

Imperial College London Participation

Missions

Introduction

This booklet comprises the Horizon Europe Project under the Cancer Mission that Imperial participate in as an Associated Partner. Funding from UKRI Horizon Guarantee.

Table of contents

| | |
|--|---|
| Discovering the causes of three poorly understood cancers in Europe (DISCERN) | 2 |
|--|---|

Discovering the causes of three poorly understood cancers in Europe

Fact Sheet

Project Information

DISCERN

Grant agreement ID: 101096888

DOI

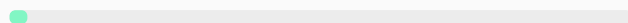
[10.3030/101096888](https://doi.org/10.3030/101096888) 

Start date

1 January 2023

End date

31 December 2027



Funded under

Health

Total cost

€ 8 857 814

EU contribution

€ 8 857 813

Coordinated by

CENTRE INTERNATIONAL DE
RECHERCHE SUR LE CANCER

 France

Objective

"The overall goal of DISCERN is to understand the causes of three poorly understood cancers in Europe; renal, pancreatic and colorectal cancer, and help to explain their geographical distribution, including their high incidence in central and eastern Europe. This will be achieved by combining large-scale European biorepositories comprising population-based cohorts and tumour case-series with state-of-the-art molecular profiling techniques and machine learning approaches. In particular, DISCERN will identify potential new causal risk factors for the three cancers using novel exposomics and proteomics scans, as well detailed geospatial and environmental exposure information from 16 large-scale epidemiological cohorts including almost 900,000 individuals. It will also explore biological mechanisms on how these risk factors are potentially causing these cancer types with a focus on promoting factors in normal tissues using deep sequencing, single cell multi-omics

and spatial proteomics. The causal effects of identified cancer risk factors and the cellular signalling responses they trigger will be further evaluated using a panel of stem cells and colon, renal and pancreatic 3D organoids. The results from DISCERN will be disseminated to citizens, patients and policy makers through collaborating patient and participant organizations. DISCERN will provide the critical evidence base required to develop new prevention strategies to tackle the growing burden of renal, pancreatic and colorectal cancer in Europe.

This action is part of the Cancer Mission cluster of projects on ""Understanding""."

Fields of science

[natural sciences](#) > [biological sciences](#) > [biochemistry](#) > [biomolecules](#) > [proteins](#) > **proteomics**

[medical and health sciences](#) > [medical biotechnology](#) > [cells technologies](#) > **stem cells**

[medical and health sciences](#) > [clinical medicine](#) > [oncology](#) > **colorectal cancer**

[natural sciences](#) > [computer and information sciences](#) > [artificial intelligence](#) > **machine learning**

Programme(s)

[HORIZON.2.1 - Health](#)

MAIN PROGRAMME

Topic(s)

[HORIZON-MISS-2021-CANCER-02-03 - Better understanding of the impact of risk factors and health determinants on the development and progression of cancer](#)

Call for proposal

[HORIZON-MISS-2021-CANCER-02](#)

[See other projects for this call](#)

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



CENTRE INTERNATIONAL DE RECHERCHE SUR LE CANCER

Net EU contribution

€ 2 147 553,75

Address

25 Avenue Tony Garnier

69007 Lyon 7eme

 France 

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Rhône

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Participants (17)



UNIVERSITEIT UTRECHT

 Netherlands

Net EU contribution

€ 701 782,50

Address

Heidelberglaan 8

3584 CS Utrecht 

Region

West-Nederland > Utrecht > Utrecht

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



Masarykova univerzita

Czechia

Net EU contribution

€ 646 218,75

Address

Zerotinovo Namesti 9

601 77 Brno

Region

Jihovýchod > Jihomoravský kraj

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Other funding

€ 0,00



FUNDACIO INSTITUT DE RECERCA BIOMEDICA (IRB BARCELONA)

Spain

Net EU contribution

€ 1 246 250,00

Address

Carrer Baldiri Reixac 10-12 Parc Scientific De Barcelona

08028 Barcelona

Region

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Other funding

€ 0,00



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

 France

Net EU contribution

€ 202 735,00

Address

147 Rue De L'universite
75007 Paris Cedex 07 

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](#) 

Other funding

€ 0,00




UNIVERSITEIT LEIDEN

 Netherlands

Net EU contribution

€ 1 622 925,00

Address

Rapenburg 70
2311 EZ Leiden 

Region

West-Nederland > Zuid-Holland > Agglomeratie Leiden en Bollenstreek

Activity type

Higher or Secondary Education Establishments

Links

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

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

HORIZON collaboration network [🌐](#)

