequencing, database searching, basic skills in data handling and bioinformatics
- Population genomics – diversity, structure, connectivity and gene flow, assignment, effective population size, population dynamics, adaptive variation, genotyping by sequencing
- Environmental genomics - environment – genome interactions, ecogenomics, metagenomics and metagenetics
- Functional genomics – genome structure, molecular evolution at the functional level, genomic architecture, functional networks
- Comparative genomics - whole genome comparisons, concatenated phylogenies, genome organization, annotating genomic information, co-evolution



## The History

The course of 2015 was the 11<sup>th</sup> rendition of the course. During the last nine years it has been organised in Roscoff. We have dynamic group of teachers from various European universities and research institutions that are renewed occasionally in order to keep the course vibrant and up to date. To insure the quality of the course we rely on an international organizing committee. Funding has varied with the years ; the 11<sup>th</sup> edition was mainly supported by EuroMarine. EMBRC France and the *Station Biologique de Roscoff* also provided support.

## Our sponsors



## Target audience

PhD students (at least in their second year) and junior postdocs with a solid knowledge in phylogenetics or population genetics.

18 participants are selected on the following criteria:

1. Relevance of the course for their PhD or post-doc project
2. Background and experience

We aim at training people with different research backgrounds; not more than one person per institute will be considered. We implement a gender policy.



## Teaching program

The course is taught during two weeks typically in May or June. Usually, one teacher is responsible for a day with lectures given in the mornings and computer labs in the afternoons. In addition, students present their research projects. Student interaction is a key focus of the course in order to facilitate future cooperation between students.

48 applicants from 25 different countries

18 students selected from:

- |         |                    |
|---------|--------------------|
| Belgium | Greece             |
| Brazil  | Netherlands        |
| Chile   | Norway             |
| Croatia | Spain (2)          |
| Denmark | United Kingdom (3) |
| France  | USA (2)            |
| Germany |                    |



9 lecturers from:

- Belgium
- Denmark
- Finland
- France
- Germany
- United Kingdom

On 15 February 2016 we announce this year's course from 13-25 June 2016!

## For more information, please contact :

- Filip Volckaert, Laboratory of Biodiversity and Evolutionary Genomics, Univ. Leuven, filip.volckaert@bio.kuleuven.be
- Jonas Collén and Damien Guiffant, Station Biologique de Roscoff, France, collen@sb-roscoff.fr