Metabolic Imaging with RF Antennas to predict Chemotherapy Efficacy

Fact Sheet

Project Information

MIRACLE

Grant agreement ID: 851122

Project website

DOI
10.3030/851122

Project closed

EC signature date
30 April 2019

Start date
1 May 2019

End date
31 July 2021

Funded under
EXCELLENT SCIENCE - Future and Emerging Technologies (FET)

Total cost
€ 102 500,00

EU contribution
€ 100 000,00

Coordinated by
UNIVERSITAIR MEDISCH CENTRUM UTRECHT
Netherlands

Project description

An imaging approach that can predict chemotherapy efficacy

Being able to predict the response of patients to chemotherapy would undoubtedly be beneficial for patient well-being, avoiding the unnecessary toxic side effects. The metabolites phosphoethanolamine (PE) and glycerophosphocholine (GPC) are involved in cell membrane metabolism, and the PE to GPC ratio goes up during malignant transformation of cells. The EU-funded MIRACLE project aims to validate this ratio as a biomarker of predicting cancer treatment response. Scientists will

assess these phospholipid biomarkers in patients in a non-invasive manner using MRI under different field strengths. The results of the study have the potential to bring the approach a step closer to regulatory clearance for clinical use.

Fields of science (EuroSciVoc)

medical and health sciences > clinical medicine > **surgery**

medical and health sciences > clinical medicine > **radiology**

medical and health sciences > clinical medicine > oncology > **breast cancer**

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-03-2018-2019-2020 - FET Innovation Launchpad

Call for proposal

H2020-FETOPEN-2018-2020

See other projects for this call

Sub call

H2020-FETOPEN-2018-2019-2020-03

Funding Scheme

CSA - Coordination and support action

Coordinator

UNIVERSITAIR MEDISCH CENTRUM UTRECHT

Net EU contribution

€ 18 750,00

Total cost

€ 21 250,00

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 (2)

REGENTS OF UNIVERSITY OF MINNESOTA

United States

Net EU contribution

€ 18 750,00

Address

OAK STREET SE 200 MCNAMARA ALUMNI CENTER 450
55455 2070 Minneapolis Mn

Activity type

Higher or Secondary Education Establishments

Links

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

Total cost

€ 18 750,00

WAVETRONICA BV

Netherlands

Net EU contribution

€ 62 500,00

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

€ 62 500,00

Last update: 10 September 2022

Permalink: https://cordis.europa.eu/project/id/851122