Objective

Given contemporary understanding of the complexity of the causal architecture of common chronic diseases, the next stage of bioclinical scientific progress will depend critically on large-scale pooled analyses of high quality data from many biobanks and bioclinical studies. Such analyses will only be possible if we are able to harmonise and standardise the collection, storage, and management of data and biosamples across biobanking studies. Recent consortium-based meta-analyses of genome-wide association studies (GWAS) have clearly demonstrated that it is possible to pool and analyse genomic data with broad indicators of disease status. But if health care science is to move quickly towards the exciting goals that have been envisaged for public health, clinical science, and personalised medicine a far
greater challenge must now be overcome. That is, the standardization and harmonization of data and key measures of life-style, social circumstances and environment, as well as critical sub-components of the phenotypes associated with common complex diseases. This is the mission of BioSHaRE-EU. BioSHaRE-EU will work hand-in-hand with BBMRI (Biobanking and Bio-molecular Resources Research Infrastructure) and P3G (Public Population Project in Genomics), to build directly on extensive precursor work in the field of harmonisation and standardisation. The project will deliver tools to harmonize phenotypes of complex diseases, as well as lifestyle and environmental factors. In addition, it provides statistical methods and biostatistical tools for meta-analysis of large scale studies. These tools and methods will be developed and implemented in five large partner-biobanks: HUNT, KORA, LifeGene, LifeLines, UK-biobank. BioSHaRE-EU will also implement these in additional disease consortia of clinical biobanks, and other population-based biobanks.

**Fields of science**

- medical and health sciences ➔ health sciences ➔ health care sciences
- medical and health sciences ➔ health sciences ➔ public health

**Programme(s)**

FP7-HEALTH - Specific Programme "Cooperation": Health

**Topic(s)**

HEALTH.2010.1.1-1 - Harmonisation of phenotyping and biosampling for human large-scale research biobanks. FP7-HEALTH-2010-single-stage

**Call for proposal**

FP7-HEALTH-2010-single-stage
See other projects for this call

**Funding Scheme**

CP-IP - Large-scale integrating project

**Coordinator**

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<th>EU Contribution</th>
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<th>Activity Type</th>
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<td><strong>ACADEMISCH ZIEKENHUIS GRONINGEN</strong></td>
<td>€ 3 011 795,20</td>
<td>Hanzeplein 1, 9713 GZ Groningen</td>
<td>Higher or Secondary</td>
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<td><strong>University of Leicester</strong></td>
<td>€ 1 883 115</td>
<td>University Road, LE1 7RH Leicester</td>
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<td>€ 883 212</td>
<td>Lovisenberggata 8, 0403 Oslo</td>
<td>Research Organisations</td>
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Helsingin Yliopisto

Finland

EU contribution

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Activity type
Higher or Secondary Education Establishments

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<td>€ 40 080</td>
<td>Auenbruggerplatz 2, 8036 Graz, Graz</td>
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<td>PUBLIC POPULATION PROJECT IN GENOMICS</td>
<td>Canada</td>
<td>€ 639 094,40</td>
<td>Queen Mary Road 3333, H3V 1A2 Montreal</td>
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€ 579 704,60

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THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD

United Kingdom

EU contribution
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