



Translational research in other major diseases:

Cancer, Cardiovascular disease, Diabetes and obesity, Rare diseases, Other chronic diseases

Cancer

The focus will be on disease aetiology, new medicines and therapies, identifying and validating drug targets and biological markers that aid in the prevention, early diagnosis and treatment; and assessing the effectiveness of preventive, prognostic, diagnostic and therapeutic interventions. The activities funded in this area will further understanding of the basic mechanisms underlying cancer and therefore help translate into clinical setting. It is expected that projects will successfully exploit this knowledge to develop novel drugs and new treatment strategies.

Topics for first call – Deadline 19 April 2007

- Translating the knowledge on non-coding RNA's linked to the aetiology of cancer into novel diagnosis and therapy strategies
- Translating clinical 'omics'-technology (genomics, proteomics, metabolomics) into innovative cancer biomarkers aiding in early diagnosis, prognosis and treatment selection of cancer patients
- Genomic instability and genomic alteration in pre-cancerous lesions and/or cancer
- Novel cancer screening methods

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

- Optimising research on end of life care of cancer patients

Funding scheme: Coordination and Support action

- Understanding and fighting metastasis
- Improving targeted drug delivery to cancer cells for cancer therapeutics other gene therapy
- Developing high-throughput bioassays and models for human cancers in lower species

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

Topics for second call – Deadline 18 September 2007

- Innovative combination clinical trials for multimodal cancer therapy
- Role of inflammation in tumour initiation and progression
- Epidemiology of gene-environment interactions involved in carcinogenesis
- Translating the hypoxic tumour microenvironment

Funding scheme: Collaborative projects (large scale integrating projects)

Topics for ERA NET – Deadline 31 July 2007

- ERA_NET on optimisation of the use of cancer registries for cancer research purposes

Funding scheme: Coordination and Support action

Topics for Specific International Cooperation Action (SICA) – Deadline 18 September 2007

- Studying cancer aetiology in Latin America

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

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Cardiovascular disease

The focus will be on diagnosis, prevention, treatment and monitoring of heart and blood vessel diseases using broad multidisciplinary approaches.

Topics for first call – Deadline 19 April 2007

- Molecular basis of the inflammatory response and associated vascular remodelling in arteriosclerosis
- Vascular remodelling in aneurismal disease

Funding scheme: Collaborative Projects (large scale integrating projects)

- Combating stroke

Funding scheme: Collaborative Projects (large scale integrating projects)

Topics for second call – Deadline 18 September 2007

- Congenital pathologies affecting the heart
- Cell therapies for the treatment of heart ischemia
- Organ imaging in CVD
- Integrating pharmacogenomic approaches into the treatment of CVD

Funding scheme: Collaborative Projects (small or medium-scale focused research)

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Diabetes and obesity

For Diabetes, the focus will be on aetiologies of the different types of diabetes, and their related prevention and treatment. For Obesity, the focus will be on multidisciplinary approaches including genetics, life style and epidemiology. For both, special attention will be given to juvenile diseases and factors operating in childhood.

Topics for first call – Deadline 19 April 2007

- Early processes in the pathogenesis of type 1 diabetes and strategies for early prevention
- Combines forms of diabetes in children

Funding scheme: Collaborative Projects (small or medium-scale focused research with maximum EC contribution of €6.000.000/project)

- Insulin resistance as a key factor in the development of diabetes and metabolic syndrome
- Pathophysiological mechanisms related to excess fat

Funding scheme: Collaborative Projects (small or medium-scale focused research)

Topics for second Call – Deadline 18 September 2007

- Nutritional signals and the development of new diabetes/obesity therapeutic agents
- Markers and treatment for diabetic neuropathy complications
- Gene and phenotypical differentiation of type 2 subjects and monogenic subjects
- Use of beta cell imaging in diabetes mellitus

Funding scheme: Collaborative Projects (small or medium-scale focused research with maximum EC contribution of €6.000.000/project)

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Rare diseases

The focus will be on Europe-wide studies of natural history, pathophysiology and on development of preventive, diagnostic and therapeutic interventions. This sector will include rare Mendelian phenotypes of common diseases.

Topics for first call – Deadline 19 April 2007

- Natural course and pathophysiology of rare diseases
- Funding scheme: Collaborative Projects (small or medium-scale focused research with maximum EC contribution of €3.000.000/project)*

- Research capacity-building in the field of rare diseases.

Funding scheme: Coordination and Support action

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Other chronic diseases

The focus will be on non-lethal diseases with a high impact on the quality of life at old age such as functional and sensory impairment and other chronic diseases (e.g. rheumatoid and respiratory diseases).

Topics for first call – Deadline 19 April 2007

- Osteoarthritis
- Inflammatory bowel disease
- Osteoporosis: signalling pathways in bone formation
- Genetic factors of Osteoporosis
- Intervertebral disc degeneration: prevention and repair
- Innovative concepts in chronic obstructive pulmonary disease pathogenesis (COPD)

Funding scheme: Collaborative Projects (small or medium-scale focused research projects)

- Hearing impairment and degeneration
- Impairment of touch and proprioception at old age
- Visual impairment and degeneration

Funding scheme: Coordination and Support action

Topics for second Call – Deadline 18 September 2007

- Understanding and combating age related muscle weakness
 - Translational research aiming for a treatment of urinary incontinence
- Funding scheme: Collaborative Projects (small or medium-scale focused research projects)*

- Early processes in the pathogenesis of chronic inflammatory diseases
- Funding scheme: Collaborative Projects (large-scale integrating projects)*

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