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European initiative to improve knowledge, treatment and survival of haemophagocytic syndromes in children

Fact Sheet

Project Information

CUREHLH

Grant agreement ID: 201461

[Project website](#) 

Project closed

Start date
1 June 2008

End date
31 May 2011



Funded under
Specific Programme "Cooperation": Health

Total cost
€ 3 917 550,34

EU contribution
€ 2 994 942,00

Coordinated by
UNIVERSITAETSKLINIKUM
HAMBURG-EPPENDORF
 Germany

Objective

Haemophagocytic lymphohistiocytosis (HLH) is a rare and life-threatening inherited immune disorder of early childhood characterised by an uncontrolled immune response. Three disease causing genes have been identified in about half of the patients. Diagnosis is difficult, pathophysiology poorly understood, and treatment unsatisfactory with about 40% of the children dying from treatment failure or toxicity. All European scientists active in research and treatment of HLH have joined in a consortium to enforce collaboration, combine the various expertises, and provide

access to material and data. In vitro studies and several murine models for HLH and diseases predisposing to HLH, will be used to get more insight into the pathophysiology of the diverse genetic defects. Studies will address the role of triggers and antigen-presenting cells, the influence of cytokines in the initiation and propagation of the uncontrolled immune response, the interaction of immune effector cells and soluble factors, and the mechanism of cytotoxicity in lymphocytes and natural killer cells. Data about geno-phenotype will be combined to evaluate how known and unknown genetic defects reflect on the clinical course and immunophenotype of the patients. A diagnostic algorithm, incorporating knowledge from the known defects, will be developed and optimised in all countries to facilitate earlier and reliable diagnosis, and to separate patients with unknown defects or acquired HLH. The identification of risk factors for treatment failure and toxicity will be used to design improved treatment strategies. An experimental treatment will be tested in a murine model and will be the basis for a less toxic treatment in the future. Earlier diagnosis, better insight into the pathophysiology, and development of less toxic treatments are the steps towards a higher cure rate in HLH. In a rare disease as HLH, only combined efforts on an European-wide level will be able to achieve these goals.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [basic medicine](#) > [physiology](#) > **[pathophysiology](#)**

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



Keywords

[children](#)

[genetic disease](#)

[haemophagocytosis](#)

[histiocytosis](#)

[immunodeficiency](#)

[murine model](#)

Programme(s)

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

Topic(s)

[HEALTH-2007-2.4.4-1 - Natural course and pathophysiology of rare diseases](#)

Call for proposal

FP7-HEALTH-2007-A

[See other projects for this call](#)

Funding Scheme

[CP-FP - Small or medium-scale focused research project](#)

Coordinator



UNIVERSITAETSKLINIKUM HAMBURG-EPPENDORF

EU contribution

€ 546 987,00

Total cost

No data

Address

Martinistrasse 52

20251 Hamburg

 **Germany** 

Region

Hamburg > Hamburg > Hamburg

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (8)



UNIVERSITA DEGLI STUDI DI BRESCIA

 **Italy**

EU contribution

€ 346 200,00

Address

PIAZZA MERCATO 15
25121 Brescia 

Region

Nord-Ovest > Lombardia > Brescia

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



FORSCHUNGSZENTRUM BORSTEL LEIBNIZ LUNGENZENTRUM

 Germany

EU contribution

€ 548 213,00

Address

PARKALLEE 1-40
23845 Borstel 

Region

Schleswig-Holstein > Schleswig-Holstein > Stormarn

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



UNIVERSITAETSKLINIKUM FREIBURG

 Germany

EU contribution

€ 486 920,00

Address

HUGSTETTER STRASSE 49
79106 Freiburg 

Region

Baden-Württemberg > Freiburg > Freiburg im Breisgau, Stadtkreis

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



THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE

 United Kingdom

EU contribution

€ 72 170,00

Address

TRINITY LANE THE OLD SCHOOLS
CB2 1TN Cambridge 

Region

East of England > East Anglia > Cambridgeshire CC

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



KAROLINSKA INSTITUTET

 Sweden

EU contribution

€ 300 720,00

Address

Nobels Vag 5

17177 Stockholm 

Region

Östra Sverige > Stockholm > Stockholms län

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



INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

 France

EU contribution

€ 414 330,00

Address

RUE DE TOLBIAC 101

75654 Paris 

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



AZIENDA OSPEDALIERA UNIVERSITARIA MEYER IRCCS

 Italy

EU contribution

€ 168 852,00

Address

VIALE PIERACCINI 24
50139 Firenze 

Region

Centro (IT) > Toscana > Firenze

Activity type

Research Organisations

Links

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

Total cost

No data



ISTITUTO GIANNINA GASLINI

 Italy

EU contribution

€ 110 550,00

Address

VIA GEROLAMO GASLINI 5
16147 Genova 

Region

Nord-Ovest > Liguria > Genova

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

Last update: 29 May 2017

Permalink: <https://cordis.europa.eu/project/id/201461>

European Union, 2025