MEDIRAD aims to enhance the scientific bases and clinical practice of radiation protection (RP) in the medical field and thereby addresses the need to understand and evaluate the health effects of low dose ionising radiation exposure from diagnostic and therapeutic imaging and from off-target effects in radiotherapy (RT).

MEDIRAD will pursue 3 major operational objectives: First, it will improve organ dose estimation and registration to inform clinical practice, optimise doses, set
recommendations and provide adequate dosimetry for clinical-epidemiological studies of effects of medical radiation. Second, it aims to evaluate and understand the effects of medical exposures, focusing on the two major endpoints of public health relevance: cardiovascular effects of low to moderate doses of radiation from RT in breast cancer treatment incl. understanding of mechanisms; and long-term effects on cancer risk of low doses from CT in children. Third, it will develop science-based consensus policy recommendations for the effective protection of patients, workers and the general public.

Within the 4-year project a multi-disciplinary consortium will, in close interaction with European medical associations, MELODI and EURADOS (1), develop a tool to determine image quality to maximise optimisation of RP in medical imaging, (2) improve and develop new individual organ/anatomical structure dosimetry from chest CT, I131 administration, fluoroscopy-guided procedures, hybrid imaging, and RT for breast cancer and interlinks with image quality measures, (3) conduct epidemiological studies of consequences of RT and CT, (4) identify potential novel imaging and circulating biomarkers and mechanisms of radiation effects, (5) develop innovative risk models, (6) develop and implement for the first time a European repository of patient dose and imaging data, (7) develop science-based recommendations, and (8) introduce novel approaches to bring together the nuclear and medical sectors.

**Fields of science**

- medical and health sciences > health sciences > public health > epidemiology
- medical and health sciences > clinical medicine > radiology > nuclear medicine
- medical and health sciences > clinical medicine > cardiology > cardiovascular diseases > arteriosclerosis
- medical and health sciences > clinical medicine > oncology > breast cancer
- engineering and technology > medical engineering > diagnostic imaging

**Programme(s)**

- H2020-Euratom - Euratom
- H2020-Euratom-1.4. - Foster radiation protection

**Topic(s)**

- NFRP-9 - Impacts of low dose radiation exposure
Call for proposal

NFRP-2016-2017

See other projects for this call

Sub call

NFRP-2016-2017-1

Funding Scheme

RIA - Research and Innovation action

Coordinator

EIBIR GEMEINNUTZIGE GMBH ZUR FORDERUNG DER ERFORSCHUNG DER BIOMEDIZINISCHEN BILDGEBUNG

Net EU contribution

€ 503 750,00

Address

Am gestade 1
1010 Wien

Austria

Region

Ostösterreich › Wien › Wien

Activity type

Research Organisations

Links

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

Other funding

€ 0,00

Participants (35)
FUNDACION PRIVADA INSTITUTO DE SALUD GLOBAL BARCELONA
Spain
Net EU contribution
€ 727 983,25
Address
C rossel 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
Other funding
€ 0,00

UNIVERSITE PARIS CITE
France
Net EU contribution
€ 260 876,25
Address
85 bd saint germain
75006 Paris
Region
Ile-de-France > Ile-de-France > Paris
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Participation in EU R&I programmes  HORIZON collaboration network
PANEPISTIMIO KRITIS
Greece
Net EU contribution
€ 364 000,00
Address
University campus gallos
74100 Rethimno
Region
Νησιά Αιγαίου > Κρήτη > Ρέθυμνο
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

THE ROYAL MARSDEN NATIONAL HEALTH SERVICE TRUST
United Kingdom
Net EU contribution
€ 678 902,50
Address
Fulham road 203-6
SW3 6JJ London
Region
London > Inner London — West > Kensington & Chelsea and Hammersmith & Fulham
Activity type
Research Organisations
Links
ACADEMISCH ZIEKENHUIS GRONINGEN
Netherlands
Net EU contribution
€ 871,447,75
Address
Hanzeplein 1
9713 GZ Groningen
Region
Noord-Nederland > Groningen > Overig Groningen
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

