Evolutionary dynamics of genomic erosion and its application in biodiversity conservation

Fact Sheet

Project Information

ERODE
Grant agreement ID: 101078303

DOI
10.3030/101078303

Funded under
European Research Council (ERC)

Total cost
€ 1 500 000,00

EU contribution
€ 1 500 000,00

Coordinated by
KOBENHAVNS UNIVERSITET
Denmark

Project description

Studying the impact of genomic erosion on biodiversity

Human actions have damaged biodiversity worldwide. Many wild populations are in the path of decline and, unfortunately, at this point simply slowing or reversing this decline is not sufficient to restore healthy wildlife populations long-term. This is partly due to genomic erosion, where wild populations lose the genetic diversity they require to be resilient. To address this issue, the EU-funded ERODE project will examine the effects of genomic erosion and create potential solutions to prevent or reverse it. The project will initially focus on studying the genomic changes in three endangered bird species over the past three decades. The results will be used to
develop computer models and identify ways to conserve and restore biodiversity for future generations.

**Fields of science**

natural sciences > biological sciences > genetics
natural sciences > biological sciences > evolutionary biology
natural sciences > biological sciences > biodiversity conservation

**Keywords**

Conservation  Biodiversity  Genomics  Modelling  Predicting
Forecasting  Management  Endangered  Birds  Genetic load
Functional variation  Neutral variation

**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

KOBENHAVNS UNIVERSITET

Net EU contribution

€ 1 500 000,00

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Region

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Links

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

Other funding

€ 0,00

EC signature date 20 February 2023
Last update: 5 April 2023

Permalink: https://cordis.europa.eu/project/id/101078303

European Union, 2023