

INTEGRATING AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Focusing and Integrating Community Research

PRIORITY THEMATIC AREAS OF RESEARCH

Life Sciences, Genomics and Biotechnology for Health



Ms Mary Gillick
BioResearch Ireland
Tel. 353 1 837 0177
Fax 353 1 837 0176

Email: gillickm@biores-ir.ie
National Delegate



Dr Gwilym Williams
BioResearch Ireland
Tel. 353 1 808 2748
Fax 353 1 837 0176

Email: gwilym.williams@enterprise-ireland.com
National Contact Point

Advanced genomics and its applications for health

Fundamental knowledge and basic tools for functional genomics in all organisms

- Gene expression and proteomics
- Structural genomics
- Comparative genomics and population genetics
- Bioinformatics
- Multidisciplinary functional genomics approaches to basic biological processes

Applications of knowledge and technologies in the field of genomics and biotechnology for health

- Technological platforms for the developments in the fields of new diagnostic, prevention and therapeutic tools

Combating major diseases

Application-oriented genomic approaches to medical knowledge and technologies

- Combating cardiovascular diseases, diabetes and rare diseases
- Combating resistance to antibiotics and other drugs
- Studying the brain and combating diseases of the nervous system
- Studying human development and the ageing process

Combating cancer

- Establishing facilities and developing initiatives for the exploitation of research on cancer in Europe
- Supporting clinical research, particularly clinical trials, aimed at validating new and improved interventions
- Supporting translational research aimed at bringing basic knowledge through to applications in clinical practice and public health
- Other issues related to cancer, such as ageing and cancer, regional differences, psycho-social aspects, palliative care and guidance to support groups

Confronting the major communicable diseases linked to poverty

Information Society Technologies



Mr Tom Sheedy
Enterprise Ireland
Tel. 353 1 808 2769
Fax 353 1 837 0178

Email: tom.sheedy@enterprise-ireland.com
National Delegate



Mr Rory Power
Enterprise Ireland
Tel. 353 1 808 2746
Fax 353 1 837 0178

Email: rory.power@enterprise-ireland.com
National Contact Point

Applied IST research addressing major societal and economic challenges

- *Technologies for trust and security*
- *Ambient intelligence, e-inclusion*
- *e-business, e-government, e-work systems, e-learning*
- *Complex problem solving in science, engineering, businesses and for society*

Communication, computing and software technologies

- *Communication and network technologies*
- *Software technologies, embedded systems and distributed systems*

Components and Microsystems

- *Micro, nano and opto-electronics*
- *Micro and nanotechnologies, microsystems, displays*

Knowledge and interface technologies

- *Knowledge technologies and digital content*
- *Intelligent interfaces and surfaces*

IST future and emerging technologies

**Nanotechnologies and Nanosciences,
Knowledge-based Functional Materials,
and New Production Process and Devices**



Mr Donal Carroll
Enterprise Ireland
Tel. 353 1 808 2302
Fax 353 1 808 2296
Email: donal.carroll@enterprise-ireland.com
National Delegate



Dr Jenny Melia
Trinity College, Dublin
Tel. 353 1 608 2404
Fax 353 1 608 2151

Email: jmelia@tcd.ie
National Contact Point for Nanotechnologies and
Nanosciences

Nanotechnologies and nanosciences

- Long-term interdisciplinary research into understanding phenomena, mastering processes and developing research tools
- Nanobiotechnologies
- Nanometrescale engineering techniques to create materials and components
- Development of handling and control devices and instruments
- Applications in areas such as health and medical systems, chemistry, energy, optics, food and the environment



Dr Joe Healy
Enterprise Ireland
Tel. 353 1 808 2381
Fax 353 1 836 7028

Email: joe.healy@enterprise-ireland.com
National Contact Point for Knowledge-based
multifunctional materials and new production
processes and devices.

