



## Budget

The European contribution for the project reaches:

**12 Millions Euros**

This contribution is dedicated to 4 major activities:

### Jointly Executed Research

This is the heart of the project. It is the commonly executed research that will allow the major scientific breakthroughs, combining the experience and resources of the teams involved.

### Spreading of Excellence

The partners level of excellence is the best guarantee for a high quality, creative and innovating research. It is an important driver for a durable impact on scientific, social and economical fields. The spreading of excellence activities aim to maximise this impact, through communication, general public awareness and tech-transfer.

### Integration

Ease the communication, the exchanges, create virtual (Website) and technical (Plateforms) meeting points, or events (congress, workshops) : These are the elements to durably structure the research in muscular development into a highly competitive European research strongpoint at the international level.

### Management

The management is here create to and maintain the internal dynamic of the Network, thus allowing it to seize the opportunities raising from its activity when confronted to social, economical and scientific external factors. The Management is also here to guarantee that the contractual obligations taken by the partners with the European Commission are duly fulfilled.

## Partners

- INSERM (Coordination)
- CNRS (Sub-coordination)
- University of Sheffield
- Clinical University - Freiburg
- King's College - London
- University of East Anglia - Norwich
- University of Wales - Cardiff
- Institut Pasteur - Paris
- EMBL - Heidelberg - Monterotondo
- CERBM - Strasbourg
- Technical University - Braunschweig
- School of Medicine - Padova
- Institute of Physiology, Academy of Sciences - Prague
- Phillips University - Marburg
- Max Delbrück Centre for Molecular Biology - Berlin
- Spanish Council for Scientific Research - Madrid
- Hebrew University - Jerusalem
- Imperial College - London
- University of York
- Université Pierre et Marie Curie - Paris
- Max Planck Institute - Bad Nauheim
- The Institute for Cancer Research - London
- INSERM-TRANSFERT (Management)



**Multi-Organismic Approach  
to study Normal and Aberrant  
Muscle Development,  
Function and Repair.**

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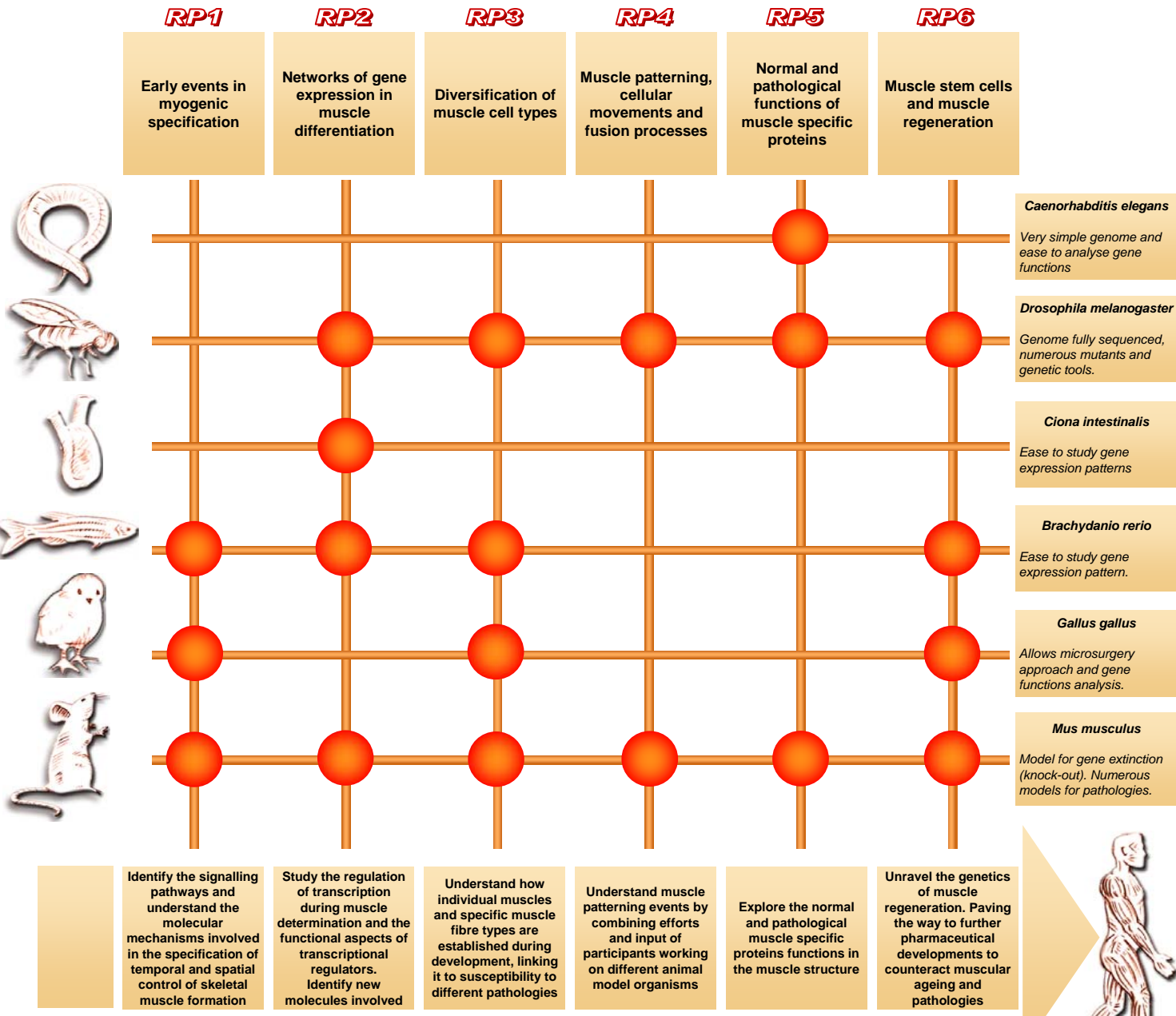


