



HydroCen

NORWEGIAN RESEARCH CENTRE
FOR HYDRO POWER TECHNOLOGY



Norges forskningsråd

eDNA; new technology for assessing biodiversity in lakes and rivers

Host	HydroCen, NINA
Project manager	Line Sundt-Hansen
Project period	2021 - 2025
Key personell	Frode Fossøy, Markus Majaneva
Research partners	NINA

Background

Environmental DNA (eDNA) is currently revolutionizing biodiversity assessment in lakes and rivers. The new technology can detect single species and species communities simply by analyzing a small water sample. In HydroCen, we use eDNA to assess ecological water quality and impacts of hydropower regulation on biodiversity, and to evaluate how environmental design can be used to reduce negative impacts on ecological water quality.

NINA holds key expertise within the field of eDNA and has experience in analyzing individual key species, as well as larger fish communities and biodiversity in general.

Potential for cooperation

The aim of the webinar is to present new development within eDNA-methodology and discuss possible collaboration in using eDNA for assessing biodiversity in lakes and rivers.

Relevant projects and ongoing work

- Development of sampling and preservation of eDNA (HydroCen)
- Testing genetic markers for assessing macrobenthos (HydroCen)
- Evaluating impact of weirs on biodiversity in River Nea (HydroCen)
- Detection of alien invasive species
- Locating red-listed rare species

Contact persons:



Line E. Sundt-hansen
Line.sundt-ansen@nina.no
 +47 98421195



Frode Fossøy
Frode.fossøy@nina.no
 +4799693404



Markus Majaneva
markus.majaneva@nina.no
 +4740645589