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Metagenomics of the Human Intestinal Tract

Fact Sheet

Project Information

METAHIT

Grant agreement ID: 201052

[Project website](#) 

Project closed

Start date

1 January 2008

End date

30 June 2012

Funded under

Specific Programme "Cooperation": Health

Total cost

€ 21 355 988,85

EU contribution

€ 11 400 000,00

Coordinated by

INSTITUT NATIONAL DE
RECHERCHE POUR
L'AGRICULTURE,
L'ALIMENTATION ET
L'ENVIRONNEMENT

 France

Objective

A detailed understanding of human biology will require not only knowledge of the human genome but also of the human metagenome, defined here as the ensemble of the genomes of human-associated microorganisms. Our proposal focuses on the microorganisms of the gut, which are particularly abundant and complex and have an important role for human health and well-being. We shall implement and integrate the following activities: (i) creation of a reference set of genes and genomes of intestinal microbes, using high fidelity metagenomic sequencing and full genome sequencing

of selected bacterial species; (ii) creation of the generic tools, based on the high density DNA arrays and novel ultra-high throughput re-sequencing techniques, to study the variation of human gut microbiota; (iii) use of the tools to search for correlations between the genes present in the gut microbiota and disease, focusing on the inflammatory bowel disease and obesity, the two pathologies of increasing social relevance in Europe; (iv) study of the genes correlated with the disease, both in terms of their function in microbes and their effect on the host, with the focus on host-microbe interactions; (v) development of an informatics resource to store and organize the heterogeneous information generated within the project, such as gene and genome sequences, gene frequencies in healthy and sick individuals or gene functions and also enriched by information relevant to human gut microbiota from the outside of the project; (vi) creation of the bioinformatics tools to carry out the meta-analysis of the information; (vii) creation of an interface with the stakeholders, including an international board to promote cooperation and coordination in the human metagenome field, and general public. Our project will place Europe in a leading position in this field and open avenues to modulate human gut microbiota in a reasoned way, enabling to optimize the health and wellbeing of any individual.

Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [genetics](#) > [DNA](#)

[medical and health sciences](#) > [basic medicine](#) > [medical genetics](#)

[natural sciences](#) > [biological sciences](#) > [genetics](#) > [genomes](#)



Keywords

[Metagenomics](#)

[database](#)

[inflammatory bowel disease](#)

[microarray-based profiling tools](#)

[obesity](#)

[reference set of genes and genomes o](#)

[reference set of genes and genomes of human intestine microbes](#)

[sequencing-based profiling tools](#)

Programme(s)

[FP7-HEALTH - Specific Programme "Cooperation": Health](#)

Topic(s)

[HEALTH-2007-2.1.1-4 - Characterisation and variability of the microbial communities in the Human Body](#)

Call for proposal

FP7-HEALTH-2007-A

[See other projects for this call](#)

Funding Scheme

[CP-IP - Large-scale integrating project](#)

Coordinator



**INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE,
L'ALIMENTATION ET L'ENVIRONNEMENT**

EU contribution

€ 2 289 017,65

Total cost

No data

Address

**147 RUE DE L'UNIVERSITE
75007 Paris**

 **France** 

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

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

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (15)



DANMARKS TEKNISKE UNIVERSITET

 Denmark

EU contribution

€ 1 464 910,00

Address

ANKER ENGELUNDS VEJ 101

2800 Kongens Lyngby 

Region

Danmark > Hovedstaden > Københavns omegn

Activity type

Higher or Secondary Education Establishments

Links

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

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



Danone Global Research & Innovation Center

 France

EU contribution

No data

Address

ROUTE DEPARTEMENTALE 128

91190 GIF SUR YVETTE 

Region

Ile-de-France > Ile-de-France > Essonne

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



EUROPEAN MOLECULAR BIOLOGY LABORATORY

 Germany

EU contribution

€ 1 434 954,15

Address

Meyerhofstrasse 1
69117 Heidelberg 

Region

Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis

Activity type

Research Organisations

Links

- [Contact the organisation](#) 
- [Website](#) 
- [Participation in EU R&I programmes](#) 
- [HORIZON collaboration network](#) 

Total cost

No data



INSTITUT CATALA DE LA SALUT

 Spain

EU contribution

€ 417 000,00

Address

GRAN VIA DE LES CORTS CATALANES 587
08007 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



ISTITUTO EUROPEO DI ONCOLOGIA SRL

Italy
EU contribution
€ 392 000,00

Address
VIA FILODRAMMATICI 10
20121 Milano

Region
Nord-Ovest > Lombardia > Milano

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
No data



NOVO NORDISK A/S

Denmark
EU contribution
€ 295 000,00

Address
NOVO ALLE 1
2880 Bagsvaerd

Region
Danmark > Hovedstaden > Københavns omegn

Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



SYDDANSK UNIVERSITET

Denmark

EU contribution

€ 418 429,00

Address

CAMPUSVEJ 55
5230 Odense M

Region

Danmark > Syddanmark > Fyn

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



UCB PHARMA SA

Spain

EU contribution

No data

Address

AVENIDA DE BARCELONA 239
08750 MOLINS DE REI

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



WAGENINGEN UNIVERSITY

Netherlands

EU contribution

€ 622 722,00

Address

DROEVENDAALSESTEEG 4
6708 PB Wageningen

Region

Oost-Nederland > Gelderland > Veluwe

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



GENOME RESEARCH LIMITED

United Kingdom

EU contribution

€ 680 885,20

Address

WELLCOME SANGER INSTITUTE WELLCOME GENOME CAMPUS HINXTON
CB10 1SA SAFFRON WALDEN

Region

East of England > East Anglia > Cambridgeshire CC

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

No data



COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES

France

EU contribution

€ 1 854 000,00

Address

RUE LEBLANC 25
75015 PARIS 15

Region

Ile-de-France > Ile-de-France > Paris

Activity type

Research Organisations

Links

- Contact the organisation Website
- Participation in EU R&I programmes
- HORIZON collaboration network

Total cost

No data



BEIJING INSTITUTE OF GENOMICS CHINESE ACADEMY OF SCIENCES

China

EU contribution

No data

Address

BEITUCHENG WEST ROAD 7
100029 BEIJING

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



Beijing Genomics Institute at Shenzhen

China

EU contribution

€ 459 511,00

Address

Beishan Industrial Zone
518083 Shenzhen

Activity type

Research Organisations

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

No data



KOBENHAVNS UNIVERSITET

Denmark

EU contribution

€ 1 071 571,00

Address

NORREGADE 10
1165 Kobenhavn

Region

Danmark > Hovedstaden > Byen København

Activity type

Higher or Secondary Education Establishments

Links

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

[Participation in EU R&I programmes](#) 

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Total cost

No data



MERIEUX ALLIANCE SA

 France

EU contribution

No data

Address

RUE BOURGELAT 17

69002 LYON 

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

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[HORIZON collaboration network](#) 

Total cost

No data

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European Union, 2025