

HORIZON
2020

Connecting European Cohorts to Increase Common and Effective Response to SARS-CoV-2 Pandemic: ORCHESTRA

Fact Sheet

Project Information

ORCHESTRA

Grant agreement ID: 101016167

[Project website](#)

DOI

[10.3030/101016167](https://doi.org/10.3030/101016167)

Project closed

EC signature date

6 November 2020

Start date

1 December 2020

End date

30 November 2024

Funded under

SOCIETAL CHALLENGES - Health, demographic change and well-being

Total cost

€ 29 799 685,68

EU contribution

€ 27 887 638,18

Coordinated by

UNIVERSITA DEGLI STUDI DI
VERONA

 Italy

Project description

Preparing to respond to future pandemics

The effects of the COVID-19 pandemic signal the need to build better preparedness for future threats. The EU-funded ORCHESTRA project provides an innovative method to study the pandemic and deliver recommendations for future health crises.

Specifically, it will establish a new EU-wide cohort based on existing and new large-scale population cohorts in the EU and non-European countries. ORCHESTRA will perform data analysis through a federated learning technique enhanced by pioneering modelling capabilities to integrate epidemiological, clinical, microbiological and genotypic aspects of population-based cohorts with environmental and socioeconomic elements. The project includes infected and non-infected individuals of all ages and conditions, focusing on at-risk populations of vulnerable individuals and healthcare workers.

Fields of science

[medical and health sciences](#) > [health sciences](#) > [public health](#) > [epidemiology](#) > [epidemics prevention](#)

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

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

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

[medical and health sciences](#) > [basic medicine](#) > [pharmacology and pharmacy](#) > [pharmaceutical drugs](#) > [vaccines](#)

Keywords

[SARS-COV2](#)

[population-based study](#)

[preparedness](#)

[federated-learning](#)

[statistical modeling](#)

[multidisciplinary](#)

[healthcare](#)

[socio-economic](#)

[fragile populations](#)

[low-resource setting](#)

Programme(s)

[H2020-EU.3.1. - SOCIETAL CHALLENGES - Health, demographic change and well-being](#)

MAIN PROGRAMME

[H2020-EU.3.1.5. - Methods and data](#)

[H2020-EU.3.1.2. - Preventing disease](#)

[H2020-EU.3.1.1. - Understanding health, wellbeing and disease](#)

[H2020-EU.3.1.3. - Treating and managing disease](#)

Topic(s)

Call for proposal

[H2020-SC1-PHE-CORONAVIRUS-2020-2](#)

[See other projects for this call](#)

Sub call

H2020-SC1-PHE-CORONAVIRUS-2020-2-RTD

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



UNIVERSITA DEGLI STUDI DI VERONA

Net EU contribution

€ 2 205 373,75

Total cost

€ 5 182 396,25

Address

VIA DELL ARTIGLIERE 8

37129 Verona

 **Italy** 

Region

Nord-Est > Veneto > Verona

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (33)

 INTERNATIONAL PARTNER 

TRANSLATIONAL HEALTH SCIENCE AND TECHNOLOGY INSTITUTE

 India

Net EU contribution

€ 0,00

Address

**NCR BIOTECH SCIENCE CLUSTER 3RD MILESTONE HARYANA
121001 Faridabad** 

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

No data

 INTERNATIONAL PARTNER 

UNIVERSIDADE FEDERAL DE SAO PAULO

 Brazil

Net EU contribution

€ 0,00

Address

**R SENA MADUREIRA 1500 5TH FL
04021001 Sao Paulo** 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

No data

 THIRD-PARTY 

AZIENDA OSPEDALIERA UNIVERSITARIA INTEGRATA 'ISTITUTI OSPITALIERI DI VERONA

 Italy

Net EU contribution

€ 1 064 975,00

Address

**PIAZZALE ARISTIDE STEFANI 1
37126 Verona** 

Region

Nord-Est > Veneto > Verona

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

 INTERNATIONAL PARTNER 

CBCI Society for Medical Education

 India

Net EU contribution

€ 0,00

Address

**St. John's National Academy of Health Sciences
560034 Koramangala** 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

