
 Joining together scientific communities
Establish Europe's lead in marine genomics





Marine Genomics Europe


Reshaping Marine Biology


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www.marine-genomics-europe.org
Contract: 505403
PRIORITY [1.1.6]
[Sustainable Development, Global Change and
Ecosystems]

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What is a NoE in FP6?

- “...aimed at strengthening scientific and technological excellence on a particular research topic by integrating at European level the critical mass of resources and expertise ...”
- “... expertise will be networked around a joint **programme of activities** aimed primarily at creating a progressive and durable **integration of research capacities** of network partners while at the same time advancing knowledge on the topic.”

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MGE Composition

- 44 partners
- 16 countries : Belgium, Chile, Denmark, France, Germany, Greece, Holland, Iceland, Israel, Italy, Norway, Poland, Portugal, Spain, Sweden, UK
- 3 SME
- >300 researchers
- 10 million euro, 4 years

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General Objectives of MGE

- To promote the use of genomics and proteomics throughout the main classes of marine biological models
- To integrate the scientific community around a few, ambitious, whole genome sequencing projects - "flagships" for the NoE and enhance European visibility

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General Objectives of MGE


- To facilitate the access to large core facilities, through the sharing of genomic platforms
- To develop a comprehensive and integrated bioinformatics project
- To promote training and education
- To carry out excellence spreading activities

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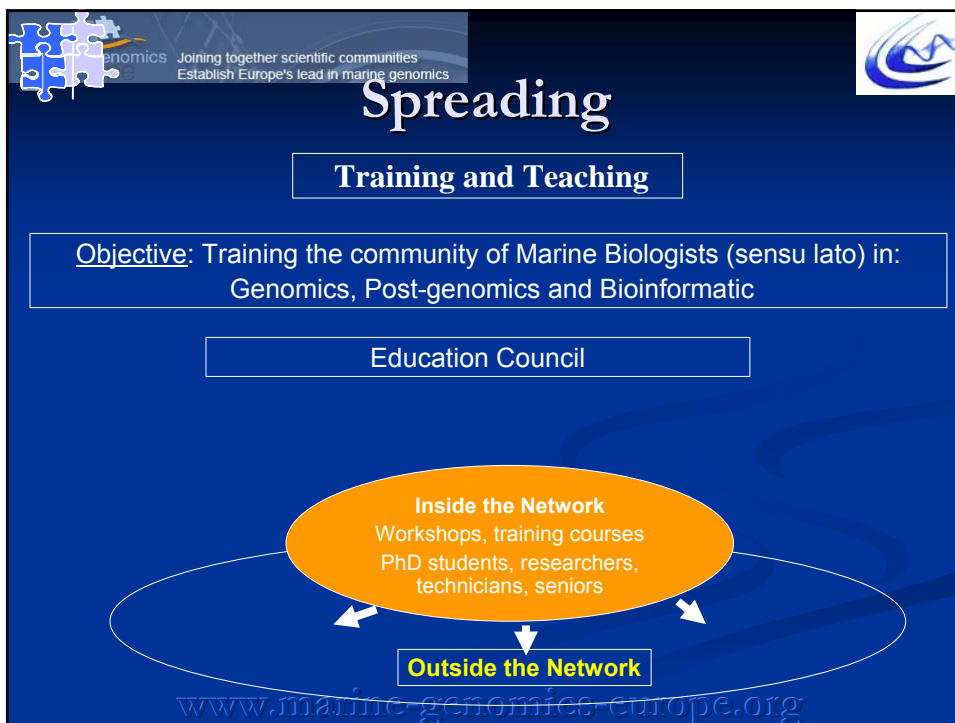
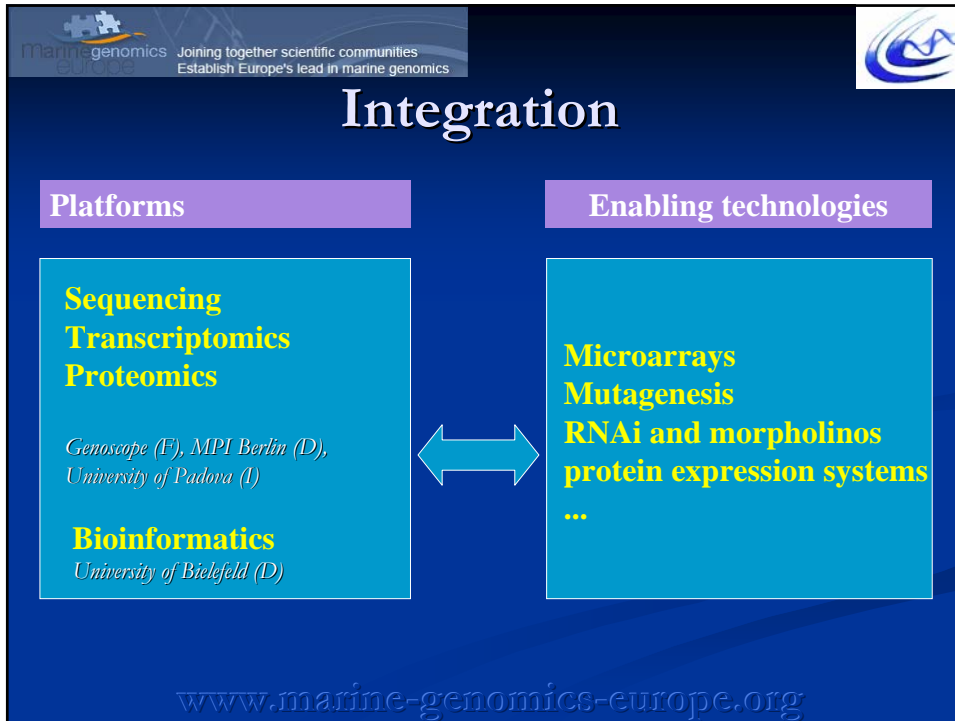

