

HORIZON
2020

PORTABLE PLATFORM FOR THE ASSESSMENT OF MICROVASCULAR HEALTH IN COVID-19 PATIENTS AT THE INTENSIVE CARE

Fact Sheet

Project Information

VASCOVID

Grant agreement ID: 101016087

[Project website](#) 

DOI

[10.3030/101016087](https://doi.org/10.3030/101016087) 

Project closed

EC signature date

22 September 2020

Start date

1 December 2020

End date

31 May 2023

Funded under

SOCIETAL CHALLENGES - Health, demographic change and well-being

Total cost

€ 2 457 976,59

EU contribution

€ 2 041 348,25

Coordinated by

FUNDACIO INSTITUT DE CIENCIES FOTONIQUES



Spain

Project description

New portable solution for scarce ICU resources

Healthcare systems around the world have been overwhelmed by the surge in seriously ill COVID-19 patients who require intensive care unit (ICU) admission. While exact rates differ per EU Member State, 3–12 % of the infected population

need mechanical ventilation. The personalisation of treatment will allow for the more targeted rationing of scarce ICU resources. With this in mind, the EU-funded VASCOVID project is developing a portable, non-invasive and real-time health monitoring platform that combines time-resolved near-infrared spectroscopy and diffuse correlation spectroscopy. The solution will enable the large-scale testing of new treatment procedures and therapies, targeting microvascular impairment. Moreover, it will reduce the incidence of extubation failure (reintubation within seven days) in ICUs.

Fields of science (EuroSciVoc)

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > [agriculture](#) > [horticulture](#) > **[fruit growing](#)**

[medical and health sciences](#) > [clinical medicine](#) > **[critical care medicine](#)**

[medical and health sciences](#) > [health sciences](#) > [infectious diseases](#) > [RNA viruses](#) > **[coronaviruses](#)**

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

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



Keywords

[biophotonics](#)

[tissue oxygenation](#)

[endothelial dysfunction](#)

[cardio-pulmonary interactions](#)

[near-infrared spectroscopy](#)

[intensive-care patient management](#)

[ventilator weaning](#)

[bed-side monitoring](#)

Programme(s)

[H2020-EU.3.1. - SOCIETAL CHALLENGES - Health, demographic change and well-being](#)

MAIN PROGRAMME

Topic(s)

[SC1-PHE-CORONAVIRUS-2020-2B - Medical technologies, Digital tools and Artificial Intelligence \(AI\), analytics to improve surveillance and care at high Technology Readiness Levels \(TRL\)](#)

Call for proposal

[H2020-SC1-PHE-CORONAVIRUS-2020-2](#) 

[See other projects for this call](#)

Sub call

H2020-SC1-PHE-CORONAVIRUS-2020-2-CNECT

Funding Scheme

[IA - Innovation action](#)

Coordinator



FUNDACIO INSTITUT DE CIENCIES FOTONIQUES

Net EU contribution

€ 607 972,69

Total cost

€ 620 255,46

Address

AVINGUDA CARL FRIEDRICH GAUSS 3

08860 Castelldefels

 **Spain** 

Region

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Participants (7)



POLITECNICO DI MILANO

 Italy

Net EU contribution

€ 267 600,33

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](#) 

Total cost

€ 267 600,34



CORPORACIO SANITARIA PARC TAULI DE SABADELL

 Spain

Net EU contribution

€ 222 302,24

Address

PARC TAULI S/N

08208 Sabadell 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 222 302,24



HEMOPHOTONICS SL

 Spain

Net EU contribution

€ 124 743,71

Address

AVENIDA CARL FRIEDRICH GAUSS 3 OFICINA 346 MEDITERRANEAN TECHNOLOGY PARK

08860 Castelldefels 

SME 

Yes

Region

Este > Cataluña > Barcelona

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

€ 178 205,30



SPLENDO CONSULTING BV

 Netherlands

Net EU contribution

€ 353 446,93

Address

MARINEWEG 5

2241 TX Wassenaar 

SME 

Yes

Region

West-Nederland > Zuid-Holland > Agglomeratie 's-Gravenhage

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

€ 504 924,18



BIOPIXS LIMITED

Ireland

Net EU contribution

€ 167 557,45

Address

**3 MONASTERY MEWS-BLARNEY STREET
T23HW11 CORK**

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

€ 239 367,79



ASPHALION SL

Spain

Net EU contribution

€ 182 179,30

Address

**CALLE TARRAGONA, NUMEROS 151-157, PLANTA 10, BLOQU
08014 Barcelona**

SME 

Yes

Region

Este > Cataluña > Barcelona

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

€ 260 256,14



PIONIRS SRL

 Italy

Net EU contribution

€ 115 545,60

Address

VIA TIMAVO 24

20124 Milano 

SME 

Yes

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

€ 165 065,14

Last update: 27 February 2024

Permalink: <https://cordis.europa.eu/project/id/101016087>

European Union, 2025