Knowledge-based multifunctional materials

- Development of fundamental knowledge
- Technologies associated with the production, transformation and processing of knowledge-based multifunctional materials, and biomaterials
- Engineering support for materials development

New production processes and devices

- Development of new processes and flexible and intelligent manufacturing systems
- Systems research and hazard control
- Optimising the life-cycle of industrial systems, products and services

Aeronautics and Space



Mr Jim Lawler
Enterprise Ireland
Tel. 353 1 808 2467
Fax 353 1 836 7028
Email: jim.lawler@enterprise-ireland.com
National Delegate



Dr Michael Murphy
Trinity College, Dublin
Tel. 353 1 608 1663
Fax 353 1 679 5554
Email: murphymi@tcd.ie
National Contact Point

Aeronautics

- *Strengthening competitiveness by reducing development costs, aircraft direct operating costs and improving passenger comfort*
- *Improving environmental impact with regard to emissions and noise*
- *Improving aircraft safety*
- *Increasing operational capacity and safety of the air transport system*

Space

- *The European Satellite Navigation system – GALILEO: development of multisectorial systems, equipment, tools and user equipment*
- *Global Monitoring and Environmental Security – GMES: stimulate evolution of satellite-based information services by development of technologies*
- *Satellite telecommunications*

Food Quality and Safety



Dr Tom Teehan
*Dept of Agriculture
and Food*
Tel. 353 1 607 2641
Fax 353 1 676 2989

Email: tom.teehan@agriculture.gov.ie
National Delegate



Dr Tony Smith
*Dept of Agriculture
and Food*
Tel. 353 1 607 2924
Fax 353 1 676 2989

Email: tony.smith@agriculture.gov.ie
National Contact Point

Epidemiology of food-related diseases and allergies

Impact of food on health

“Traceability” processes all along the production chain

Methods of analysis, detection and control

Safer and environmentally friendly production methods and technologies and healthier foodstuffs

Impact on animal feed on human health

Environmental health risks

- *Risks linked to the food chain*
- *Combined exposures of authorised substances*

Sustainable Development, Global Change & Ecosystems



Mr Kevin O'Rourke
Sustainable Energy Ireland
Tel. 353 1 808 2074
Fax 353 1 837 2848

Email: kevin.ourourke@sei.ie
National Delegate & National Contact Point for Sustainable Energy Systems



Mr James Caffrey
Department of Transport
Tel. 353 1 604 1253
Fax 353 1 604 1688

Email: jamescaffrey@transport.ie
National Delegate & National Contact Point for Sustainable Surface Transport

Sustainable energy systems

- Clean energy, in particular renewable energy sources and their integration in the energy system, including storage, distribution and use
- Energy savings and energy efficiency, including those to be achieved through the use of renewable raw materials
- Alternative motor fuels
- Fuel cells, including their applications
- New technologies for energy carriers/transport and storage, in particular hydrogen
- New and advanced concepts in renewable energy technologies
- Capture and sequestration of CO₂, associated with cleaner fossil fuel plants



Mr Geoffrey O'Sullivan
Marine Institute
Tel. 353 1 476 6500
Fax 353 1 478 4988

Email: geoffrey.osullivan@marine.ie
National Delegate & National Contact Point for Global Change and Ecosystems

Sustainable surface transport

- Developing environmentally friendly and competitive transport systems and means of transport
- Making rail and maritime transport safer, more effective and more competitive

Global change and ecosystems

- Impact and mechanisms of greenhouse gas emissions and atmospheric pollutants on climate, ozone depletion and carbon sinks (oceans and inland waters, forests and soil)
- Water cycle, including soil-related aspects
- Biodiversity and ecosystems
- Mechanisms of desertification and natural disasters
- Strategies for sustainable land management, including coastal zones, agricultural land and forests
- Operational forecasting and modelling, including global climate change observation systems
- Complementary research

Citizens and Governance in a Knowledge Based Society



Dr Marc Caball
*Irish Research Council for
the Humanities and Social
Sciences*
Tel. 353 1 660 2196
Fax 353 1 660 3728

