Host-virus interactions in marine diatoms across environmental and ecophysiological gradients

Fact Sheet

Project Information

InterDiVE
Grant agreement ID: 101076118

DOI
10.3030/101076118

Funded under
European Research Council (ERC)

Total cost
€ 1 868 196,00

EU contribution
€ 1 868 196,00

Coordinated by
BAR ILAN UNIVERSITY
Israel

Project description

The role of phytoplankton viruses on marine ecology

In the open ocean, organic matter from the surface sinks into the abyss, transporting carbon and energy. Since viruses play a key role in controlling phytoplankton populations, they influence the dynamics of the carbon cycle in the marine ecosystem. Funded by the European Research Council, the InterDiVE project focuses on how viral infection affects diatoms, transparent algae that constitute a key component of the ocean’s phytoplankton. Researchers will investigate the context of diatom-virus interactions and provide insight into the associated environmental stressors. Expected results have a broader ecological implication, as they will help understand how ocean processes respond to global climate change.
Fields of science

natural sciences > biological sciences > marine biology

natural sciences > biological sciences > microbiology > virology

natural sciences > physical sciences > astronomy > planetary sciences > planets

natural sciences > earth and related environmental sciences > atmospheric sciences > climatology > climatic changes

natural sciences > earth and related environmental sciences > geochemistry > biogeochemistry

Programme(s)

HORIZON.1.1 - European Research Council (ERC)

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

BAR ILAN UNIVERSITY

Net EU contribution
€ 1 868 196,00

Address

Bar ilan university campus
52900 Ramat gan
Israel
Activity type

Higher or Secondary Education Establishments

Links

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

Other funding
€ 0,00

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European Union, 2023