INSTITUT DE RADIOPROTECTION ET DE SURETE NUCLEAIRE
France
Net EU contribution
€ 854,591,25
Address
Av de la division leclerc 31
92260 Fontenay aux roses
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

Other funding
€ 0,00

---

OTTO-VON-GUERICKE-UNIVERSITAET MAGDEBURG

Germany

Net EU contribution
€ 329,728,75

Address
Universitaetsplatz 2
39106 Magdeburg

Region
Sachsen-Anhalt > Sachsen-Anhalt > Magdeburg, Kreisfreie Stadt

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

---

INSTITUTO POLITECNICO DE COIMBRA

Portugal

Net EU contribution
€ 188,800,00

Address
Rua da misericordia, lagar dos corticos
3045-093 Coimbra

Region
Continente > Centro (PT) > Região de Coimbra

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 0,00

VÄSTRA GÖTALANDSREGIONEN

Sweden
Net EU contribution
€ 130 000,00

Address
Regionens hus
462 80 Vanersborg

Region
Södra Sverige > Västsverige > Västra Götalands län

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

Other funding
€ 0,00

UNIVERSITAT POLITECNICA DE CATALUNYA

Spain
Net EU contribution
€ 62 500,00

Address
Calle jordi girona 31
08034 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  

Other funding
€ 0,00

---

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

Poland

Net EU contribution
€ 22 500,00

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
€ 0,00

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B-COM

France
UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAET
MAINZ
Germany
Net EU contribution
€ 194 952,50
Address
Langenbeckstrasse 1
55131 Mainz
Region
Rheinland-Pfalz > Rheinhessen-Pfalz > Mainz, Kreisfreie Stadt
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

UNIVERSITÄTSMEDIZIN DER JOHANNES GUTENBERG-UNIVERSITAET
MAINZ
Germany
Net EU contribution
€ 196 608,75
Address
Zac des champs blancs 1219 avenue des champs blancs
35510 Cesson sevigne
SME
Yes
Region
Bretagne > Bretagne > Ille-et-Vilaine
Activity type
Research Organisations
Links
Contact the organisation  Participation in EU R&I programmes  HORIZON collaboration network
Other funding
€ 0,00
UNIVERSITE DE GENEVE
Switzerland
Net EU contribution
€ 338 000,00
Address
Rue du general dufour 24
1211 Geneve
Region
Schweiz/Suisse/Svizzera > Région lémanique > Genève
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

HELMHOLTZ ZENTRUM MUNCHEN DEUTSCHES FORSCHUNGSZENTRUM FUER GESUNDHEIT UND UMWELT GMBH
Germany
Net EU contribution
€ 429 856,25
Address
Ingolstadter landstrasse 1
85764 Neuherberg
Region
Bayern > Oberbayern > München, Landkreis
Activity type
Research Organisations
STUDIECENTRUM VOOR KERNENERGIE / CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE

Belgium

Net EU contribution

€ 383,176,25

Address

Avenue herrmann debroux 40
1160 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

Research Organisations

UNIVERSITEIT GENT

Belgium

Net EU contribution

€ 337,550,00

Address

Sint pietersnieuwstraat 25
9000 Gent

Other funding

€ 0,00
**UNIVERSITAETSKLINIKUM WUERZBURG - KLINIKUM DER BAYERISCHEN JULIUS-MAXIMILIANS-UNIVERSITAT**

- **Region**: Bayern > Unterfranken > Würzburg, Kreisfreie Stadt
- **Net EU contribution**: € 224,786.25
- **Address**: Josef-schneider-strasse 2
  97080 Wurzburg
- **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
INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