Email: mcaball@irchss.ie
National Delegate



Mr Tim Conlon
*Irish Research Council
for the Humanities and
Social Sciences*
Tel. 353 1 660 3652
Fax 353 1 660 3728

Email: tconlon@irchss.ie
National Contact Point

Knowledge-based society and social cohesion

- *Improving the generation, distribution and use of knowledge and its impact on economic and social development*
- *Options and choices for the development of a knowledge-based society*
- *Variety of paths towards a knowledge society*

Citizenship, democracy and new forms of governance

- *Implications of European integration and enlargement for governance and the citizen*
- *Articulation of areas of responsibility and new forms of governance*
- *Issues connected with the resolution of conflicts and restoration of peace and justice*
- *New forms of citizenship and cultural identities*

SPECIFIC ACTIVITIES COVERING A WIDER FIELD OF RESEARCH

Policy support and anticipating the EU's scientific and technological needs

- To underpin the formulation and implementation of Community policies, in particular the common agricultural policy (CAP), the common fisheries policies (CFP), environment, energy, transport, health, development aid and consumer protection
- To explore new and emerging scientific and technological challenges and opportunities, including in particular interdisciplinary and multidisciplinary research areas not covered by the seven thematic priorities.

Specific research activities for SMEs

- **Collective Research** is a form of research undertaken by RTD performers on behalf of industrial associations or industry groupings in order to expand the knowledge base of large communities of SMEs
- **Cooperative Research** is a scheme whereby a limited number of SMEs from different countries having specific problems or needs, outsource the required research to an RTD performer while retaining ownership of the results

SMEs are encouraged to participate in the activities implemented under the priority thematic areas. At least 15% of the budget relating to the seven thematic priorities will be allocated to SMEs

Specific international cooperation activities

Activities involving third countries are carried out in two forms:

- Participation of third countries in projects within the seven priority thematic areas
- Specific international cooperation activities with three groups of countries: the Mediterranean third countries including the Western Balkans, Russia and other NIS countries, and the developing countries. Research priorities in particular will cover:
 - In the case of the developing countries, the problems of health and public health, food security, and the rational exploitation of resources
 - In the case of the Mediterranean third countries, issues relating to environment, health and water issues, as well as protection of the cultural heritage.
 - In the case of Russia and other NIS countries, stabilisation of R&D potential, issues relating to changes in the industrial production system, environment and health protection and related safety aspects.



Mr Declan Hughes

Forás
Tel. 353 1 607 3120
Fax 353 1 607 3260

Email: declan.hughes@forfas.ie
National Delegate



Mr Bill Brandon

Office of Science & Technology
Tel. 353 1 631 2182
Fax 353 1 631 2812

Email: bill_brandon@entemp.ie
National Delegate



Dr Eoin O'Sullivan

Science Foundation
Ireland
Tel. 353 1 607 3234
Fax 353 1 607 3201

Email: eoin.osullivan@sfi.ie
NEST National Contact Point



Mr Philip Thornton

Enterprise Ireland
Tel. 353 1 808 2515
Fax 353 1 808 2046

Email: philip.thornton@enterprise-ireland.com
SME National Contact Point



Ms Rita Ward

Enterprise Ireland
Tel. 353 1 808 2767
Fax 353 1 837 0178

Email: rita.ward@enterprise-ireland.com
International Co-operation National Contact Point

Strengthening the Foundations of the European Research Area

Support of the Coordination of Activities

Coordination of national activities

- Networking of national or regional programmes or parts of programmes; actors: public authorities, research agencies (ERA-NET proposals)
- Development of an integrated information system on national and regional research programmes; actor: the European Commission



Mr Declan Hughes

Forfás
Tel. 353 1 607 3120
Fax 353 1 607 3260

Email: declan.hughes@forfas.ie
National Delegate

Coordination at European level

- Scientific and technological activities carried out in other European cooperation frameworks such as COST, EUREKA, ESF
- Collaboration and joint initiatives of European organisations (CERN, ESA, ESO, EMBL, ESRF, ILL, etc.)