No data



ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA

Italy

Net EU contribution

€ 2 719 769,13

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

€ 2 871 107,51

THIRD-PARTY

AZIENDA UNITA' SANITARIA LOCALE DI BOLOGNA

Italy

Net EU contribution

€ 39 277,13

Address

VIA CASTIGLIONE 29

40124 Bologna

Region

Nord-Est > Emilia-Romagna > Bologna

Activity type

Research Organisations

Links

[Contact the organisation](#)

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

[HORIZON collaboration network](#)

Total cost

No data

 THIRD-PARTY 

IRCCS AZIENDA OSPEDALIERO- UNIVERSITARIA DI BOLOGNA

 Italy

Net EU contribution

€ 112 061,25

Address

VIA ALBERTONI 15
40138 Bologna 

Region

Nord-Est > Emilia-Romagna > Bologna

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



INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

 France

Net EU contribution

€ 3 531 451,25

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

€ 3 531 451,25



SERVICIO ANDALUZ DE LA SALUD

 Spain

Net EU contribution

€ 778 556,25

Address

AVENIDA DE LA CONSTITUCION 18

41071 SEVILLA 

Region

Sur > Andalucía > Sevilla

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

€ 778 556,25



CINECA CONSORZIO INTERUNIVERSITARIO

 Italy

Net EU contribution

€ 876 250,00

Address

VIA MAGNANELLI 6/3

40033 Casalecchio Di Reno Bo 

Region

Nord-Est > Emilia-Romagna > Bologna

Activity type

Research Organisations

Links

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

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


[HORIZON collaboration network](#) 

Total cost

€ 876 250,00



LUXEMBOURG INSTITUTE OF HEALTH

 Luxembourg

Net EU contribution

€ 932 101,25

Address

1A RUE RUE THOMAS EDISON

1445 Strassen 

Region

Luxembourg > Luxembourg > Luxembourg

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 932 101,25



ASSISTANCE PUBLIQUE HOPITAUX DE PARIS

 France

Net EU contribution

€ 678 500,00

Address

55 BOULEVARD DIDEROT

75012 Paris 

Region

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 678 500,00



REGIONE EMILIA ROMAGNA

 Italy

Net EU contribution

€ 344 769,13

Address

VIALE ALDO MORO 52

40127 Bologna 

Region

Nord-Est > Emilia-Romagna > Bologna

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

€ 695 106,38

 THIRD-PARTY 

AZIENDA UNITA SANITARIA LOCALE DI REGGIO EMILIA

 Italy

Net EU contribution

€ 350 337,25

Address

VIA AMENDOLA 2
42100 Reggio Emilia 

Region

Nord-Est > Emilia-Romagna > Reggio nell'Emilia

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



FUNDACION PRIVADA INSTITUTO DE SALUD GLOBAL BARCELONA

 Spain

Net EU contribution

€ 282 328,25

Address

**C ROSSELLO 132 PLANTA 05
08036 Barcelona** 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 282 328,25




LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN

 Germany

Net EU contribution

€ 2 138 179,41

Address

GESCHWISTER SCHOLL PLATZ 1
80539 MUNCHEN 

Region

Bayern > Oberbayern > München, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 2 138 179,41



