

**HORIZON
2020**

Clinical evaluation of carbons of controlled porosity as a new therapeutic for the treatment of liver cirrhosis and non-alcoholic fatty liver disease.

Fact Sheet

Project Information

CARBALIVE

Grant agreement ID: 634579

[Project website](#) 

DOI

[10.3030/634579](https://doi.org/10.3030/634579) 

Project closed

EC signature date

7 April 2015

Start date

1 May 2015

End date

31 January 2021

Funded under

SOCIETAL CHALLENGES - Health, demographic change and well-being

Total cost

€ 9 579 686,54

EU contribution

€ 5 913 079,75

Coordinated by

UNIVERSITY COLLEGE LONDON

 United Kingdom

Objective

Chronic liver disease affects about 29-million Europeans accounting for about 170,000 deaths at a cost of around €15.8bn. This chronic non-communicable disease is increasing at an alarming rate due to increasing European obesity, alcohol use and ageing. The three main causes of the disease; alcohol, fatty liver and viral

hepatitis are amenable to prevention and treatment. Gut-derived endotoxins and bacterial translocation are central factors implicated in the pathogenesis of fatty liver disease and, the development and progression of cirrhosis. In cirrhosis, current state-of-the-art therapy to prevent recurrent complications of advanced cirrhosis is to use poorly absorbed antibiotics but long-term antibiotic therapy has problems associated with bacterial resistance, infection with resistant organisms and the cost. Treatment of fatty liver and modulation of bacterial translocation in early cirrhosis to prevent complications is an unmet need. Our academic-industrial consortium has developed a novel, patented, safe and cheap nanoporous carbon that modulates the effects of bacterial translocation in animal models of liver disease. Our feasibility studies demonstrate that this product advances the current state-of-the-art, is a TRL 4/5 and is now ready for validation through clinical trials. We propose to investigate the safety and efficacy of this novel nanoporous carbon in patients with fatty liver disease and cirrhosis. If successful, we will be able to confirm an innovative, cost-effective and novel strategy for the management of this chronic disease in a European population. Exploitation of the results of the CARBALIVE project will support the continued development of this carbon through additional private and public sector investment. The use of this innovative therapy is expected to reduce the economic burden of the disease in Europe, allow patients to achieve enhanced quality of life, improve survival, and allow many patients to return to economic productivity.

Fields of science (EuroSciVoc)

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

[social sciences](#) > [economics and business](#) > [economics](#) > [production economics](#) > **[productivity](#)**

[medical and health sciences](#) > [basic medicine](#) > [pharmacology and pharmacy](#) > [pharmaceutical drugs](#) > **[antibiotics](#)**

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

[medical and health sciences](#) > [health sciences](#) > [nutrition](#) > **[obesity](#)**



Keywords

Nanoporous carbon

Liver cirrhosis

NAFLD

Programme(s)

Topic(s)

[PHC-13-2014 - New therapies for chronic non-communicable diseases](#)

Call for proposal

[H2020-PHC-2014-2015](#) 

[See other projects for this call](#)

Sub call

H2020-PHC-2014-two-stage

Funding Scheme

[RIA - Research and Innovation action](#)

Coordinator



UNIVERSITY COLLEGE LONDON

Net EU contribution

€ 1 826 222,81

Total cost

€ 1 826 222,81

Address

GOWER STREET

WC1E 6BT London

 **United Kingdom** 

Region

London > Inner London — West > Camden and City of London

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Participants (17)



MAST CARBON INTERNATIONAL LTD

United Kingdom
Net EU contribution
€ 398 495,13

Address

JAYS CLOSE VIABLES
RG22 4BA 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](#)
- [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost
€ 398 495,13



ALPHA BIORESEARCH, SL

Spain
Net EU contribution
€ 598 250,00

Address

CALLE LOPEZ DE HOYOS 155 3 PUERTA 6 7
28002 Madrid

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

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

€ 598 250,00



UNIVERSITY OF BRIGHTON

United Kingdom

Net EU contribution

€ 178 750,00

Address

LEWES ROAD MITHRAS HOUSE
BN2 4AT Brighton

Region

South East (England) > Surrey, East and West Sussex > Brighton and Hove

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#) [Website](#)
- [Participation in EU R&I programmes](#)
- [HORIZON collaboration network](#)

