



INCREASING LUTETIUM PRODUCTION, WHILE LEVERAGING METABOLIC IMAGING TO ENHANCE THERANOSTICS EFFECTIVENESS

Fact Sheet

Project Information

ILLUMINATE

Grant agreement ID: 101172722

DOI

[10.3030/101172722](https://doi.org/10.3030/101172722)

EC signature date

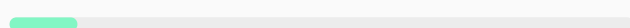
2 September 2024

Start date

1 October 2024

End date

31 March 2029



Funded under

Health

Total cost

€ 19 077 451,25

EU contribution

€ 11 589 148,25

Investment in EU policy priorities

Digital agenda



Clean air



Artificial Intelligence



Climate action



Biodiversity



Coordinated by

UNIVERSITAIR MEDISCH
CENTRUM UTRECHT

 Netherlands

Project description

Advancing antibody-radioisotope treatment

Antibody-radioisotope combinations are a targeted therapeutic approach that delivers radioactive isotopes directly to cancer cells by attaching them to antibodies specific to tumour antigens. This method improves treatment efficacy for resistant cancers while minimising damage to surrounding healthy tissue. The EU-funded ILLUMINATE project seeks to address the isotope shortage and side effects for about 30% of patients. Researchers will enhance imaging for better treatment response insights and personalised care. They will also increase isotope production through sustainable methods to ensure availability. Overall, ILLUMINATE is expected to improve radioisotope theranostics and manufacturing.

Fields of science (EuroSciVoc)

[medical and health sciences](#) > [clinical medicine](#) > [oncology](#).



Keywords

[Metabolic MRI](#)

[oncology](#)

[prostate cancer](#)

[theranostics](#)

[medicinal radionuclide production](#)

Programme(s)

[HORIZON.2.1 - Health](#)

MAIN PROGRAMME

[HORIZON.2.1.7 - Innovative Health Initiative](#)

Topic(s)

[HORIZON-JU-IHI-2023-05-02 - Development and proof of principle of new clinical applications of theranostics solutions](#)

Call for proposal

[HORIZON-JU-IHI-2023-05](#)

[See other projects for this call](#)

Funding Scheme

[HORIZON-JU-RIA - HORIZON JU Research and Innovation Actions](#)

Coordinator



UNIVERSITAIR MEDISCH CENTRUM UTRECHT

Net EU contribution

€ 2 561 000,00

Total cost

€ 2 561 000,00

Address

HEIDELBERGLAAN 100

3584 CX Utrecht

 Netherlands 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Participants (14)



EURO-BIOIMAGING ERIC

 Finland

Net EU contribution

€ 165 312,50

Address

PL 123

20521 Turku 

Region

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 165 312,50



PHILIPS MEDICAL SYSTEMS NEDERLAND BV

 Netherlands

Net EU contribution

€ 2 221 500,00

Address

VEENPLUIS 6

5684 PC Best 

Region

Zuid-Nederland > Noord-Brabant > Zuidoost-Noord-Brabant

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

€ 4 443 000,00



PHILIPS GMBH

 Germany

Net EU contribution

€ 692 000,00

Address

RONTGENSTRASSE 22

22335 Hamburg 

Region

Hamburg > Hamburg > Hamburg

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

€ 1 384 000,00



SYNLAB SDN SRL

 Italy

Net EU contribution

€ 500 000,00

Address

VIA FRANCESCO CRISPI 8

80121 Napoli 

Region

Sud > Campania > Napoli

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

€ 1 000 000,00



CONSIGLIO NAZIONALE DELLE RICERCHE

 Italy

Net EU contribution

€ 250 625,00

Address

PIAZZALE ALDO MORO 7
00185 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

€ 250 625,00



UNIVERSITA DEGLI STUDI DI TORINO

 Italy

Net EU contribution

€ 249 875,00

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](#) 

Total cost

€ 249 875,00



BRACCO IMAGING SPA



Italy

Net EU contribution

€ 500 000,00

Address

VIA EGIDIO FOLLI 50

20134 Milano 

Region

Nord-Ovest > Lombardia > Milano

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

€ 1 502 500,00



TESLA DYNAMIC COILS BV

 Netherlands

Net EU contribution

€ 500 000,00

Address

SCHIMMINCK 12

5301KR Zaltbommel 

SME 

Yes

Region

Oost-Nederland > Gelderland > Zuidwest-Gelderland

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



WAVETRONICA BV

Netherlands

Net EU contribution

€ 250 317,00

Address

PADUALAAN 8 ROOM Z109

3584 CH Utrecht

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

€ 750 950,00



LUNDS UNIVERSITET

Sweden

Net EU contribution

€ 566 212,50

Address

Paradisgatan 5c

22100 Lund

Region

Södra Sverige > Sydsverige > Skåne län

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 566 212,50



NUCLEAR RESEARCH AND CONSULTANCY GROUP

 Netherlands

Net EU contribution

€ 1 000 000,00

Address

WESTERDUINWEG 3

1755 LE Petten 

Region

West-Nederland > Noord-Holland > Kop van Noord-Holland

Activity type

Other

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 2 571 670,00



STICHTING AMSTERDAM UMC

 Netherlands

Net EU contribution

€ 465 643,75

Address

DE BOELELAAN 1117

1081 HV Amsterdam 

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 465 643,75



UNIVERSITAETSKLINIKUM ESSEN

 Germany

Net EU contribution

€ 648 400,00

Address

HUFELANDSTRASSE 55

45147 Essen 

Region

Nordrhein-Westfalen > Düsseldorf > Essen, 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

€ 648 400,00



STICHTING LYGATURE

 Netherlands

Net EU contribution

€ 1 018 262,50

Address

JAARBEURSPLEIN 6

3521 AL Utrecht 

SME 

Yes

Activity type

Other

Links

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

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

Total cost

€ 1 018 262,50

Last update: 9 September 2024

Permalink: <https://cordis.europa.eu/project/id/101172722>

European Union, 2025