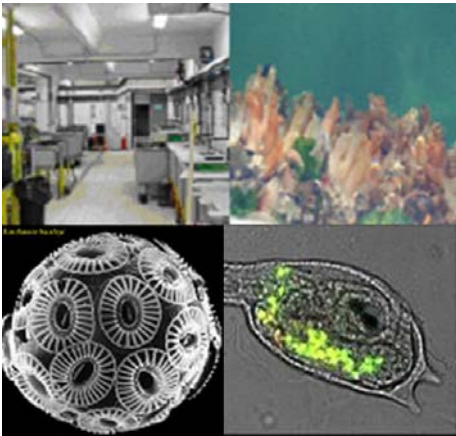


# EUROPEAN MARINE BIOLOGICAL RESOURCE CENTRE (EMBRC)

## The Facility

**This distributed pan-European infrastructure provides access to model marine organisms and related genomic resources. It will promote access for both research and training. The main coastal marine laboratories will be embedded within this RI to provide access to model marine organisms and their ecosystems together with modern technology and 'omic' platforms.**



## Biomedicine and Life Sciences

Estimated construction cost	100 M €
First open access foreseen	2013

## Background

Rapid progress in the field of genomics has transformed the nature of European marine laboratories over the last 10 years by opening up new opportunities and additional model organisms for basic and applied research. Institutes

founded in the 19th century are now developing and applying new technologies and facilities. This process is enabling the delivery of services to an increasing numbers of scientists who have turned to marine model organisms to investigate fundamental questions in biology.

EMBRC has its roots in previous European networks of excellence (Marine Genomics Europe and MarBEF) and in the recently funded FP7 I3 infrastructure ASSEMBLE. Hence, this proposal starts from a network of marine stations but promotes a completely new structure: a single focused and fully integrated infrastructure with a single entry point that will provide the motor to project European Marine Biological and Basic research into the second half of the 21 century.

## What's new? Impact foreseen?

This project aims to build a large scale pan-European Infrastructure with a major capacity for access to or provision of marine model organisms connected to modern "omic" technologies. By offering direct access to the different marine ecosystems in European coastal waters, EMBRC will align genomic and ecosystems research within a single research infrastructure.

EMBRC will allow access to presently unknown biological mechanisms which can in turn be used for biomedicine or for biotechnologies. The infrastructure will capitalize on the complementarity and interoperability between marine institutes. Integrating actions between partners will involve i) improving instrumentation for access to the biodiversity of coastal ecosystems (stressing genomic technology), ii) improving the production, maintenance, provision and utilization of key marine

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models for biological sciences and  
iii) promoting the functional analysis  
of ecological and biological models,  
using modern 'omic' and  
computational based approaches.

EMBRC will be governed by a board  
representing all partners. A unique  
access point for the infrastructure  
with a dedicated management team  
and an e-interface for acquisition of  
requests of access and the  
exchange of data and information  
will be built in Naples. Access will be  
in 'open-mode'.

## **Timeline and estimated costs.**

Nine Marine Institutes located in the  
UK, France, Italy, Portugal,  
Germany, and Sweden, are  
committed to a rapid process of  
convergence leading to a single  
European Entity We are seeking  
partnership with at least one marine  
station in the Baltic and another in  
the Eastern Mediterranean to  
provide a more comprehensive  
coverage of European Coastal  
Ecosystems and Model Organisms.

Currently all partners in this proposal  
are carrying out research and  
providing limited access in the areas  
indicated above. A great deal of  
economy in effort and cost will be  
achieved by upgrading existing  
facilities at a pan-European rather  
than at national levels. Such facilities  
will be operated by EMBRC.

Preparatory Phase Years 1-2 (10  
M€).

Construction Phase Years 3-8 (100  
M€).

Operation Phase Years 5 onwards  
(60M€/year).

Website. [www.embrc.eu](http://www.embrc.eu)