



Topic/Title

Genetisk variasjon i tidleg overleving eigenskapar hos laks.

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Genetic variation in early survival traits in Atlantic salmon.

Summary

The student will conduct an experiment with families of Atlantic salmon from fertilization to first feeding and analyze the recorded survival traits during this period with the objective to obtain reliable genetic parameters for the traits.

Background:

High survival in all life stages in all animal production is of great importance to obtain a reliable production with high resource efficiency. Survival may be improved by proper management procedure, but also by selective breeding if the traits show genetic variation.

The topic of this thesis:

The main objective is to obtain estimates of the genetic variation for early survival traits in Atlantic salmon and of the genetic correlations between the traits. The student will acquire knowledge in how to plan and perform an experiment, how to analyze the recorded survival data by use of the statistical software package ASReml, and how to interpret the result output.

Type of work:

Conduct an experiment at breeding nucleus facility with at least 100 families (with two replicates of 50 newly fertilized eggs). Record dead eggs at the eyed-egg stage and at hatching, and dead alevins until first feeding, and analyze the recorded data.

Language thesis (Norwegian and/or English)

Optional

Master thesis, Credits 60

Project/company

Nofima



Bachelor or Master thesis BIOVIT 2021/22

Please contact



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