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Determinants of sexually antagonistic selection in a wild mammal population

Fact Sheet

Project Information

SEXANTSEL

Grant agreement ID: 221852

Project closed

Start date

1 November 2008

End date

31 October 2010

Funded under

Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities (2007 to 2013)

Total cost

€ 168 823,92

EU contribution

€ 168 823,92

Coordinated by

THE UNIVERSITY OF
EDINBURGH

 United Kingdom

Objective

Selective pressures on males and females may be very different, leading to differences between the sexes (i.e. sexual dimorphism) in sexual ornamentation, weaponry, as well as body size, in many species. Such different selective pressures on males and females may result in sexually antagonistic selection on the two sexes:

genes that are advantageous when expressed in males, may be disadvantageous when expressed in females. Given that sexual dimorphism is very abundant, it is likely that sexually antagonistic effects are very common in nature. Sexually antagonistic may have important implications for the maintenance of genetic variation and sexual selection in natural populations. However, the study of sexual antagonism is still in its infancy, and most evidence comes from laboratory studies. With this project I aim to make an important contribution to the study of sexual antagonism, by studying sexually antagonistic effects and their phenotypic and genetic determinants in a wild mammal population. I will use a multidisciplinary approach, combining advanced molecular genetics methods and ecological field data. The proposed project will furthermore be of vital importance to advancing my career as an independent researcher in ecological and evolutionary research.

Fields of science (EuroSciVoc)

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

[natural sciences](#) > [biological sciences](#) > [molecular biology](#) > [molecular genetics](#)

[natural sciences](#) > [biological sciences](#) > [zoology](#) > [mammalogy](#)



Keywords

[Animal ecology](#)

[Evolutionary biology](#)

[Inter-sexual genetic conflict](#)

[Molecular ecology](#)

[Natural populations](#)

[Quantitative genetics](#)

[Sex linkage](#)

[Sexually antagonistic selection](#)

[Soay sheep](#)

Programme(s)

[FP7-PEOPLE - Specific programme "People" implementing the Seventh Framework Programme of the European Community for research, technological development and demonstration activities \(2007 to 2013\)](#)

Topic(s)

[PEOPLE-2007-2-1.IEF - Marie Curie Action: "Intra-European Fellowships for Career Development"](#)

Call for proposal

FP7-PEOPLE-2007-2-1-IEF

[See other projects for this call](#)

Funding Scheme

[MC-IEF - Intra-European Fellowships \(IEF\)](#)

Coordinator



THE UNIVERSITY OF EDINBURGH

EU contribution

€ 168 823,92

Total cost

No data

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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](#) 

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European Union, 2025