France

Net EU contribution

€ 504 322,50

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

Other funding

€ 0,00

Associação para Investigação e Desenvolvimento da Faculdade de Medicina

Portugal
**Net EU contribution**

€ 444 517,85

**Address**

Av. prof. egas moniz 1649-028 Lisbon

**Region**

Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa

**Activity type**

Higher or Secondary Education Establishments

**Links**

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

**Other funding**

€ 0,00

---

**KLINIKUM RECHTS DER ISAR DER TECHNISCHEN UNIVERSITAT MUNCHEN**

Germany

**Net EU contribution**

€ 57 656,25

**Address**

Ismaninger strasse 22 81675 Muenchen

**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

**Other funding**

€ 0,00
UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA

Italy

Net EU contribution

€ 250,432.15

Address

Piazzale aldo moro 5
00185 Roma

Region

Centro (IT) > Lazio > Roma

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

---

UNIVERSITY OF BRISTOL

United Kingdom

Net EU contribution

€ 4,934.59

Address

Beacon house queens road
BS8 1QU Bristol

Region

South West (England) > Gloucestershire, Wiltshire and Bristol/Bath area > Bristol, City of

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
STICHTING VUMC
Netherlands
Net EU contribution
€ 160 625,00
Address
De boelelaan 1117
1081 HV Amsterdam
Region
West-Nederland > Noord-Holland > Groot-Amsterdam
Activity type
Research Organisations
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,00

UNIVERSITY OF NEWCASTLE UPON TYNE
United Kingdom
Net EU contribution
€ 199 615,00
Address
Kings gate
NE1 7RU Newcastle upon tyne
Region
North East (England) > Northumberland and Tyne and Wear > Tyneside
Activity type
Higher or Secondary Education Establishments
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
STICHTING HET NEDERLANDS KANKER INSTITUUT-ANTONI VAN LEEUWENHOEK ZIEKENHUIS

Netherlands
Net EU contribution
€ 263,971,69
Address
Plesmanlaan 121
1066 CX Amsterdam
Region
West-Nederland > Noord-Holland > Groot-Amsterdam
Activity type
Research Organisations
Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

UNIVERSITAT AUTONOMA DE BARCELONA

Spain
Net EU contribution
€ 279,875,00
Address
Edif a campus de la uab bellaterra cerdanyola v
08193 Cerdanyola del valles
Region
Este > Cataluña > Barcelona
Activity type
Higher or Secondary Education Establishments
ISTITUTO SUPERIORE DI SANITA
Italy
Net EU contribution
€ 50 625,00

Address
Viale regina elena 299
00161 Roma

Region
Centro (IT) > Lazio > Roma

Activity type
Research Organisations

UNIVERSITY COLLEGE DUBLIN, NATIONAL UNIVERSITY OF IRELAND, DUBLIN
Ireland
Net EU contribution
€ 46 848,75

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

Other funding
€ 0,00

INSTITUT CLAUDIUS REGAUD
France
Net EU contribution
€ 50 812,50
Address
1 avenue irene joliot-curie iuct-0
31059 Toulouse
Region
Occitanie > Midi-Pyrénées > Haute-Garonne
Activity type
Research Organisations

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

Other funding
€ 0,00

INSTITUT CATALA D'ONCOLOGIA
Spain
Net EU contribution
€ 100 002,50
Address
Av gran via de l'hospitalet 199-203
08908 L'hospitalet del llobregat
INSTITUT CATALA DE LA SALUT
Spain
Net EU contribution
€ 8 400,00
Address
Gran via de les corts catalanes 587
08007 Barcelona
Region
Este > Cataluña > Barcelona
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
Other funding
€ 0,00

IMPERIAL COLLEGE OF SCIENCE TECHNOLOGY AND MEDICINE
United Kingdom
Net EU contribution
€ 226 605,41
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
€ 0,00

MEDIZINISCHE HOCHSCHULE BRANDENBURG CAMPUS GMBH

Address
Fehrbelliner strasse 38
16816 Neuruppin

Region
Brandenburg > Brandenburg > Ostprignitz-Ruppin

Activity type
Higher or Secondary Education Establishments

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

Other funding
€ 0,00

Last update: 16 September 2022

Permalink: https://cordis.europa.eu/project/id/755523