



The FunGenES gene expression atlas may also contribute to the development of adult stem cell-based therapies. We have assembled a team of leading academic and industrial researchers studying extrinsic and intrinsic pathways of ES cell differentiation as well as experts in relevant molecular biology techniques. The FunGenES project is subdivided into four subprojects investigating self-renewal, ectodermal, endodermal and mesodermal differentiation processes. Several technology units support the subprojects:

- A BAC (bacterial artificial chromosome) transgene and knockout/knockin construct production unit for the generation of reporter and mutant cell lines.
- A genome resource unit providing sets of arrayed and sequenced cDNA clones and a library of chemically mutagenised ES cells.
- An esiRNA production and screening unit for studying gene function in embryonic stem cells.
- An Affymetrix microarray and bioinformatics unit for large-scale expression profiling and data analysis.

The Knowledge Management and Optimising Synergy unit supports the research activities of the subprojects, strengthens integration of the research, and increases the efficiency by avoiding duplicate efforts.

FunGenES Partners

- University of Cologne, Germany
- Aventis Pharma Recherche-Développement, France
- Institut National de la Santé et de la Recherche Médicale, France
- GSF - National Research Centre for Environment and Health, Germany
- University of Edinburgh, United Kingdom
- Stem Cell Sciences Ltd, United Kingdom
- DeveloGen, Germany
- Max-Delbrück-Center for Molecular Medicine, Germany
- Institute for Stem Cell Research (Fondazione Centro San Raffaele del Monte Tabor), Italy
- Max-Planck-Institute of Molecular Cell Biology and Genetics, Germany
- Max-Planck-Institute for Molecular Genetics, Germany
- Centre National de la Recherche Scientifique, France
- Arttic, France
- Instituto de Medicina Molecular, Portugal
- Technische Universität Dresden, Germany
- Institute of Molecular Biology & Biotechnology (Foundation for Research & Technology Hellas), Greece
- University of Bath, United Kingdom
- IPK Gatersleben (Institute of Plant Genetics and Crop Plant Research), Germany



Supported by the Life-Science-Health Programme
Sixth EU Framework Programme for Research and Technological Development