Other funding

€ 0,00



KUNGLIGA TEKNISKA HOEGSKOLAN

Sweden

Net EU contribution

€ 1 238 595,00

Address

Brinellvagen 8

100 44 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](#) [🌐](#)

Other funding

€ 0,25



TARTU ULIKOOL

Estonia

Net EU contribution

€ 245 466,00

Address

Ulikooli 18

51005 Tartu [📍](#)





Region

Eesti > Eesti > Lõuna-Eesti

Activity type

Higher or Secondary Education Establishments

Links

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

Other funding

€ 0,25



STICHTING IKCC

 Netherlands

Net EU contribution

€ 87 500,00

Address

T Ven 30

1115 HB Duivendrecht 

Region

West-Nederland > Noord-Holland > Groot-Amsterdam

Activity type

Other

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



DIGESTIVE CANCERS EUROPE DICE

 Belgium

Net EU contribution

€ 87 500,00

Address

Rue De La Loi 235

1040 Brussels 

Region

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

Activity type

Other

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



UNIVERSITA DEGLI STUDI DI TORINO

 Italy

Net EU contribution

€ 148 946,00

Address

Via Giuseppe Verdi 8

10124 Torino 

Region

Nord-Ovest > Piemonte > Torino

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,25



INSTITUT CATALA D'ONCOLOGIA

 Spain

Net EU contribution

€ 118 750,00

Address

Av Gran Via De L'hospitalet 199-203

08908 L'hospitalet Del Llobregat 

Region

País Valencià > Castellón > Castellón

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00

 **THIRD-PARTY** 

FUNDACIO INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE

 Spain

Net EU contribution

€ 0,00

Address

Avenida Gran Via Hospitalet 199-203

08908 L'hospitalet De Llobregat 

Region

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



INSTYTUT MEDYCYNY PRACY IMIENIA PROF. DRA MED. JERZEGO NOFERA W LODZI

 Poland

Net EU contribution

€ 73 006,00

Address

Ul Sw Teresy Od Dzieciatka Jezus 8

91 348 Lodz 

Region

Makroregion centralny > Łódzkie > Łódzki

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Other funding

€ 0,25



NARODOWY INSTYTUT ONKOLOGII IM. MARII SKŁODOWSKIEJ-CURIE - PANSTWOWY INSTYTUT BADAWCZY

 Poland

Net EU contribution

€ 57 775,00

Address

**Ul. W K Roentgena 5
02-781 Warszawa** 

Region

Makroregion województwo mazowieckie > Warszawski stołeczny > Miasto Warszawa

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#)

Other funding

€ 0,00



ISTITUTO NEUROLOGICO MEDITERRANEO NEUROMED SOCIETA PER AZIONI

 Italy

Net EU contribution

€ 58 762,50

Address

Via Atinense 18

86077 Pozzilli Is 

SME 

Yes

Region

Sud > Molise > Isernia

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](#) 

Other funding

€ 0,00



UNIVERSITETET I TROMSOE - NORGES ARKTISKE UNIVERSITET

 Norway

Net EU contribution

€ 86 547,50

Address

Hansine Hansens Veg 14

9019 Tromso 

Region

Norge > Nord-Norge > Troms og Finnmark

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00



PANCREATIC CANCER EUROPE

 Belgium

Net EU contribution

€ 87 500,00

Address

Rue Montoyer 40
1000 Brussels 

Region

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

Activity type

Other

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Other funding

€ 0,00

Partners (2)



IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE

 United Kingdom

Net EU contribution

€ 0,00

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](#) 

Other funding

No data



THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD

 United Kingdom

Net EU contribution

€ 0,00

Address

Wellington Square University Offices
OX1 2JD Oxford 

Region

South East (England) > Berkshire, Buckinghamshire and Oxfordshire > Oxfordshire

Activity type

Higher or Secondary Education Establishments

Links

Contact the organisation  Website 

Participation in EU R&I programmes 

HORIZON collaboration network 

Other funding

No data

EC signature date: 6 December 2022

Last update: 9 December 2022

Record number: 243539

Permalink: <https://cordis.europa.eu/project/id/101096888>

© European Union, 2023