Revealing the contribution of liver macrophage populations to NASH in insulin resistance

Fact Sheet

Project Information

MacinNASH
Grant agreement ID: 864788

Funded under
EXCELLENT SCIENCE - European Research Council (ERC)

Total cost
€ 1 999 781,00

EU contribution
€ 1 999 781,00

Project terminated on 28 February 2023

DOI
10.3030/864788

Project Information

Coordinated by
KAROLINSKA INSTITUTET Sweden

Project description

Role of liver macrophages in the development of non-alcoholic steatohepatitis

Non-alcoholic steatohepatitis (NASH) is the most common chronic liver disease worldwide with debilitating consequences for patients and a lack of approved therapies. Obesity-associated insulin resistance represents a high-risk factor for the development of NASH. The current explanation for NASH development involves lipid accumulation in the liver of obese patients leading to oxidative stress and increased production of inflammatory cytokines by liver macrophages (LMs). The working
hypothesis of the EU-funded MacinNASH project is that LMs predispose insulin-resistant patients to NASH independently of their inflammatory status. The multidisciplinary project will use multiple single-cell and in situ omics technologies tailored to identify genes and pathways involved in the development of NASH in obese insulin-resistant patients.

Fields of science

natural sciences › biological sciences › biochemistry › biomolecules › lipids
medical and health sciences › clinical medicine › hepatology

Keywords

Liver Macrophages Insulin resistance obesity non-alcoholic steatohepatitis

Programme(s)

H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council (ERC)

Topic(s)

ERC-2019-COG - ERC Consolidator Grant

Call for proposal

ERC-2019-COG

See other projects for this call

Funding Scheme

ERC-COG - Consolidator Grant

Coordinator
KAROLINSKA INSTITUTET

Net EU contribution
€ 1 999 781,00

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

Other funding
€ 0,00

Beneficiaries (1)