GILL HEALTH INITIATIVE MEETING 2023

MEETING PROGRAMME

DAY 1: 25 October 2023

TIME	PROGRAMME
10.00-10.05	**WELCOME:** Mona Gjessing / Christine Huynh
10.05-10.15	**Gill Health initiative 10 year Anniversary** Hamish Rodger
10.15-11.10	**INTERNATIONAL SECTOR UPDATE:** *Chair: Christine Huynh* **Australia/New Zealand** **Chile** **Norway** **Scotland** **Ireland**
	GILL HEALTH MANAGEMENT, PART I *Chair: Ingunn Sommerset*
11.10-11.50	**KEYNOTE:** *Gill diseases; Field experiences and possible interpretations*, Magnus Nyborg, Kvamvet
11.50-12.10	**BREAK: COFFEE AND FRUIT**
12.10-12.30	*Using gill mucus to monitor immune gene expression of farmed Atlantic salmon* Amanda Vang, Fiskaaling
12.30-12.50	*Longitudinal analysis of the gill microbiomes of Atlantic salmon from four Scottish farms reveals dynamics in bacterial richness and seasonal trends in diversity.* Will J. Barr , University of Glasgow
12.50-13.10	*Clinical blood biochemistry as a predictive tool for managing gill challenges,* Josip Barisic, WellFish Diagnostics
13.10-13.30	*Temporal assessment of gill health during natural outbreak of AGD* Sam Martin, University of Aberdeen
13.30-14.10	**BREAK: LIGHT LUNCH**

TIME	PROGRAMME
	GILL HEALTH MANAGEMENT, PART II *Chair: Ingunn Sommerset*
14.10-14.30	*Scotland's SAIC funded "Gill Health in Scottish Farmed Salmon" project 2018 – 2023: Highlights,* Annette Boerlage, Scotland's Rural College
14.30-14.50	*NeoGiant, a natural alternative treatment for Amoebic Gill Disease* Gaston Caspe, Moredun Research Institute
14.50-15.10	*Agile training to help enable standardisation of phytoplankton sampling and gross gill terminology across the Scottish sector* Janina Costa, Sustainable Aquaculture Innovation Centre (SAIC)
	MODEL SYSTEMS *Chair: Annette Boerlage*
15.10-15.30	*Optimization of transfection methods and gene editing of the Atlantic salmon gill cell line ASG-10* Maria Dahle, Norwegian Veterinary Institute
15.30-15.50	*The Atlantic salmon gill epithelial cell line ASG-10 as tool for in vitro gill research* Anita Solhaug, Norwegian Veterinary Institute
15.50-16.10	**BREAK: COFFEE AND CAKES**
	GILL HEALTH AND ARTIFICIAL INTELLIGENCE *Chair: Christine Huynh*
16.10-16.30	*Harnessing the power of computer vision to provide early warning of jellyfish in fish farms* Kylie Pitt, Griffith University, Queensland
16.30-16.50	*Artificial Intelligence for computer-assisted diagnosis of hyperplasia in Atlantic salmon gill histology images* Alexander F. B. Carmichael, University of Stirling
16.50-17.10	*Digital pathology and specific markers: opportunities to expedite and harmonize microscopic gill assessment* Ole Bendik Dale, Norwegian Veterinary Institute

![Veterinærinstituttet — Norwegian Veterinary Institute]

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MEETING PROGRAMME

DAY 2: 26 October 2023

TIME	PROGRAMME
	HARMFULL PLANKTON BLOOMS AND THEIR IMPACT ON GILL HEALTH *Chair: James Wynne*
09.00-09.20	***Harmful phytoplankton, cnidarian blooms and fish farms*** Ana Herrero, Patogen AS
09.20-09.40	***Mechanisms, monitoring, and mitigation for harmful plankton in salmon aquaculture*** Connor Dibble, Scoot Science
09.40-10.00	***Developing an experimental model for gill disease caused by gelatinous zooplankton*** Hamish Rodger
10.00-10-20	**BREAK: COFFEE AND FRUIT**
	AMOEBA AND GILL PATHOLOGY *Chair: Renate Johansen*
10.20-10.40	**Insights into the viability and infective potential of *Neoparamoeba perurans* post freshwater exposure**, James Wynne, CSIRO
10.40-11.00	***Metagenomic analysis of Nodular Gill Disease in rainbow trout in Switzerland*** James Wynne, CSIRO
11.00-11.20	***Gill pathology as part of systemic infectious disease in farmed Atlantic salmon (Salmo salar)***, Marta Alarcón, Pharmaq Analytiq
11.20-11.40	***Gill transcriptomics of autumn and spring Atlantic salmon smolts***, Ela Krol, University of Aberdeen
11.40-12.00	***Progression of gill health in RAS***, Mark Powell, RASLAb AS
12.00- 12.20	***Insights into AGD lesion topography and pathophysiology,*** James Wynne, CSIRO
12.20-12.50	**BREAK, LIGHT LUNCH**

TIME	PROGRAMME
	GILL HEALTH AND WELFARE *Chair: Brit Tørud*
12.50-13.10	***Gill health from analog descriptions to digital quantification: towards standards,*** Karin Anna Pittman, University og Bergen, Quantidoc AS
	Ontogeny: New technique to assess gill health and animal welfare in salmonids - Clinical cases, Patricio Bustos, ADL Diagnostic Chile
13.10-13.30	***Leveraging an Integrated Fish Welfare Index to drive operational decisions,*** Iwen Su, Scoot Science
13.30-13.50	***GILL PROJECT CHILE,*** Daniel Woywood Wijnanat, Aquabench
13.50-14.10	**CLOSING AND CONCLUSIONS** *Christine Huynh*

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