Next generation imaging technologies to probe structure and function of biological specimen across scales in their natural context

Fact Sheet

Project Information

**IMAGINE**
Grant agreement ID: 101094250

**DOI**
[10.3030/101094250](http://10.3030/101094250)

**Funded under**
Research infrastructures

**Total cost**
€ 9 569 677,50

**EU contribution**
€ 9 569 677,50

**Start date**
1 May 2023

**End date**
30 April 2028

**Coordinated by**
EUROPEAN MOLECULAR BIOLOGY LABORATORY

Germany

Project description

Next generation scale-crossing imaging technologies for research infrastructures

The EU-funded IMAGINE project focuses on developing and integrating major disruptive microscopy technologies to enable scale-crossing structural and functional investigation of biological specimens in their natural context. AI-powered image analysis capabilities will support technology integration and make data widely available. To harness the power of imaging for some of the most pressing societal challenges, IMAGINE will prepare its new imaging technologies to be deployed in the
field, on Europe's seas and coastlines, with the aim of coupling the collection of environmental specimens with their study using the highest resolution imaging. IMAGINE aims at making its new imaging technologies service ready and having them validated as future services by Europe's Imaging Research Infrastructures. The ultimate goal is to ensure wide use of the new technologies by the European life science community.

**Fields of science**

natural sciences > biological sciences > marine biology

natural sciences > physical sciences > optics > microscopy > super resolution microscopy

natural sciences > physical sciences > optics > microscopy > electron microscopy

natural sciences > physical sciences > optics > nonlinear optics

natural sciences > biological sciences > molecular biology > structural biology

**Keywords**

Imaging  technology  microscopy  synchrotron  X-ray  cryoEM  SRM  intravital  life science  structural biology  marine biology  AI  Data Analysis  Research Infrastructures  industrialization  training

**Programme(s)**

HORIZON.1.3 - Research infrastructures

HORIZON.1.3.3 - The innovation potential of European Research Infrastructures and activities for Innovation and Training

**Topic(s)**

HORIZON-INFRA-2022-TECH-01-01 - R&D for the next generation of scientific instrumentation, tools and methods

**Call for proposal**

2 of 14
HORIZON-INFRA-2022-TECH-01

See other projects for this call

Funding Scheme

RIA - Research and Innovation action

Coordinator

EUROPEAN MOLECULAR BIOLOGY LABORATORY

Net EU contribution

€ 5 165 212,50

Address

Meyerhofstrasse 1
69117 Heidelberg
Germany

Region

Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis

Links

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

Other funding

€ 0,00

Participants (17)

EURO-BIOIMAGING ERIC

Finland

Net EU contribution

€ 451 250,00

Address

Pl 123
20521 Turku
Region
Manner-Suomi > Etelä-Suomi > Varsinais-Suomi

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

Other funding
€ 0,00

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INSTRUCT-ERIC

United Kingdom
Net EU contribution
€ 1 012 895,00

Address
Oxford house, parkway court, john smith drive
OX4 2JY Oxford

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

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

Other funding
€ 0,00

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EUROPEAN MARINE BIOLOGICAL RESOURCE CENTRE EUROPEAN RESEARCH INFRASTRUCTURE CONSORTIUM

France
Net EU contribution
€ 121 250,00

Address
4 place jussieu
75005 Paris

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

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

Other funding
€ 0,00

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THIRD-PARTY

UNIVERSITEIT GENT

Belgium
Net EU contribution
€ 92 500,00

Address
Sint pietersnieuwstraat 25
9000 Gent

Region
Vlaams Gewest > Prov. Oost-Vlaanderen > Arr. Gent

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

Other funding
€ 0,00

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THIRD-PARTY

HELLENIC CENTRE FOR MARINE RESEARCH

Greece
Net EU contribution
€ 130 000,00

Address
Leoforos athens sounio 46 7km
19013 Attikia anavissos

Region
Αττική > Αττική > Ανατολική Αττική

Links
UNIVERSIDAD DEL PAIS VASCO/ EUSKAL HERRIKO UNIBERTSITATEA

Spain

Net EU contribution

€ 131 000,00

Address

Barrio sarriena s n
48940 Leioa

Region

Noreste > País Vasco > Bizkaia

ARINAX

France

Net EU contribution

€ 2 500,00

Address

365 rue de corporat
38430 Moirans

SME

Yes

Region

Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

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

Other funding
€ 0,00

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**KUNGLIGA TEKNISKA HOEGSKOLAN**

