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Preparedness, Prediction and Prevention of Emerging Zoonotic Viruses with Pandemic Potential using Multidisciplinary Approaches

Fact Sheet

Project Information

PREDEMICS

Grant agreement ID: 278433

Project closed

Start date

1 November 2011

End date

30 April 2017

Funded under

Specific Programme "Cooperation": Health

Total cost

€ 15 162 937,16

EU contribution

€ 11 758 352,00

Coordinated by

INSTITUT PASTEUR



France

Objective

The capacity of zoonotic RNA viruses to emerge as major agents of human disease can appear limitless. Current intervention strategies have demonstrated limited success. Rapid, innovative and effective solutions are needed to reduce the apparently accelerating process of zoonotic disease emergence. We will study the following zoonotic viruses with epidemic potential in Europe: influenza virus, hepatitis E virus, viruses of the Japanese encephalitis serocomplex and lyssaviruses. These

diverse viruses arise from the main reservoirs and vectors of potentially emerging viral diseases and use the three major routes of transmission: respiratory, faecal-oral and vector borne. Inter-disciplinary studies will generate valuable data on patterns of crossing the species barrier, transmission and disease emergence, including ecological and anthropological factors which determine virus availability and opportunities for exposure and infection. We will unravel the complex biological interactions between the virus and the recipient hosts that drive the viral adaptation and elucidate the factors determining the ability of the viruses to spread to and between humans (including pandemic spread). Furthermore, immune mechanisms of protection and novel prevention strategies will be investigated. Data will be compiled in a unique and freely accessible data-sharing platform to build a framework for analysing the drivers of pathogen emergence. Modelling, building on the analysis of key data, will focus on the extent to which pathogen trajectories are predictable and will identify high-risk situations and environments. This will allow improvement of disease surveillance, control, preparedness and intervention. Training in leading European Universities, as well as exchanges of approaches and data sharing with national and international health organizations will strengthen European position in this global challenge.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [health sciences](#) > [public health](#) > [epidemiology](#) > **[pandemics](#)**

[medical and health sciences](#) > [health sciences](#) > [infectious diseases](#) > [RNA viruses](#) > **[coronaviruses](#)**

[medical and health sciences](#) > [health sciences](#) > [public health](#) > [epidemiology](#) > **[zoonosis](#)**



Programme(s)

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

Topic(s)

[HEALTH.2011.2.3.3-1 - Identification of factors promoting the emergence of pathogens with human pandemic potential from pathogens with a zoonotic background and related prevention strategies](#)

Call for proposal

FP7-HEALTH-2011-two-stage

[See other projects for this call](#)

Funding Scheme

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

Coordinator



INSTITUT PASTEUR

EU contribution

€ 3 201 554,22

Total cost

No data

Address

RUE DU DOCTEUR ROUX 25-28
75724 Paris

 France 

Region

Ile-de-France > Ile-de-France > Hauts-de-Seine

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Participants (19)