**Network of Excellence  
FP6**





# Research Programmes



# Platforms

Research in biology is increasingly dependent upon the use of expensive technologies and equipment. Furthermore, many projects by the participants of MYORES would be greatly enhanced by access to these facilities that will allow multifunctional approaches to understand the mechanisms of skeletal development and repair. Thus, the creation of new technical platforms together with the use of existing technical platforms will greatly facilitate the realisation of research projects, and promote collaborative actions.

- RNA interference gene attenuation platform**  
 Created in **Padova** and **Lyon** this platform aims to assess the function of candidate genes and to select those whose loss of activity affects myogenic differentiation or regeneration processes.
  - The platform in Lyon, supervised by CNRS, is centered on the use of *Caenorhabditis elegans* to analyse loss of gene function.
  - The platform in Padova will be dedicated to the attenuation of gene function in mouse muscle fibers.
- Drosophila transgenesis platform**  
 Created in **Clermont-Ferrand** and supervised by INSERM, this platform will allow rapid (within 6 weeks) generation of transgenic flies to analyse both the gain and loss of function of autologous or heterologous genes in vivo. This platform will be used to test the function of candidate genes identified by microarray and to create transgenic lines with heterologous genes identified from other animal models
- In vivo electroporation platform**  
 Created in **Marseille** and managed by CNRS, this platform will allow gene function to be tested in both invertebrate chordate *Ciona* and in the chick. This platform will serve to validate functional data obtained in *C.elegans* and *Drosophila* but also to test function of genes isolated in zebrafish and mouse

In addition, MYORES will have specific access to other pre-existing platforms:

- Microarray and Proteomic**  
 The access to microarray and proteomic facilities on two DNA microarray and protein 2D sites located in EMBL Heidelberg and Kings College London will be granted to MYORES participants
- Molecular modelling platform**  
 Located in the Structural Bioinformatics section of the Technology Facility of the University of York, it will facilitate the analysis of protein structures, the structural effects of mutations, protein-protein and protein-DNA interactions.
- Imaging platforms**  
 The imaging platforms will provide the most recent imaging technologies at whole animal, cellular and molecular levels. Three facilities are located at the University of Marseille-Luminy, at the East Anglia University, and at CERBM, Strasbourg.

All the data gathered by the MYORES participants will be integrated in MYOBASE, a database which will constitute a key platform for the exploitation of these resources by the scientific community working on this field.