Mr Bill Brandon

Office of Science &
Technology
Tel. 353 1 631 2182
Fax 353 1 631 2812

Email: bill_brandon@entemp.ie
National Delegate

Support for the Coherent Development of Research and Innovation Policies

- Analyses and studies relating to foresight, statistics and science and technology indicators
- Benchmarking of research and innovation policies at national, regional and European level
- Mapping scientific and technological excellence in Europe
- Improving the regulatory and administrative environment for research and innovation in Europe



Ms Paula McKillen

Forfás
Tel. 353 1 607 3014
Fax 353 1 607 3260

Email: paula.mckillen@forfas.ie
Co-ordination National Contact Point

STRUCTURING THE EUROPEAN RESEARCH AREA

Research and Innovation

Networking the players and encouraging interaction

- Encourage and validate initiatives to promote creation of innovative businesses
- Exchange of good practices with regard to communication, training, transfer of knowledge



Ms Dorothy Timmons
Enterprise Ireland
Tel. 353 1 808 2350
Fax 353 1 808 2645
Email: dorothy.timmons@enterprise-ireland.com
National Delegate & National Contact Point

Encouraging transregional co-operation

- Promote exchange of information, facilitate transfer of good practice and put in place regional innovation strategies

Experimenting with new tools and approaches

Putting services in place and consolidating them

- *CORDIS*
- Innovation Relay Centres
- Information and support services in the field of intellectual and industrial property rights and access to innovation funding

Stepping up economic and technological intelligence

- Innovation promotion in SMEs
- Gathering, analysis and dissemination of information on S&T developments, applications and markets
- Identification and dissemination of best practice

Analysing and evaluating innovation in Community research projects

Human Resources and Mobility

Host-driven actions

- Marie Curie Research Training Networks
- Marie Curie Host Fellowships for Early Stage Research Training
- Marie Curie Host Fellowships for the Transfer of Knowledge
- Marie Curie Conferences and Training Courses



Dr Conor O'Carroll
CHU
Tel. 353 1 676 4948
Fax 353 1 662 2815
Email: conor.ocarroll@chiu.ie
National Delegate & National Contact Point

Individual-driven actions

- Marie Curie Intra-European Fellowships
- Marie Curie Outgoing International Fellowships
- Marie Curie Incoming International Fellowships

Excellence Promotion and Recognition

- Marie Curie Excellence Grants
- Marie Curie Excellence Awards
- Marie Curie Chairs

Return and reintegration mechanisms

- Support for the reintegration of researchers into scientific careers in Europe after their Marie Curie mobility period
- Provision of opportunities for those European researchers who have spent long periods outside Europe and wish to return

Research Infrastructures

- **Transnational access** to major research infrastructures for research teams and individual researchers
- **Integrating activities** combining cooperation networks with transnational access and research projects
- **Communication network development** in conjunction with the thematic priority Information Society Technologies to establish a high-capacity and high-speed communication network (GEANT)
- **Design studies:** feasibility studies for new infrastructures with a European dimension
- **Development of new infrastructures:** contribution to their development alongside with other funding agencies



Dr Gerardine Costello
Forfás
Tel. 353 1 607 3150
Fax 353 1 607 3260
Email: gerardine.costello@fortas.ie
National Delegate & National Contact Point

Science and Society

Bringing research closer to society

- **Science and governance:** analyse and support best practice, develop new consultation mechanisms
- **Scientific advice and reference systems:** exchange of experience and good practice; monitoring the production of scientific advice worldwide



Ms Ann-Marie Grace
Office of Science & Technology
Tel. 353 1 631 2196
Fax 353 1 631 2812
Email: ann_marie_grace@entemp.ie
National Delegate & National Contact Point

Responsible research and application of science and technology

- **Ethics:** networking between existing bodies and activities, promotion of dialogue in a global context, awareness raising, training, research on ethics in relation to science and technology
- **Uncertainty, risk and the precautionary principle:** analysis and best practice

