

Topic/Title (Norwegian)

Topic/Title (English)

Gene expression profile of Atlantic salmon eggs exposed to hydrogen sulphide

Picture



Summary (Describe the topic/thesis, type of thesis work: field work, laboratory work, literature study)

Our current understanding about the role of H_2S in fish is focused on how the endogenously produced form plays a crucial role in oxygen detection and intercellular signalling. Little is known how exogenously generated H_2S impacts the host physiology. This aspect is highly relevant for salmon, since the land-based production faces threats on H_2S -associated mortality.

In this suggested thesis, the student will investigate the consequences of H_2S on the early life stage of salmon.

Some of the activities include:

- exposure of eggs to H_2S
- transcriptomics
- qPCR
- whole mount *in situ* hybridisation
- microscopy

Subject area (keywords)

gene expression, ecotoxicology, fish health, molecular biology, aquaculture

Language thesis (Norwegian and/or English)



English

Bachelor or Master thesis

Credits

Project/company

Nofima

Please contact

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