

Topic/Title (Norwegian)

Populasjonsgenomikk av norske *Xestobium rufovillosum* populasjoner

Topic/Title (English)

Population genomics in Norwegian Deathwatch beetle (*Xestobium rufovillosum*) populations



Summary

Deathwatch beetles are specialized to live in decaying hardwoods, especially in hollow oaks. Due to timber and ship building industry, many native Norwegian oak forests have been lost over the past centuries resulting in reduction and fragmentation of Deathwatch beetle populations. We have collected genomic data from many isolated populations to test if past habitat fragmentation has decreased genetic variability and increased the differentiation between subpopulations.

In this project the student will produce SNP matrices for ~90 Deathwatch beetles and perform population genomic analyses to assess the structure and differentiation within and between subpopulations. Additionally, we will test if certain allelic variants are correlated with climatic or geographic patterns.

Subject area

Population genomics, bioinformatics, molecular ecology

Language thesis

English

Bachelor or Master thesis

Master thesis

Credits

60

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