Decoding Gut microbiota-modulation of Memory

Fact Sheet

Project Information

REMEMBER

Grant agreement ID: 101067741

Funded under
Marie Skłodowska-Curie Actions (MSCA)

DOI
10.3030/101067741

Project terminated on 31 October 2022

Total cost
€ 0,00

EU contribution
€ 215 534,40

Coordinated by
UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK

Ireland

Project description

The gut microbiome and vagus nerve as modulators of memory

The gut microbiome is critical to health and well-being, linked to the digestive, cardiovascular, immune and nervous systems’ functioning. Imbalance has been associated with depression, anxiety and cognitive dysfunction, including memory impairment in Alzheimer’s disease and schizophrenia. The vagus nerve, part of the parasympathetic nervous system, establishes bidirectional communication between gut microbiota and the brain along the so-called gut-brain axis. The vagus nerve and gut microbiota could thus be important in treatments to partially restore memory function. With the support of the Marie Skłodowska-Curie Actions programme, the REMEMBER project will investigate the connection between the microbiome, vagus
nerve and memory via state-of-the-art viral tracing, behavioural tests, microbiome-vagal manipulations and in vivo electrophysiology.

**Fields of science**

medical and health sciences > health sciences > public health  
medical and health sciences > basic medicine > neurology > dementia > alzheimer  
medical and health sciences > basic medicine > physiology  
medical and health sciences > clinical medicine > psychiatry > schizophrenia

natural sciences > biological sciences > microbiology

**Keywords**

memory  
hippocampus  
gut microbiota-brain axis  
vagus nerve  
virus tracing  
microbiome manipulation  
in vivo electrophysiology  
optogenetics  
cell type  
synapse  
behaviour  
network oscillations

**Programme(s)**

HORIZON.1.2 - Marie Skłodowska-Curie Actions (MSCA)  

**Topic(s)**

HORIZON-MSCA-2021-PF-01-01 - MSCA Postdoctoral Fellowships 2021

**Call for proposal**

HORIZON-MSCA-2021-PF-01

See other projects for this call

**Funding Scheme**
Coordinator

UNIVERSITY COLLEGE CORK - NATIONAL UNIVERSITY OF IRELAND, CORK

Net EU contribution
€ 215,534,40

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Region
Ireland > Southern > South-East

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

Other funding
€ 0,00

Partners (2)

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

United States

Net EU contribution
€ 0,00

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Links
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Participation in EU R&I programmes
HORIZON collaboration network
ALLEN INSTITUTE

United States

Net EU contribution
€ 0,00

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Activity type
Research Organisations

Links

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

Other funding
€ 0,00

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