



# How to break Mendel's laws? The role of sexual conflict in the evolution of unusual transmission genetics

## Fact Sheet

### Project Information

#### PGErepro

Grant agreement ID: 803932

[Project website](#)

#### DOI

[10.3030/803932](https://doi.org/10.3030/803932)

#### EC signature date

25 October 2018

#### Start date

1 January 2019

#### End date

30 June 2025

#### Funded under

EXCELLENT SCIENCE - European Research Council (ERC)

#### Total cost

€ 1 494 055,00

#### EU contribution

€ 1 494 055,00

#### Coordinated by

THE UNIVERSITY OF  
EDINBURGH

 United Kingdom

## Project description

### New insights on non-Mendelian reproduction

Gregor Mendel, known as the "father of genetics," discovered the fundamental laws of inheritance through his work on pea plants. He realised that genes come in distinct pairs which are inherited as units, one from each parent. There have been instances, however, when Mendel's laws have been broken and the transmission of alleles becomes unequal. The EU-funded PGErepro project will investigate why, when and how the transmission of genes from one generation to the next departs from Mendel's laws. The project will focus on the impact of different types of sexual conflict as well

as on species with extreme reproductive asymmetry known as paternal genome elimination.

## Fields of science (EuroSciVoc)

[natural sciences](#) > [biological sciences](#) > [genetics](#) > **[chromosomes](#)**

[natural sciences](#) > [biological sciences](#) > [genetics](#) > **[genomes](#)**

[social sciences](#) > **[law](#)**



## Keywords

[sexual conflict](#)

[transmission genetics](#)

[sex determination](#)

[entomology.](#)

[genomic imprinting](#)

[reproduction](#)

[meiotic drive](#)

## Programme(s)

[H2020-EU.1.1. - EXCELLENT SCIENCE - European Research Council \(ERC\)](#)

MAIN PROGRAMME

## Topic(s)

[ERC-2018-STG - ERC Starting Grant](#)

## Call for proposal

[ERC-2018-STG](#)

[See other projects for this call](#)

## Funding Scheme

[ERC-STG - Starting Grant](#)

# Host institution



## THE UNIVERSITY OF EDINBURGH

Net EU contribution

€ 1 494 055,00

Total cost

€ 1 494 055,00

Address

**OLD COLLEGE, SOUTH BRIDGE**

**EH8 9YL Edinburgh**

**United Kingdom**

Region

**Scotland > Eastern Scotland > Edinburgh**

Activity type

**Higher or Secondary Education Establishments**

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

## Beneficiaries (1)

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European Union, 2025