ISTITUTO ZOOPROFILATTICO SPERIMENTALE DELLE VENEZIE

 Italy

EU contribution

€ 1 014 017,84

Address

VIALE DELL UNIVERSITA 10
35020 Legnaro 

Region

Nord-Est > Veneto > Padova

Activity type

Other

Links

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

Total cost

No data



KATHOLIEKE UNIVERSITEIT LEUVEN

Belgium

EU contribution

€ 794 361,77

Address

OUDE MARKT 13
3000 Leuven

Region

Vlaams Gewest > Prov. Vlaams-Brabant > Arr. Leuven

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



UNIVERSITE D'AIX MARSEILLE

France

EU contribution

€ 693 772,00

Address

BOULEVARD CHARLES LIVON 58 LE PHARO
13284 Marseille

Region

Provence-Alpes-Côte d’Azur > Provence-Alpes-Côte d’Azur > Bouches-du-Rhône

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

No data



EIDGENOESSISCHES DEPARTEMENT DES INNERN

Switzerland

EU contribution

€ 984 745,60

Address

Inselgasse 1
3003 Bern



Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

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



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

United Kingdom

EU contribution

€ 876 316,70

Address

**SOUTH KENSINGTON CAMPUS EXHIBITION ROAD
SW7 2AZ LONDON** 

Region

London > Inner London — West > Westminster

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



AGENCE NATIONALE DE LA SECURITE SANITAIRE DE L ALIMENTATION DE L ENVIRONNEMENT ET DU TRAVAIL

 France

EU contribution

€ 674 450,00

Address

**14 RUE PIERRE ET MARIE CURIE
94700 Maisons Alfort** 

Region

Ile-de-France > Ile-de-France > Val-de-Marne

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

 Germany

EU contribution

€ 344 800,00

Address

HOFGARTENSTRASSE 8

80539 Munchen 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



FUNDACIO INSTITUT D'INVESTIGACIO SANITARIA ILLES BALEARS 

 Spain

EU contribution

€ 93 706,21

Address

CARRETERA DE VALLDEMOSSA, 79

07120 Palma 

Region

Este > Illes Balears > Mallorca

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



GOETEBORGS UNIVERSITET

 Sweden

EU contribution

€ 483 160,00

Address

VASAPARKEN

405 30 Goeteborg 

Region

Södra Sverige > Västsverige > Västra Götalands 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



PHILIPPS UNIVERSITAET MARBURG

 Germany

EU contribution

€ 399 900,00

Address

BIEGENSTRASSE 10

35037 Marburg 

Region

Hessen > Gießen > Marburg-Biedenkopf

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



**ISTITUTO NAZIONALE PER LE MALATTIE INFETTIVE LAZZARO
SPALLANZANI-ISTITUTO DI RICOVERO E CURA A CARATTERE SCIENTIFICO**

 Italy

EU contribution

€ 751 896,00

Address

**Via Portuense, 292
00149 Roma** 

Region

Centro (IT) > Lazio > Roma

Activity type

Research Organisations

Links

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

Total cost

No data



THE UNIVERSITY OF EDINBURGH

 United Kingdom

EU contribution

€ 178 141,27

Address

**OLD COLLEGE, SOUTH BRIDGE
EH8 9YL Edinburgh** 

Region

Scotland > Eastern Scotland > Edinburgh

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



ISTITUTO PER L'INTERSCAMBIO SCIENTIFICO

Italy
EU contribution
€ 328 943,15

Address
VIA CHISOLA 5
10126 Torino

Region
Nord-Ovest > Piemonte > Torino

Activity type
Research Organisations

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

Total cost
No data



Fondation Health Sciences e-Training

Switzerland
EU contribution
€ 151 252,25

Address
Place Saint-François 1
1002 Lausanne

Region
Schweiz/Suisse/Svizzera > Région lémanique > Vaud

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

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

Total cost
No data



ISTITUTO SUPERIORE DI SANITA

Italy
EU contribution
€ 120 000,00

Address
Viale Regina Elena 299
00161 Roma

Region
Centro (IT) > Lazio > Roma

Activity type
Research Organisations

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

Total cost
No data



ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA

Italy
EU contribution
€ 37 500,00

Address
VIA ZAMBONI 33
40126 Bologna

Region
Nord-Est > Emilia-Romagna > Bologna

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



UNIVERSITAT DE BARCELONA

Spain

EU contribution

€ 256 034,99

Address

GRAN VIA DE LES CORTS CATALANES 585
08007 Barcelona

Region

Este > Cataluña > Barcelona

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



Freunde von GISAID e.V.

Germany

EU contribution

€ 373 800,00

Address

LIPOWSKYSTRASSE 10
81373 MUNCHEN

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



EIDGENOESSISCHES DEPARTEMENT FUER WIRTSCHAFT, BILDUNG UND FORSCHUNG

 Switzerland

EU contribution

No data

Address

Bundeshaus Ost

3003 Bern 

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

No data

Last update: 7 December 2017

Permalink: <https://cordis.europa.eu/project/id/278433>

European Union, 2025