

HORIZON
2020

Shortening the path to rare disease diagnosis by using newborn genetic screening and digital technologies

Fact Sheet

Project Information

SCREEN4CARE

Grant agreement ID: 101034427

DOI

[10.3030/101034427](https://doi.org/10.3030/101034427) 

EC signature date

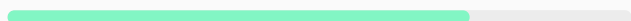
13 October 2021

Start date

1 October 2021

End date

30 September 2026



Funded under

SOCIETAL CHALLENGES - Health, demographic change and well-being

Total cost

€ 26 247 174,00

EU contribution

€ 11 938 568,75

Coordinated by

UNIVERSITA DEGLI STUDI DI
FERRARA



Project description

Fast-tracking rare disease diagnosis and treatment

There are more than 7 000 known rare diseases, conditions that affect no more than 1 person in 2 000. Collectively, these conditions that impact up to 36 million people across the EU and will affect 1 in 17 people during their lifetime, are often severe, multisystemic chronic diseases that put patients at risk of permanent organ damage and degeneration. Patients typically face an arduous journey to a proper diagnosis. In this context, the EU-funded SCREEN4CARE project aims to shorten the time to diagnosis and treatment of patients with rare diseases. Bringing together 35 partners in an international public-private consortium, the project will use a multipronged

strategy that includes genetic newborn screening and AI-based algorithms to identify patients at early disease onset.

Fields of science (EuroSciVoc)

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



Keywords

[Rare disease](#)

[neuromuscular diseases](#)

[databases](#)

[newborn screening](#)

[genetic testing](#)

[electronic health record](#)

[digital platform](#)

[machine-learning.phenotypic checker](#)

Programme(s)

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

MAIN PROGRAMME

[H2020-EU.3.1.7. - Innovative Medicines Initiative 2 \(IMI2\).](#)

Topic(s)

[IMI2-2020-23-05 - Shortening the path to Rare Disease diagnosis by using newborn genetic screening and digital technologies](#)

Call for proposal

[H2020-JTI-IMI2-2020-23-two-stage](#) 

[See other projects for this call](#)

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



UNIVERSITA DEGLI STUDI DI FERRARA

Net EU contribution

€ 691 786,00

Total cost

€ 1 404 286,25

Address

VIA ARIOSTO 35

44121 Ferrara



Region

Nord-Est > Emilia-Romagna > Ferrara

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Participants (40)



