

HORIZON
2020

Early Detection of cancer onset based on sensing field cancerization at the organ level

Fact Sheet

Project Information

SENSITIVE

Grant agreement ID: 801347

[Project website](#)

DOI

[10.3030/801347](https://doi.org/10.3030/801347)

Project closed

EC signature date

3 May 2018

Start date

1 November 2018

End date

31 October 2022

Funded under

EXCELLENT SCIENCE - Future and Emerging Technologies (FET)

Total cost

€ 2 965 326,25

EU contribution

€ 2 965 326,25

Coordinated by

IDRYMA IATROVIOLOGIKON
EREUNON AKADEMIAS
ATHINON
 Greece

Project description

Innovative imaging to detect cancer-prone regions in tissues and organs

Tumours of the gastrointestinal tract account for over 20% of new cancer cases and many are fatal. Prevention and early diagnosis are critical to clinical outcome, but the majority of cases remain asymptomatic until advanced stages, and biomarkers for early detection are not always available. Early cancer stages are accompanied by

tissue changes that cannot be easily detected by current scanning technologies. It means that a whole tissue region can be prone to cancer or that a tissue segment larger than the tumour is affected. The EU-funded SENSITIVE project aims to develop imaging methodologies for the detection of tumour-prone regions and early detection or assessment of tumour margins during treatment.

Fields of science (EuroSciVoc)

[natural sciences](#) > [computer and information sciences](#) > [software](#)

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

[natural sciences](#) > [physical sciences](#) > [optics](#) > [microscopy](#)

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

[natural sciences](#) > [physical sciences](#) > [optics](#) > [spectroscopy](#)



Keywords

[Field Cancerization](#)

[Raman Spectroscopy](#)

[Stimulated Raman Spectroscopy](#)

[Scattering](#)

[Spectroscopy](#)

[Multimodal Microscopy](#)

[Endoscopic Raman Spectroscopy](#)

[Multivariate Statistics](#)

[Tissue Characterization](#)

Programme(s)

[H2020-EU.1.2. - EXCELLENT SCIENCE - Future and Emerging Technologies \(FET\)](#)

MAIN PROGRAMME

[H2020-EU.1.2.1. - FET Open](#)

Topic(s)

[FETOPEN-01-2016-2017 - FET-Open research and innovation actions](#)

Call for proposal

[H2020-FETOPEN-2016-2017](#) 

[See other projects for this call](#)

Sub call

H2020-FETOPEN-1-2016-2017

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



IDRYMA IATROVIOLOGIKON EREUNON AKADEMIAS ATHINON

Net EU contribution

€ 541 812,50

Total cost

€ 541 812,50

Address

SORANOU EFESIOU 4

115 27 Athina

 **Greece** 

Region

Αττική > Αττική > Κεντρικός Τομέας Αθηνών

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Participants (6)



**HELMHOLTZ ZENTRUM MUENCHEN DEUTSCHES FORSCHUNGSZENTRUM
FUER GESUNDHEIT UND UMWELT GMBH**

 Germany

Net EU contribution

€ 697 876,25

Address

INGOLSTADTER LANDSTRASSE 1
85764 Neuherberg 

Region

Bayern > Oberbayern > München, Landkreis

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 697 876,25



UNIVERSIDAD CARLOS III DE MADRID

 Spain

Net EU contribution

€ 362 187,50

Address

CALLE MADRID 126
28903 Getafe (Madrid) 

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 362 187,50



ACADEMISCH ZIEKENHUIS GRONINGEN

 Netherlands

Net EU contribution

€ 438 781,25

Address

HANZEPLEIN 1

9713 GZ Groningen 

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 438 781,25



RAYFOS LTD

 United Kingdom

Net EU contribution

€ 231 918,75

Address

WINTON HOUSE WINTON SQUARE

RG21 8EN Basingstoke 

SME 

Yes

Region

South East (England) > Hampshire and Isle of Wight > North Hampshire

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

€ 231 918,75



EXELIXIS DIACHEIRISI EREVNAS KAI EPIKOINONIA EE

Greece

Net EU contribution

€ 134 625,00

Address

**KLEISTHENOUS 187
153 44 GERAkas ATTIKI**

SME

Yes

Region

Αττική > Αττική > Ανατολική Αττική

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

€ 134 625,00



RIVERD INTERNATIONAL BV

Netherlands

Net EU contribution

€ 558 125,00

Address

**MARCONISTRAAT 16
3029 AK Rotterdam**

SME

Yes

Region

Oost-Nederland > Overijssel > Twente

Activity type

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

Links

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

[HORIZON collaboration network](#) 

Total cost

€ 558 125,00

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European Union, 2025