

15th November 2018: Challenges and actions taken to improve fish welfare in Nordic aquaculture

Seminar Program:

Time	Tentative title	Speaker	Affiliation	Country
09:30-09:35	Welcome and practical information	Cecilie Mejdell	NVI	Norway
09:35-09:55	Sentience in fish: pain and the role of consciousness Brief overview: aquaculture in the Nordic&Baltics	Janicke Nordgren Pekka Hyvärinen, Sarah Vallin, Brit Tørud, David Arney,	NMBU	Norway
10:00-10:15	Cognition in fish: How smart are fish?	Tore Kristiansen/ Cecilie Mejdell	MRI	Norway
10:15-10:45	Fish farming in the Nordic&Baltic area – a brief overview	Pekka Hyvärinen, Brit Tørud, Sara Vallin, David Arney, Per Hjelmstedt,	Many	Many
	Coffee & stretch legs			
11:05-11:20	Measuring welfare – welfare indicators	Stine Gismervik	NVI	Norway
11:20-11:40	Enriching the captive environment of fish – why and how	Pekka Hyvärinen	Luke	Finland
11:40-12:00	Practical work with fish health – the fish health service	David Persson	AVF	Norway/ Sweden
12:00-12:20	A non-invasive method for fish health control: e-DNA	Ilka Nousiainen/ David Arney	Estonian University	Estonia
	Lunch			
13:10-13:30	Cleaner fish - welfare concerns	Trygve Poppe	NMBU	Norway
13:30-13:50	Future farming technologies in large scale fish farming - perspectives	Leif Magne Sunde	Sintef	Norway
13:50-14:10	New technology - same old problems?	Bjørn Olav Rosseland	NMBU	Norway
	Short break			
14:30-14:50	Gene technology/CRISPR - welfare and ethics implications	Hilde Mellegård	Bioteknologi-rådet	Norway
14:50-15:20	Fish slaughter: Is there a humane way to harvest and slaughter farmed fish?	Albin Gräns	SLU	Sweden
15:20-15:50	Welfare actions in fisheries	Hanne Digre	Sintef	Norway
15:50-16:00	Concluding remarks, end of seminar	Lotta Berg	SLU	Sweden

Poster: Evaluation of marking methods in farmed salmonids for tracing purposes – Impacts on fish welfare (Norwegian Scientific Committee, Dean Basic)

Poster: Cleaner fish in aquaculture – Risks of infectious disease spread to farmed salmon (Norwegian Scientific Committee, Dean Basic)