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A European Infrastructure of Ligand Binding Molecules Against the Human Proteome

Fact Sheet

Project Information

PROTEOMEBINDERS

Grant agreement ID: 26008

[Project website](#) 

Project closed

Start date

1 March 2006

End date

31 May 2010

Funded under

Research infrastructures: Specific programme for research, technological development and demonstration: "Structuring the European Research Area" under the Sixth Framework Programme 2002-2006

Total cost

€ 1 799 999,00

EU contribution

€ 1 799 984,00

Coordinated by

BABRAHAM BIOSCIENCE
TECHNOLOGIES LTD

 United Kingdom

Objective

The objective of this proposal is to coordinate the establishment of a European resource infrastructure of binding molecules directed against the entire human proteome. A major objective of the post-genome era is to detect, quantify and characterise all relevant human proteins in tissues and fluids in health and disease.

This effort requires a comprehensive, characterised and standardised collection of specific ligand-binding reagents, including antibodies; the most widely used such molecules, as well as novel protein scaffolds and nucleic acid aptamers.

Currently there is no pan-European platform to coordinate systematic development, resource management and quality control for these important reagents. This CA will coordinate 25 European partners and two in the USA, several of which operate infrastructures or large-scale projects in aspects including cDNA collections, protein production, polyclonal and monoclonal antibodies. They provide a critical mass of leading expertise in binder technology, protein expression, binder applications and bioinformatics. Many have tight links to relevant SMEs, as founders or advisors.

The CA will plan the organisation of the resource, by integrating existing infrastructures, reviewing technologies and high throughput production methods, standardising binder-based tools and applications, assembling bioinformatics and establishing a database schema for a central binders repository. The proteome binders' resource is predicted to have huge benefits for basic and applied research, impacting on healthcare, diagnostics, target discovery for drug intervention and therapeutics.

It will thus be of great advantage to the research and biotechnology communities. In general terms, Europe is already well advanced in the technologies required and excellently placed to initiate this large-scale project. The CA will prepare the way for an application for the production phase of the infrastructure under FP7.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > [proteins](#) > **[proteomics](#)**

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > **[nucleic acids](#)**

[natural sciences](#) > [computer and information sciences](#) > **[databases](#)**



Programme(s)

[FP6-INFRASTRUCTURES - Research infrastructures: Specific programme for research, technological development and demonstration: "Structuring the European Research Area" under the Sixth Framework Programme 2002-2006](#)

Topic(s)

[INFRASTR-2 - Integrating Activities](#)

Call for proposal

FP6-2004-INFRASTRUCTURES-5

[See other projects for this call](#)

Funding Scheme

[IA-CA - Integrating activities implemented as Coordination Actions](#)

Coordinator



BABRAHAM BIOSCIENCE TECHNOLOGIES LTD

EU contribution

No data

Total cost

No data

Address

**Babraham Research Campus, Babraham, Cambridge CB22 3AT Babraham Research
Campus
CAMBRIDGE**

United Kingdom

Links

[Contact the organisation](#) [Website](#)

[HORIZON collaboration network](#)

Participants (29)



CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE

France

EU contribution

No data

Address

3 rue Michel-Ange

PARIS 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



BEATSON INSTITUTE FOR CANCER RESEARCH

 United Kingdom

EU contribution

No data

Address

Switchback Road, Garscube Estate

GLASGOW 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



DEUTSCHES KREBSFORSCHUNGSZENTRUM HEIDELBERG

 Germany

EU contribution

No data

Address

Im Neuenheimer Feld 280

HEIDELBERG 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



EUROPEAN MOLECULAR BIOLOGY LABORATORY

 Germany

EU contribution

No data

Address

Meyerhofstrasse 1
HEIDELBERG 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



HELMHOLTZ-ZENTRUM FUER INFEKTIONSFORSCHUNG GMBH

 Germany

EU contribution

No data

Address

Inhoffenstraße 7
BRAUNSCHWEIG 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITAET KASSEL

 Germany

EU contribution

No data

Address

Monchbergstrasse 19

KASSEL 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITAET KONSTANZ

 Germany

EU contribution

No data

Address

Universitaetsstrasse 10

KONSTANZ 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



KUNGLIGA TEKNISKA HOEGSKOLAN

 Sweden

EU contribution

No data

Address

Valhallavaegen 79

STOCKHOLM 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



AKADEMISCH ZIEKENHUIS LEIDEN

 Netherlands

EU contribution

No data

Address

Albinusdreef 2
PO Box 9600 LEIDEN 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