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General Structure of JPA

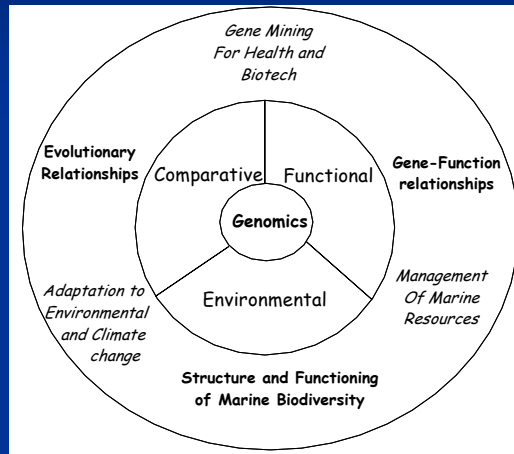
	J.E.R	Integration	Spreading	
Biological Model	Comparative Genomics	Transcriptomics Proteomics	Training	Science Community
Ecological Model	Functional Genomics	Sequencing / Genotyping	Workshop	Companies
Economical Model	Environmental Genomics	Enabling Technologies	Teaching	Policy Makers
			Identity building	Society
			Communication	
 Archae Prokarya Eukarya Marine Biodiversity	Virtual Laboratory	Bioinformatics Platforms	Knowledge Management System	Knowledge portfolio for various end-users