UNIVERSITEIT ANTWERPEN

 Belgium

Net EU contribution

€ 4 099 583,25

Address

PRINSSTRAAT 13
2000 Antwerpen 

Region

Vlaams Gewest > Prov. Antwerpen > Arr. Antwerpen

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 4 099 583,25



HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH

 Germany

Net EU contribution

€ 1 234 959,38

Address

INGOLSTADTER LANDSTRASSE 1
85764 Neuherberg 

Region

Bayern > Oberbayern > München, Landkreis

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 1 234 959,38




KLINIKUM DER UNIVERSITAET ZU KOELN

 Germany

Net EU contribution

€ 1 184 381,25

Address

Kerpener Strasse 62
50937 Koeln 

Region

Nordrhein-Westfalen > Köln > Köln, Kreisfreie Stadt

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 1 184 381,25



FONDAZIONE PENTA ETS

Italy

Net EU contribution

€ 1 100 000,00

Address

CORSO STATI UNITI 4

35127 Padova

Region

Nord-Est > Veneto > Padova

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 1 100 000,00



UNIVERSITY OF STUTTGART

Germany

Net EU contribution

€ 634 937,50

Address

KEPLERSTRASSE 7

70174 Stuttgart

Region

Baden-Württemberg > Stuttgart > Stuttgart, Stadtkreis

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 634 937,50



Centre de Recherches Medicales de Lambaréné

 Gabon

Net EU contribution

€ 360 000,00

Address

NA

118 Lambaréné 

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 360 000,00



REGIONALNY URAD VEREJNEHO ZDRAVOTNICTVA SO SIDLOM V BANSKEJ BYSTRICI

 Slovakia

Net EU contribution

€ 137 750,00

Address

CESTA K NEMOCNICI 622 1

975 56 Banska Bystrica 

Region

Slovensko > Stredné Slovensko > Banskobystrický kraj

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 137 750,00



CHARITE - UNIVERSITAETSMEDIZIN BERLIN

 Germany

Net EU contribution

€ 749 100,00

Address

Chariteplatz 1

10117 Berlin 

Region

Berlin > Berlin > Berlin

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 749 100,00



ACADEMISCH ZIEKENHUIS GRONINGEN

 Netherlands

Net EU contribution

€ 493 625,00

Address

HANZEPLEIN 1

9713 GZ Groningen 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost
€ 493 625,00



CENTRE INFORMATIQUE NATIONAL DE L'ENSEIGNEMENT SUPERIEUR

France

Net EU contribution

€ 671 750,00

Address

**950 RUE DE ST PRIEST
34097 Montpellier**

Region

Occitanie > Languedoc-Roussillon > Hérault

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

€ 671 750,00



UNIVERSIDAD DE OVIEDO

Spain

Net EU contribution

€ 171 250,00

Address

**CALLE SAN FRANCISCO 3
33003 OVIEDO**

Region

Noroeste > Principado de Asturias > Asturias

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 171 250,00



UNIVERSIDAD DE BUENOS AIRES

 Argentina

Net EU contribution

€ 83 000,00

Address

CALLE VIAMONTE 430

1053 Buenos Aires 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 83 000,00



INSTITUTUL NATIONAL DE SANATATE PUBLICA

 Romania

Net EU contribution

€ 198 013,75

Address

STR DR LEONTE 1-3 SECTOR 5

050463 Bucuresti 

Region

Macroregiunea Trei > București-Ilfov > București

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

€ 198 013,75



UNIVERSITÄTSKLINIKUM HEIDELBERG

 Germany

Net EU contribution

€ 235 609,00

Address

IM NEUENHEIMER FELD 672

69120 Heidelberg 

Region

Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 235 609,00



REGIONE DEL VENETO

 Italy

Net EU contribution

€ 114 750,00

Address

DORSODURO 3901

30123 Venezia 

Region

Nord-Est > Veneto > Venezia

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

€ 246 000,00

 **THIRD-PARTY** 

AZIENDA ZERO

 Italy

Net EU contribution

€ 131 250,00

Address

PASSAGGIO LUIGI GAUDENZIO 1

35131 Padova 

Region

Nord-Est > Veneto > Padova

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



FONDATION CONGOLAISE POUR LA RECHERCHE MEDICALE

 Congo

Net EU contribution

€ 233 750,00

Address

VILLA D6 CAMPUS WHO/AFRO DJOUE

Brazzaville 

Activity type

Other

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 233 750,00

Last update: 11 November 2024

Permalink: <https://cordis.europa.eu/project/id/101016167>

European Union, 2025