LOS ALAMOS NATIONAL LABORATORY

 United States

EU contribution

No data

Address

TA-43, HRL-1
LOS ALAMOS, NEW MEXICO 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



LUNDS UNIVERSITET

 Sweden

EU contribution

No data

Address

Paradisgatan 5c

117 LUND 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.

 Germany

EU contribution

No data

Address

Hofgartenstrasse 8

MUENCHEN 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



NATURWISSENSCHAFTLICHES UND MEDIZINISCHES INSTITUT AN DER UNIVERSITAET TUEBINGEN

 Germany

EU contribution

No data

Address

Markwiesenstrasse 55

REUTLINGEN 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost
No data



MEDICAL FACULTY UNIVERSITY OF RIJEKA

Croatia

EU contribution
No data

Address
**Brace Branchetta, 20
RIJEKA**

Links
[Contact the organisation](#) [Website](#)
[HORIZON collaboration network](#)

Total cost
No data



NATIONAL UNIVERSITY OF IRELAND DUBLIN, UNIVERSITY COLLEGE DUBLIN

Ireland

EU contribution
No data

Address
**Belfield
DUBLIN**

Links
[Contact the organisation](#) [Website](#)
[HORIZON collaboration network](#)

Total cost
No data



**RZPD DEUTSCHES RESSOURCENZENTRUM FUER GENOMFORSCHUNG
GMBH**

Germany

EU contribution

No data

Address

Heubnerweg 6
BERLIN 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

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SOMALOGIC INC

 United States

EU contribution

No data

Address

1775 38th Street
BOULDER, CO 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



TECHNISCHE UNIVERSITAET CAROLO-WILHELMINA ZU BRAUNSCHWEIG

 Germany

EU contribution

No data

Address

Pockelsstrasse 14
BRAUNSCHWEIG 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



TECHNISCHE UNIVERSITAET MUENCHEN

 Germany

EU contribution

No data

Address

Arcisstrasse 21

MUENCHEN 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



UPPSALA UNIVERSITET

 Sweden

EU contribution

No data

Address

St Olofsgatan 10B

UPPSALA 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR BIOTECHNOLOGIE VZW

 Belgium

EU contribution

No data

Address

Rijvisschestraat 120
ZWIJNAARDE 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



VTT TECHNICAL RESEARCH CENTRE OF FINLAND

 Finland

EU contribution

No data

Address

Vuorimiehentie 5
1000 ESPOO 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



GENOME RESEARCH LIMITED

 United Kingdom

EU contribution

No data

Address

215 Euston Road
LONDON 

Links

[Contact the organisation](#)  [Website](#) 
[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITAET ZUERICH

Switzerland

EU contribution

No data

Address

Winterthurerstr. 190
ZURICH

Links

[Contact the organisation](#) [Website](#)
[HORIZON collaboration network](#)

Total cost

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THE BABRAHAM INSTITUTE

United Kingdom

EU contribution

No data

Address

Babraham Hall
CAMBRIDGE

Links

[Contact the organisation](#) [Website](#)
[HORIZON collaboration network](#)

Total cost

No data



IMAGENES GMBH

Germany

EU contribution

No data

Address

Robert-Rössle-Str.10

BERLIN 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



ECOLE NATIONALE SUPÉRIEURE D'ELECTRONIQUE, INFORMATIQUE & RADIOCOMUNICATIONS DE BORDEAUX

 France

EU contribution

No data

Address

1, avenue du Docteur Albert Schweitzer

TALENCE 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost

No data



HELMHOLTZ ZENTRUM MÜNCHEN - DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT (GMBH)

 Germany

EU contribution

No data

Address

Ingolstaedter Landstrasse 1

NEUHERBERG 

Links

[Contact the organisation](#)  [Website](#) 

[HORIZON collaboration network](#) 

Total cost
No data



UNIVERSITE VICTOR SEGALEN - BORDEAUX II

 France

EU contribution
No data

Address
146, rue Léo Saignat
BORDEAUX 

Total cost
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European Union, 2025

