

Examensarbete

Degree project

Dept of Evolutionary Biology

Evolutionary Biology Centre

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Sex-specific inbreeding depression

Mating with your close relative is often a bad idea, because your offspring run a great risk of getting a genetic disease. Genes coding for genetic diseases are something most individuals carry, but despite this only a few get sick. The reason to this is that most deleterious mutations are recessive, why two copies of the same disease gene is required to express the disease. Offspring from parents that carry deleterious mutations at different positions in the genome are therefor not affected, while offspring from closely related parents that carry the same disease genes have a higher risk of getting sick.

Are sons and daughters then affected by inbreeding depression to the same extent and by the same genes - do disease genes have the same effect in both males and females. These questions have yet no firm answer, and the aim of this project is to investigate these in the fruit fly, *Drosophila melanogaster*.



If you are interested in conducting an experiment on the effect of inbreeding depression and its consequences for males and females, do not hesitate to contact us!

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