Stepping up the science-society dialogue and women in science

- Public awareness of science and science communication
- Awards for scientific achievement, collaboration and communication
- Promoting young people's interest in science and scientific careers
- Women and science

FP6: Breakdown of Funding *

INTEGRATING AND STRENGTHENING THE EUROPEAN RESEARCH AREA

Types of activities	Amount (EUR million)			
FOCUSING AND INTEGRATING COMMUNITY RESEARCH			13,345	
Priority thematic areas of research		11,285		
Life sciences, genomics and biotechnology for health	2,255			
<i>Advanced genomics and its applications for health</i>	<i>1,100</i>			
<i>Combating major diseases</i>	<i>1,155</i>			
Information society technologies	3,625			
Nano-technologies and nano-sciences, knowledge-based multifunctional materials, and new production processes and devices	1,300			
Aeronautics and space	1,075			
Food quality and safety	685			
Sustainable development, global change and ecosystems	2,120			
<i>Sustainable energy systems</i>	<i>810</i>			
<i>Sustainable surface transport</i>	<i>610</i>			
<i>Global change and ecosystems</i>	<i>700</i>			
Citizens and governance in a knowledge-based society	225			
Specific activities covering a wider field of research		1,300		
<i>Policy support and anticipating scientific and technological needs</i>	<i>555</i>			
<i>Horizontal research activities involving SMEs</i>	<i>430</i>			
<i>Specific measures in support of international cooperation</i>	<i>315</i>			
Non-nuclear activities of the Joint Research Centre		760		
STRENGTHENING THE FOUNDATIONS OF THE EUROPEAN RESEARCH AREA			320	
Support for the coordination of activities	270			
Support for the coherent development of policies	50			

STRUCTURING THE EUROPEAN RESEARCH AREA

Types of activities	Amount (EUR million)			
STRUCTURING THE EUROPEAN RESEARCH AREA			2,605	
Research and Innovation	290			
Human Resources	1,580			
Research infrastructures	655			
Science and society	80			

TOTAL **16,270**

* The Sixth Framework Programme has an associated budget of €17.5 billion - the EC Framework Programme having a budget of €16.27 billion, and the Euratom Framework Programme having a budget of €1.23 billion.

FP6 National Information & Support Unit

FP6 Information & Support Unit

A national Information and Support Unit has been set up in Enterprise Ireland to assist researchers interested in taking part in the Sixth Framework Programme. The Unit acts as a first point of contact for queries, and disseminates up-to-date information about the Programme. The service organises information and other events and works closely with the National Delegates and the National Contact Points for the various FP6 themes and activities. The system of National Contact Points (NCPs) is the main structure to give advice, practical information and assistance to potential participants in FP6.



Ms Jackie Golden
Enterprise Ireland
Tel. 353 1 808 2372
Fax 353 1 837 0178
Email: jackie.golden@enterprise-ireland.com



Ms Anne Marie Daly
Enterprise Ireland
Tel. 353 1 808 2473
Fax 353 1 837 0178
Email: anne-marie.daly@enterprise-ireland.com

Proposal Preparation Support for Companies

Enterprise Ireland may be able to offer financial assistance towards the cost of preparing a proposal through its Feasibility Grants Scheme, including the costs of travelling to meet potential partners, hiring a consultant, or covering the personnel costs of working on the proposal.

Travel Support

Third level researchers may be eligible for support in order to travel to exploratory network meetings.

For advice or assistance, please contact:

Jackie Golden

Tel: 353 1 808 2372
Fax: 353 1 837 0178
Email: Jackie.golden@enterprise-ireland.com

Anne Marie Daly

Tel: 353 1 8082473
Fax: 353 1 837 0178
Email: anne-marie.daly@enterprise-ireland.com

Up-to-date information is available on Enterprise Ireland's FP6 website

www.fp6-ireland.ie

and

www.fp6-ireland.com



SIXTH FRAMEWORK
PROGRAMME



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