Real-time Adaptive Particle Therapy of Cancer

Fact Sheet

Project Information

**RAPTOR**

Grant agreement ID: 955956

**DOI**

10.3030/955956

**Funded under**

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

**Total cost**

€ 3 967 111,08

**EU contribution**

€ 3 967 111,08

**Start date**

1 March 2021

**End date**

28 February 2025

**Coordinated by**

PAUL SCHERRER INSTITUT

Switzerland

Project description

**Personalised particle therapy**

Particle therapy (PT) is a form of radiotherapy that targets tumours with high accuracy, sparing healthy surrounding tissue. However, PT in its current format is time consuming and lacks flexibility, rendering it unsuitable for personalised treatments. To exploit the full benefits of PT, further optimisation is required related to changes in anatomy or organ motion. The EU-funded RAPTOR project aims to address these limitations and advance PT for real-time use. The project involves key industrial leaders, ensuring the rapid translation of the findings into innovative and marketable solutions that can be implemented in the clinic.
Fields of science

- medical and health sciences
  - basic medicine
  - anatomy and morphology
- medical and health sciences
  - clinical medicine
  - oncology

Programme(s)

- H2020-EU.1.3. - EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions (MAIN PROGRAMME)
- H2020-EU.1.3.1. - Fostering new skills by means of excellent initial training of researchers

Topic(s)

- MSCA-ITN-2020 - Innovative Training Networks

Call for proposal

- H2020-MSCA-ITN-2020

See other projects for this call

Funding Scheme

- MSCA-ITN - Marie Skłodowska-Curie Innovative Training Networks (ITN)

Coordinator

- PAUL SCHERRER INSTITUT

  Net EU contribution
  € 562 553,28

  Address
  Forschungstrasse 111
  5232 Villigen psi
  Switzerland

  Region
  Schweiz/Suisse/Svizzera > Nordwestschweiz > Aargau

  Activity type
  Research & Development
Participants (12)

AARHUS UNIVERSITET

- Denmark
- Net EU contribution: € 297,522.00

Address
Nordre ringgade 1
8000 Aarhus c

Region
Danmark > Midtjylland > Østjylland

Activity type
Higher or Secondary Education Establishments

GSI HELMHOLTZZENTRUM FUR SCHWERIONENFORSCHUNG GMBH

- Germany
- Net EU contribution: € 252,788.40

Address
Planckstrasse 1
64291 Darmstadt

Region
Hessen > Darmstadt > Darmstadt, Kreisfreie Stadt

Activity type
Other

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

Other funding
€ 0,00

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LUDWIG-MAXIMILIANS-UNIVERSITAET MUENCHEN

Germany

Net EU contribution
€ 252 788,40

Address
Geschwister scholl platz 1
80539 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

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TECHNISCHE UNIVERSITAET DRESDEN

Germany

Net EU contribution

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ACADEMISCH ZIEKENHUIS GRONINGEN
Netherlands
Net EU contribution
€ 531 239,76
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

UNIVERSITEIT VAN AMSTERDAM
Netherlands

Net EU contribution
€ 265,619,88

Address
Spui 21
1012WX Amsterdam

Region
West-Nederland > Noord-Holland > Groot-Amsterdam

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

UNIVERZA V LJUBLJANI

Slovenia

Net EU contribution
€ 239,956,92

Address
Kongresni trg 12
1000 Ljubljana

Region
Slovenija > Zahodna Slovenija > Osrednjeslovenska

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
POLITECNICO DI MILANO

Italy

Net EU contribution
€ 261 499.68

Address
Piazza leonardo da vinci 32
20133 Milano

Region
Nord-Ovest > Lombardia > Milano

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 UNIVERSITAET WIEN

Austria

Net EU contribution
€ 264 207.24

Address
Spitalgasse 23
1090 Wien

Region
Ostösterreich > Wien > Wien

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network
RAYSEARCH LABORATORIES AB (PUBL)

Sweden

Net EU contribution

€ 281,982,96

Address

Sveavagen 25
111 34 Stockholm

SME

Yes

Region

Östra Sverige > Stockholm > Stockholms län

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Other funding

€ 0,00

COSYLAB LABORATORIJ ZA KONTROLNE SISTEME DD

Slovenia

Net EU contribution

€ 239,956,92

Address

Gerbičeva ulica 64
1000 Ljubljana

SME

Yes

Region
MEDPHOTON GMBH

Austria

Net EU contribution

€ 264 207,24

Address

Karolingerstrasse 16
5020 Salzburg

SME

Yes

Region

Westösterreich > Salzburg > Salzburg und Umgebung

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Other funding

€ 0,00

EC signature date

3 September 2020

Last update: 16 December 2022

Permalink: https://cordis.europa.eu/project/id/955956