

SETTING SCIENCE AGENDAS FOR EUROPE



The ESF Mission

ESF provides a common platform for its Member Organisations (MOs) in order to:



- Advance European research
- Explore new directions for research at the European level

Through our activities, we serve the needs of the European research community in a global context.



Science Needs Europe



- 78 Member
 Organisations in 30
 countries, beyond
 the European Union
- Research funding organisations
- Research performing organisations
- Academies



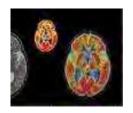
Three decades of science



- Established in 1974
- Independent, non-governmental
- Offices in Strasbourg, Brussels and Ostend
- 2008 Budget: 52.8M€
- Staff: 152 (105 in Strasbourg)



Scientific Domains



Medical Sciences (EMRC)



Life, Earth and Environmental Sciences (LESC)



Social Sciences (SCSS)



Humanities (SCH)



Physical and Engineering Sciences (PESC)



Polar Science



Marine Science



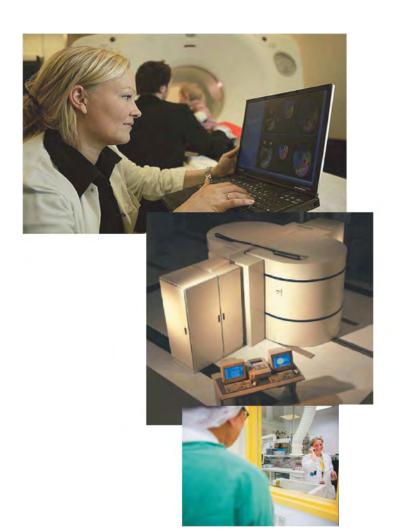
Nuclear Physics (NuPECC)



Space Sciences (ESSEC)



European Medical Research Councils



The membership organisation for the medical research councils in Europe under the ESF

EMRC founded 1971

Chair Prof L. Højgaard

Clinical Physiology, Nuclear Medicine & PET Rigshospitalet University of Copenhagen (DK)

All research areas

Basic Translational Clinical Research



Pillars of the ESF Activity

Science Strategy

Foresight and Advice with and for Member Organisations

Forward Looks

MO Fora

Exploratory Workshops

Science Policy Briefings

Science Synergy

Cooperation with Member Organisations

ESF Research Conferences

ESF Research Networking Programmes

EUROCORES
European
Collaborative
Research

Science Management

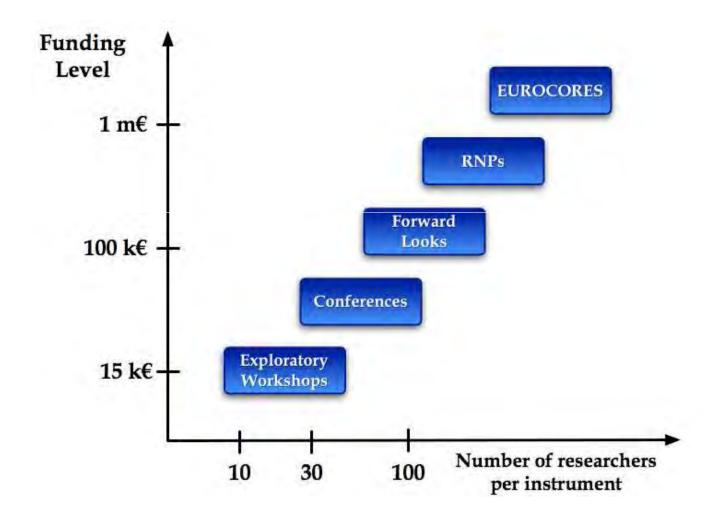
Implementation of Activities

Peer Review

COST
(CO-operation
in the Field of
Scientific and
Technical
Research)
Actions



ESF scientific activities





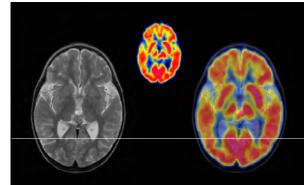
Science Policy Briefing



Medical Imaging for Improved Patient Care

Scientific Organisers:

Professor Arturo Brunetti [Co-Chair] CNR - Italy Professor Olav Haraldseth [Co-Chair] NTNU - Norway



Abstract:

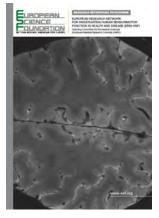
ESF/EMRC conducted a strategic workshop

focusing on the role of medical imaging in the future healthcare system. The aim of the workshop was to develop recommendations for a European policy directed towards supporting research and development within medical imaging.

