Decoding Extracellular Vesicle-mediated organ crosstalk in vivo

Fact Sheet

Project Information

**CROSSTALK**

Grant agreement ID: 101075975

**DOI**

10.3030/101075975

**Funded under**

European Research Council (ERC)

**Total cost**

€ 1 500 000,00

**EU contribution**

€ 1 500 000,00

**Start date**

1 July 2023

**End date**

30 June 2028

**Coordinated by**

UNIVERSITEIT UTRECHT

Netherlands

Project description

**The transparent zebrafish reveals details about extracellular vesicle-mediated organ crosstalk**

Our knowledge of cell signalling via circulating metabolic hormones underlying homeostasis (maintenance of the overall functioning of an organism at “normal” levels) is extensive. More recently, new methods of interorgan crosstalk have emerged as important regulators of health and disease. Extracellular vesicles (EVs) that encapsulate and move bioactive cargo between cells likely play a key role, but studying this experimentally is challenging. The ERC-funded CROSSTALK project will do so using a well-known and well-characterised model system, the transparent zebrafish. Focusing on EVs secreted by the liver, the central metabolic hub in
vertebrates, the project will achieve the first advanced mapping of endogenous EV inter-organ crosstalk in a living model organism.

**Fields of science**

- medical and health sciences > basic medicine > physiology > **pathophysiology**
- natural sciences > biological sciences > **cell biology**
- natural sciences > biological sciences > biochemistry > biomolecules > **lipids**
- medical and health sciences > basic medicine > **pathology**
- medical and health sciences > clinical medicine > **embryology**

**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**

- UNIVERSITEIT UTRECHT

  Net EU contribution

  € 1 500 000,00
EC signature date 20 December 2022
Last update: 29 December 2022

Permalink: https://cordis.europa.eu/project/id/101075975

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