PFIZER LIMITED

United Kingdom

Net EU contribution

€ 0,00

Address

RAMSGATE ROAD

CT13 9NJ Sandwich



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

€ 3 500 000,00



OSPEDALE PEDIATRICO BAMBINO GESU

 Italy

Net EU contribution

€ 753 847,50

Address

PIAZZA SANT ONOFRIO 4

00165 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

€ 1 411 347,50



UNIVERSITAETSMEDIZIN GOETTINGEN - GEORG-AUGUST-UNIVERSITAET GOETTINGEN - STIFTUNG OEFFENTLICHEN RECHTS

 Germany

Net EU contribution

€ 931 361,25

Address

Robert-Koch-Strasse 40

37075 Goettingen 

Region

Niedersachsen > Braunschweig > Göttingen

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 931 361,25



UNIVERSITAET BERN

 Switzerland

Net EU contribution

€ 659 656,25

Address

HOCHSCHULSTRASSE 6
3012 Bern 

Region

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

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 659 656,25



SITEM-INSEL AG

 Switzerland

Net EU contribution

€ 308 217,50

Address

FREIBURGSTRASSE 18
3010 Bern 

SME 

Yes

Region

Activity type

Research Organisations

Links

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

Total cost

€ 308 217,50



BULGARIAN ASSOCIATION FOR PROMOTION OF EDUCATION AND SCIENCE

Bulgaria

Net EU contribution

€ 113 250,00

Address

BRATYA SVESHTAROVI STR 4
4017 Plovdiv

SME

Yes

Region

Югозападна и Южна централна България > Южен централен > Пловдив

Activity type

Other

Links

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

Total cost

€ 113 250,00



MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

Germany

Net EU contribution

€ 342 527,50

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

€ 342 527,50



UPPSALA UNIVERSITET

 Sweden

Net EU contribution

€ 675 785,00

Address

VON KRAEMERS ALLE 4

751 05 Uppsala 

Region

Östra Sverige > Östra Mellansverige > Uppsala län

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 675 785,00



SYDDANSK UNIVERSITET

 Denmark

Net EU contribution

€ 651 996,25

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

€ 1 041 996,25



RESEARCH INSTITUTE AG & CO KG



Austria

Net EU contribution

€ 273 410,00

Address

AMUNDSENSTRASSE 9

1170 Wien 

SME 

Yes

Region

Ostösterreich > Wien > Wien

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

€ 273 410,00



UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN

 Ireland

Net EU contribution

€ 373 013,75

Address

BELFIELD

4 Dublin 

Region

Ireland > Eastern and Midland > Dublin

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 373 013,75



COPENHAGEN BUSINESS SCHOOL

 Denmark

Net EU contribution

€ 62 106,25

Address

SOLBJERG PLADS 3

2000 Frederiksberg 

Region

Danmark > Hovedstaden > Byen København

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 62 106,25



CHARITE - UNIVERSITAETSMEDIZIN BERLIN

 Germany

Net EU contribution

€ 1 049 100,00

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

€ 1 049 100,00



EURICE EUROPEAN RESEARCH AND PROJECT OFFICE GMBH

 Germany

Net EU contribution

€ 485 375,00

Address

HEINRICH-HERTZ-ALLEE 1

66386 St Ingbert 

SME 

Yes

Region

Saarland > Saarland > Saarpfalz-Kreis

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

€ 485 375,00



UNIVERSITATSKLINIKUM BONN

 Germany

Net EU contribution

€ 0,00

Address

VENUSBERG-CAMPUS 1

53127 Bonn 

Region

Nordrhein-Westfalen > Köln > Bonn, 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

No data



BULGARIAN ASSOCIATION FOR PERSONALIZED MEDICINE

 Bulgaria

Net EU contribution

€ 113 471,25

Address

OBORISHTE DISTRICT, 45 BACHO KIRO S

1202 Sofia 

Region

Югозападна и Южна централна България > Югозападен > София (столица)

Activity type

Other

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 113 471,25



SBA RESEARCH GEMEINNUTZIGE GMBH



Austria

Net EU contribution

€ 309 750,00

Address

FLORAGASSE 7, 5 OG

1040 Wien 

Region

Ostösterreich > Wien > Wien

Activity type

Research Organisations

Links

[Contact the organisation](#) 

[Website](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 309 750,00



LUDWIG BOLTZMANN GESELLSCHAFT OSTERREICHISCHE VEREINIGUNG ZUR FORDERUNG DER WISSENSCHAFTLICHEN FORSCHUNG



Austria

Net EU contribution

€ 203 040,00

Address

NUSSDORFER STRASSE 64/6

1090 Wien 

Region

Ostösterreich > Wien > Wien

Activity type

Research Organisations

Links

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

Total cost

€ 203 040,00



UNIVERSITA DEGLI STUDI DI SIENA

Italy

Net EU contribution

€ 56 045,00

Address

VIA BANCHI DI SOTTO 55
53100 Siena



Region

Centro (IT) > Toscana > Siena

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 56 045,00



UNIVERZITA KARLOVA

Czechia

Net EU contribution

€ 0,00

Address

OVOCNY TRH 560/5

116 36 Praha 1 

Region

Česko > Praha > Hlavní město Praha

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



FINDZEBRA APS

 Denmark

Net EU contribution

€ 493 646,25

Address

RAADVADSVEJ 36
2400 Copenhagen 

SME 

Yes

Region

Danmark > Hovedstaden > Byen København

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

€ 493 646,25



GNX DATA SYSTEMS LTD

 Israel

Net EU contribution

€ 392 000,00

Address

58 NACHLAT BENJAMIN

6578403 Tel Aviv 

SME 

Yes

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

€ 392 000,00



UNIVERSITATSKLINIKUM ERLANGEN

 Germany

Net EU contribution

€ 490 000,00

Address

MAXIMILIANSPLATZ 2

91054 Erlangen 

Region

Bayern > Mittelfranken > Erlangen, 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