Status: Published and widely publicised in October 2007



Research Networking Program



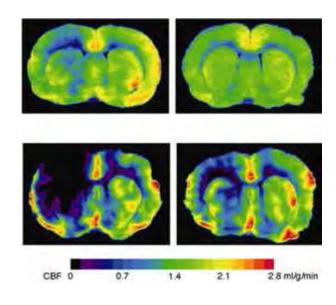
Investigating Human Sensorimotor Function in Health and Disease (ERNI-HSF)

Coordinator:

Prof. Stephen Jackson Nottingham Univ.- UK

Abstract:

The primary aim of this Research Networking Programme is to establish an interdisciplinary research forum that will drive forward our understanding of human sensorimotor function in health and disease.



Establish a European-wide database of neuroimaging data and the construction of a European Human Brain Atlas based upon pooled structural MRI data.

Status: Launched in May 2007 – End 2012



EMRC: Infrastructures

Medical Imaging



Biobanking



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Population Surveys and Biobanking

Contents

- troduction and Blobankin spact of Population Surveys 5 - Key Challenger of Blobanking 5 - Key Challenger
 - 5 Key Challenges of European Blobanking
- Recommendations for European Biobanking and Population Surveying
 Supert Group on Population Surveys and Elobanking

Foreword

duce a continuous stream of new knowledge about disease processes. However, the possibilities for early detection or, preferably, prevention of disease anneal limited. Floquidition-based prospective studies investigating the interaction between greatile prediposation to a disease and between greatile prediposation to a disease and solvenen greatile to gim! knowledge for the divelopment of disease preventing afrategies. Increasingly, it is being realised that population surveys and biobanking – systematically assembling collections of genetic meterial and other relevant information about individuals – will play ley for line achieving the medical paradigm shift from "cure" to "prevention".

A multitude of national and regional population- and disease-oriented biobanks have been established in Europe. However, the exchange of data and materials within national legal frameworks is still difficult and European biobanking efforts are characterized by fragmentation.

The European Science Foundation's medical section, the European Medical Research Councils (EMPC), initiated this science policy activity because studies of complex diseases require population surveys directed at building a knowledge base to improve early detection techniques and ultimately develop primary preventive measures. This report is the outcome of an ESF-EMRC Workshop on Population Surveys and Biobanking, involving an international high-level expert group, whose members made specific encommendation is attitude co-ordinated activity in population surveys and biobanking across Europe. The recommendation, summarized at the end of the report, see intended to trigger targeted efforts by relevant stakeholders, including the ESF and its Member Cognisations, governments, the European Commission, other International agencies, industry and academia.

To strengthen Europe's position in this scientific field, emphasis has to be put on increased collaboration to converge European biobanking activities, to address eithical issues and to prevent fragmentation by integrating parallel activities in this field. Sustained funding of biobanks is a prerequisite to fostering further development of this research area in Europe.

Chief Executive, ESF

Professor Liselotte Hojgaard Chair, EMRC

www.esf.org

- F - BRMRI

Biobanking and Biomolecular Resources Research Infrastructure

Clinical Trials









www.esf.org



Position Paper



MRI & Physical Agents EU Directive

Chair:

Professor Gabriel Krestin
The Netherlands

Abstract:

The aim is to present a consensus on the subject reached within the European medical research community, drawing on the conclusions of the high-level Expert Group of European scientists chaired by Professor Gabriel Krestin and coordinated by the ESF-EMRC, and summarise the policy of ESF's Member Organisations. The position paper will provide input into the discussion on the revision of the existing EC Directive on the Physical Agents (EMF) Directive (2004/40/EC)

Status: To be launched Autumn 2009



- We represent key Member Organisations
- We represent the research community
- Present in various infrastructure initiatives
- Range of science strategy, synergy, and management activities

ESF is here to help



Thank you

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