**Sweden**

Net EU contribution
€ 281 250,00

**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**
€ 0,00

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**EMBL ENTERPRISE MANAGEMENT TECHNOLOGY TRANSFER GMBH**

**Germany**

Net EU contribution
€ 2 500,00

**Address**
Boxbergring 107
69126 Heidelberg

**Region**
Baden-Württemberg > Karlsruhe > Heidelberg, Stadtkreis

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

Other funding

€ 0,00

LEICA MICROSYSTEMS CMS GMBH

Germany

Net EU contribution

€ 65 000,00

Address

Ernst leitz strasse 17-37
35578 Wetzlar

Region

Hessen > Gießen > Lahn-Dill-Kreis

Links

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

Other funding

€ 0,00

EUROPEAN SYNCHROTRON RADIATION FACILITY

France

Net EU contribution

€ 499 250,00

Address

71 avenue des martyrs
38000 Grenoble

Region
Auvergne-Rhône-Alpes > Rhône-Alpes > Isère

Activity type
Research Organisations

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

Other funding
€ 0,00

FONDAZIONE HUMAN TECHNOPOLE
Italy
Net EU contribution
€ 189 875,00

Address
Viale levi montalcini rita 1
20157 Milano

Region
Nord-Ovest > Lombardia > Milano

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

Other funding
€ 0,00

SORBONNE UNIVERSITE
France
Net EU contribution
€ 468 125,00

Address
21 rue de l'ecole de medecine
75006 Paris

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

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

Other funding
€ 0,00

CENTRO DE CIENCIAS DO MAR DO ALGARVE
Portugal
Net EU contribution
€ 320 500,00
Address
Universidade do algarve
8005-139 Faro
Region
Continente > Algarve > Algarve
Links
Contact the organisation Participation in EU R&I programmes HORIZON collaboration network

Other funding
€ 0,00

UNIVERSIDAD DE VIGO
Spain
Net EU contribution
€ 132 995,00
Address
Lg campus lagoas marcosende
36310 Vigo pontevedra
Region
Noroeste > Galicia > Pontevedra
Activity type
ACADEMISCH ZIEKENHUIS LEIDEN

Netherlands

Net EU contribution
€ 263 575,00

Address
Albinusdreef 2
2333 ZA Leiden

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

MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN EV

Germany

Net EU contribution
€ 240 000,00

Address
Hofgartenstrasse 8
80539 München

Region
Bayern > Oberbayern > München, Kreisfreie Stadt
Partners (4)

PAUL SCHERRER INSTITUT
Switzerland
Net EU contribution
€ 0,00
Address
Forschungstrasse 111
5232 Villigen psi
Region
Schweiz/Suisse/Svizzera > Nordwestschweiz > Aargau
Links
Contact the organisation ➤  Website ➤  Participation in EU R&I programmes ➤  HORIZON collaboration network ➤
Other funding
€ 0,00

TESCAN BRNO SRO
Czechia
Net EU contribution
€ 0,00
Address
Libusina trida 816/1 816
623 00 Brno kohoutovice
Region
Česko > Jihovýchod > Jihomoravský kraj
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

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THE ROSALIND FRANKLIN INSTITUTE

United Kingdom

Net EU contribution

€ 0,00

Address

Rosalind franklin institute building r113 rutherford appleton laboratory haewell campus OX11 0QX Didcot

Region

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

Links

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

Other funding

€ 0,00

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UNIVERSIDADE DO MINHO

Portugal

Net EU contribution

€ 0,00

Address

Largo do paco 4704 553 Braga

Region

Continente > Norte > Cávado
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

EC signature date 2 December 2022
Last update: 11 December 2022

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