€ 490 000,00



EURORDIS - RARE DISEASES EUROPE

 France

Net EU contribution

€ 736 895,00

Address

RUE DIDOT 96

75014 Paris 

Region

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

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 736 895,00



FUNDACIO CENTRE DE REGULACIO GENOMICA

 Spain

Net EU contribution

€ 1 425,00

Address

CARRER DOCTOR AIGUADER 88

08003 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

€ 1 425,00



ILLUMINA CAMBRIDGE LIMITED

United Kingdom

Net EU contribution

€ 0,00

Address

ILLUMINA CENTRE 19 GRANTA PARK
CB21 6DF Great Abington

Region

East of England > East Anglia > Cambridgeshire CC

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

€ 500 000,00



LYSOGENE

France

Net EU contribution

€ 0,00

Address

18-20 RUE JACQUES DULUD
92200 Neuilly Sur Seine

SME

Yes

Region

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

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



NOVARTIS PHARMA AG

Switzerland

Net EU contribution
€ 0,00

Address
LICHTSTRASSE 35
4056 Basel

Region
Schweiz/Suisse/Svizzera > Nordwestschweiz > Basel-Stadt

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
€ 2 000 000,00



NOVO NORDISK A/S

Denmark

Net EU contribution
€ 0,00

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

€ 610 000,00



PROQR THERAPEUTICS NV

Netherlands

Net EU contribution

€ 0,00

Address

ZERNIKEDREEF 9
2333 CK Leiden

SME

Yes

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

€ 1 500 000,00



F. HOFFMANN-LA ROCHE AG

Switzerland

Net EU contribution

€ 0,00

Address

GRENZACHERSTRASSE 124
4070 Basel

Region

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

€ 800 000,00



SANOFI-AVENTIS RECHERCHE & DEVELOPPEMENT

France

Net EU contribution

€ 0,00

Address

82 AVENUE RASPAIL
94250 Gentilly

Region

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

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

€ 1 200 000,00



TAKEDA PHARMACEUTICALS INTERNATIONAL AG

Switzerland

Net EU contribution

€ 0,00

Address

THURGAUERSTRASSE 130

8152 Glattpark 

Region

Schweiz/Suisse/Svizzera > Zürich > Zürich

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

€ 1 500 000,00



CONSORZIO FUTURO IN RICERCA

 Italy

Net EU contribution

€ 120 000,00

Address

VIA G SARAGAT 1 BLOCCO B

44122 Ferrara 

Region

Nord-Est > Emilia-Romagna > Ferrara

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 120 000,00



UNIVERSITAETSKLINIKUM FREIBURG

 Germany

Net EU contribution

€ 1 119 459,00

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

€ 1 399 459,00



PTC THERAPEUTICS INTERNATIONAL LIMITED

 Ireland

Net EU contribution

€ 0,00

Address

70 SIR JOHN ROGERSON'S QUAY
D02R296 DUBLIN 

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

€ 135 000,00



UCB BIOPHARMA

 Belgium

Net EU contribution

€ 0,00

Address

ALLEE DE LA RECHERCHE 60
1070 Bruxelles / Brussel 

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

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

€ 353 605,00



WALLAC OY

 Finland

Net EU contribution

€ 0,00

Address

MUSTIONKATU 6
20750 Turku 

Region

Manner-Suomi > Etelä-Suomi > Varsinais-Suomi

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

€ 170 000,00



CENTRE HOSPITALIER REG UNIVERSITAIRE DIJON

 France

Net EU contribution

€ 142 861,25

Address

BOULEVARD MAL DE LATTRE DE TASSIGNY 2

21000 Dijon 

Region

Bourgogne-Franche-Comté > Bourgogne > Côte-d'Or

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 142 861,25



CONSORCIO PARA LA EXPLOTACION DEL CENTRO NACIONAL DE ANALISIS GENOMICO

 Spain

Net EU contribution

€ 388 543,75

Address

C BALDIRI 1 REIXAC 4

08028 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 388 543,75

Last update: 30 April 2025

Permalink: <https://cordis.europa.eu/project/id/101034427>

European Union, 2025