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Jointly Executed Research



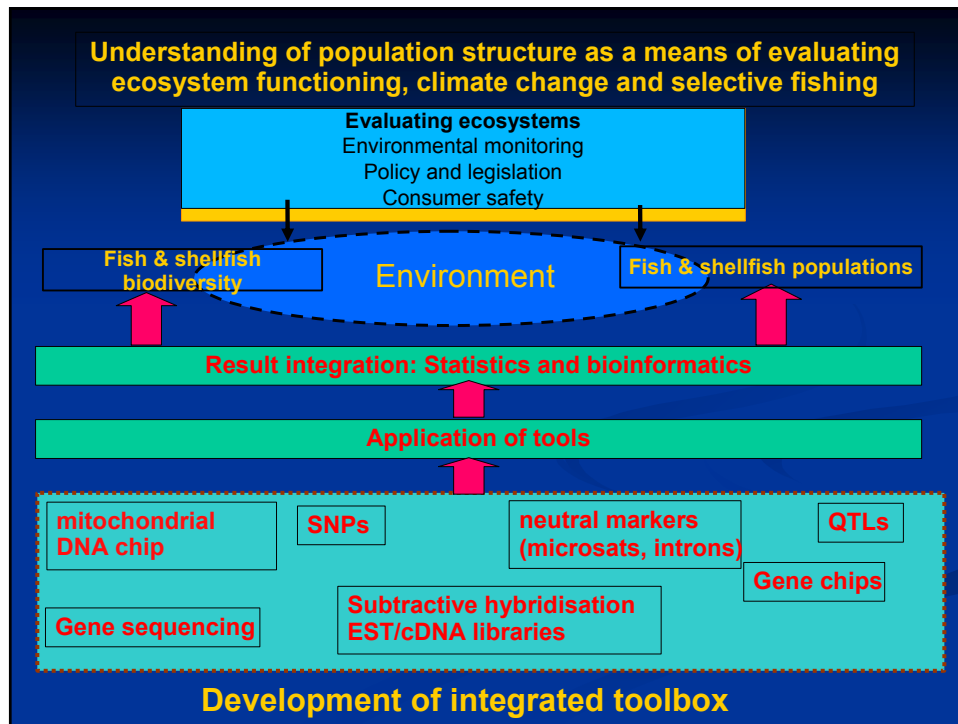
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Nodes

- *Algal Node*
- *Microbial Node*
- *Fish and Shellfish Node*
- *Evolution, Development & Biodiversity Node*

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Species under investigation

More than 30 species from a range of phylogenies

- *Ciona intestinalis*
 - Genome sequencing (Genoscope)
- Sea urchin *Paracentrotus lividus*
 - microarrays
- Hag fish *M. glutinosa*
 - BAC library
- Brown algae *Carpobrotus*
 - Genome sequencing
- Bacteria and Cyanobacteria
 - E.g *Cytophagales* (Polymer degradation) Genome sequencing

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Species under investigation

- *Sparus auratus*
 - ESTs, microarrays, microsatellites, SNPs, genetic maps
- *Dicentrarchus labrax*
 - ESTs, microarrays, microsatellites, SNPs, genetic maps
- *Ruditapes spp*
 - ESTs, microsatellites
- *Crassostrea gigas*
 - ESTs, microarrays, SNPs
- *Mytilus edulis* and *Bathymodiolus*
 - ESTs, microarrays and mitochondrial DNA sequencing

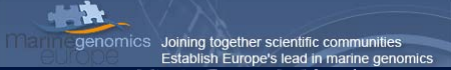

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JER - Fish and Shellfish node

- 40 cDNA libraries for *Sparus auratus*,
Dicentrarchus labrax, *Crassostrea gigas*, *Mytilus edulis*
- 100 000 Expressed Sequence Tags
- Microarrays for fish and shellfish
- Proteome of mussel sex differentiation

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JER - Fish and Shellfish node the future

- Development of fish and shellfish cell lines
- Identification of gene function using high throughput RNAi methods
- Genomics and proteomics analysis of short and longterm responses to the environment

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Marine Genomics Conference

www.marinegenomics2006.it



Marine Genomics

AN INTERNATIONAL CONFERENCE

Sorrento (Italy), October 28 / November 1, 2006
Hilton Sorrento Palace Congress Center

Jointly organized by



Marine Genomics Europe Network of Excellence



Stazione Zoologica Anton Dohrn (Naples, Italy)



Sars International Centre for Marine Molecular Biology (Bergen, Norway)

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