Total cost

€ 178 750,00



A2F ASSOCIATES LIMITED

United Kingdom

Net EU contribution

€ 137 500,00

Address

7 LAUREATE PADDOCKS
CB8 OAP Newmarket 

SME 

Yes

Region

East of England > East Anglia > Suffolk

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

€ 137 500,00



FUNDACIO DE RECERCA CLINIC BARCELONA-INSTITUT D INVESTIGACIONS BIOMEDIQUES AUGUST PI I SUNYER

 Spain

Net EU contribution

€ 83 750,00

Address

CARRER ROSSELLO 149
08036 Barcelona 

Region

Este > Catalunya > Barcelona

Activity type

Research Organisations

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 93 750,00



THIRD-PARTY 

HOSPITAL CLINIC DE BARCELONA

 Spain

Net EU contribution

€ 10 000,00

Address

CALLE VILLARROEL 170

08036 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 10 000,00



UNIVERSITA DEGLI STUDI DI PADOVA 

 Italy

Net EU contribution

€ 51 351,69

Address

VIA 8 FEBBRAIO 2

35122 Padova 

Region

Nord-Est > Veneto > Padova

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#) 

Total cost

€ 51 351,69

 THIRD-PARTY 

AZIENDA OSPEDALE UNIVERSITA PADOVA 

 Italy

Net EU contribution

€ 0,00

Address

VIA NICOLO GIUSTINIANI 1

35128 Padova 

Region

Nord-Est > Veneto > Padova

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



FUNDACIO HOSPITAL UNIVERSITARI VALL D'HEBRON - INSTITUT DE RECERCA

 Spain

Net EU contribution

€ 93 750,00

Address

PASSEIG VALL D HEBRON 119-129 EDIFICIO DE RECERCA

08035 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

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

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

Total cost

€ 93 750,00

 THIRD-PARTY

INSTITUT CATALA DE LA SALUT 

 Spain

Net EU contribution

€ 0,00

Address

GRAN VIA DE LES CORTS CATALANES 587
08007 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

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

[HORIZON collaboration network](#) 

Total cost

No data



ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA

 Italy

Net EU contribution

€ 93 750,00

Address

VIA ZAMBONI 33
40126 Bologna 

Region

Nord-Est > Emilia-Romagna > Bologna

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
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- [HORIZON collaboration network](#)

Total cost

€ 93 750,00



FACULDADE DE MEDICINA DA UNIVERSIDADE DE LISBOA

Portugal

Net EU contribution

€ 76 000,00

Address

AVENIDA PROFESSOR EGAS MONIZ, EDIFICIO HOSPITAL SANTA MARIA
1649-028 Lisboa

Activity type

Higher or Secondary Education Establishments

Links

- [Contact the organisation](#)
- [Participation in EU R&I programmes](#)
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Total cost

€ 76 000,00



SERVICIO MADRILENO DE SALUD

Spain

Net EU contribution

€ 93 750,00

Address

Paseo De la Castellana, 280
28046 MADRID

Region

Comunidad de Madrid > Comunidad de Madrid > Madrid

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 93 750,00



UNIVERSITAET BERN

Switzerland

Net EU contribution

€ 0,00

Address

HOCHSCHULSTRASSE 6
3012 Bern

Region

Schweiz/Suisse/Svizzera > Espace Mittelland > Bern / Berne

Activity type

Higher or Secondary Education Establishments

Links

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

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

[HORIZON collaboration network](#)

Total cost

€ 318 405,00



ASSISTANCE PUBLIQUE HOPITAUX DE PARIS

France

Net EU contribution

€ 18 277,19

Address

55 BOULEVARD DIDEROT
75012 Paris

Region
Ile-de-France > Ile-de-France > Paris

Activity type
Research Organisations

Links
[Contact the organisation](#) [Website](#)
[Participation in EU R&I programmes](#)
[HORIZON collaboration network](#)

Total cost
€ 18 277,19



YAQRIT LIMITED

United Kingdom
Net EU contribution
€ 2 170 732,93

Address
**THE ELMS COURTYARD, BROMESBERROW
HR8 1RZ Ledbury**

SME
Yes

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
€ 5 518 934,72



EUROPEAN FOUNDATION FOR THE STUDY OF CHRONIC LIVER FAILURE (EF-CLIF)

Spain
Net EU contribution
€ 82 500,00

Address

TRAVESSERA DE GRACIA 11, 7TH FLOOR
08021 Barcelona 

Region

Este > Cataluña > Barcelona

Activity type

Research Organisations

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Total cost

€ 82 500,00

Last update: 6 September 2024

Permalink: <https://cordis.europa.eu/project/id/634579>

European Union, 2025