Innovative treatment for extrapulmonary benefits in COPD: effects and mechanisms of supramaximal High-Intensity Training

Fact Sheet

Project Information

COPD-HIT
Grant agreement ID: 101078602

Funded under
European Research Council (ERC)

DOI
10.3030/101078602

Total cost
€ 1 490 438,00

EU contribution
€ 1 490 438,00

Start date
1 July 2023

End date
30 June 2028

Coordinated by
UMEA UNIVERSITET

Sweden

Project description

Effects of supramaximal high-intensity training on brain, muscle and heart health

The mortality rate in chronic obstructive pulmonary disease (COPD) patients is often attributed to extrapulmonary manifestations. New treatment modalities beyond the lungs are needed. The EU-funded COPD-HIT project will improve our understanding of the development and treatment of extrapulmonary manifestations in COPD. It will focus on brain health, muscle quality and cardiac function. The project will conduct multicentre randomised controlled and experimental trials to assess the impact of supramaximal high-intensity training on the brain, muscles and heart. It will also study
the relationship between exercise and inflammation and their effect on neurodegeneration. COPD HIT will also develop an in vitro model to analyse the signalling pathways activated by different levels of loading intensities.

Fields of science

natural sciences  >  biological sciences  >  neurobiology
social sciences  >  sociology  >  demography  >  mortality

Keywords

high-intensity interval training  COPD  skeletal muscle  cognitive dysfunction
limb muscle dysfunction

Programme(s)

HORIZON.1.1 - European Research Council (ERC)  MAIN PROGRAMME

Topic(s)

ERC-2022-STG - ERC STARTING GRANTS

Call for proposal

ERC-2022-STG

See other projects for this call

Funding Scheme

ERC - Support for frontier research (ERC)

Coordinator
UMEA UNIVERSITET

Net EU contribution
€ 1 490 438,00

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

Other funding
€ 0,00

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