

Scotland's Rural College

## Agile training to help enable standardisation of phytoplankton sampling and gross gill terminology across the Scottish sector

Costa, Janina; Couto-Phoenix, Jillian; Boerlage, AS; Thomson, MET; Soutar, Ronnie

Print publication: 25/10/2023

### *Document Version*

Publisher's PDF, also known as Version of record

[Link to publication](#)

### *Citation for published version (APA):*

Costa, J., Couto-Phoenix, J., Boerlage, AS., Thomson, MET., & Soutar, R. (2023). *Agile training to help enable standardisation of phytoplankton sampling and gross gill terminology across the Scottish sector*. Abstract from Gill Health Initiative 2023, Oslo, Norway.

### **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

### **Take down policy**

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.



# GILL HEALTH INITIATIVE MEETING 2023

RED CROSS CONFERENCE CENTER, HAUSMANNSGATE 5, OSLO

## MEETING PROGRAMME

DAY 1: 25 October 2023

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

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



# GILL HEALTH INITIATIVE MEETING 2023

RED CROSS CONFERENCE CENTER, HAUSMANNSGATE 5, OSLO

DAY 2: 26 October 2023

## MEETING PROGRAMME

TIME	PROGRAMME
	<p><b>HARMFUL PLANKTON BLOOMS AND THEIR IMPACT ON GILL HEALTH</b> <i>Chair: James Wynne</i></p>
09.00-09.20	<b>Harmful phytoplankton, cnidarian blooms and fish farms</b> Ana Herrero, Patogen AS
09.20-09.40	<b>Mechanisms, monitoring, and mitigation for harmful plankton in salmon aquaculture</b> Connor Dibble, Scoot Science
09.40-10.00	<b>Developing an experimental model for gill disease caused by gelatinous zooplankton</b> Hamish Rodger
10.00-10.20	<b>BREAK: COFFEE AND FRUIT</b>
	<p><b>AMOEBA AND GILL PATHOLOGY</b> <i>Chair: Renate Johansen</i></p>
10.20-10.40	<b>Insights into the viability and infective potential of <i>Neoparamoeba perurans</i> post freshwater exposure</b> , James Wynne, CSIRO
10.40-11.00	<b>Metagenomic analysis of Nodular Gill Disease in rainbow trout in Switzerland</b> James Wynne, CSIRO
11.00-11.20	<b>Gill pathology as part of systemic infectious disease in farmed Atlantic salmon (<i>Salmo salar</i>)</b> , Marta Alarcón, Pharmaq Analytiq
11.20-11.40	<b>Gill transcriptomics of autumn and spring Atlantic salmon smolts</b> , Ela Krol, University of Aberdeen
11.40-12.00	<b>Challenges and Opportunities in Addressing Amoebic Gill Disease (AGD) in Salmon Farming: A Global Perspective</b> , Per Kristian Sætre, Aqua Pharma Group
12.00-12.40	<b>BREAK, LIGHT LUNCH</b>

TIME	PROGRAMME
	<p><b>GILL HEALTH AND WELFARE</b> <i>Chair: Brit Tørud</i></p>
12.40-13.00	<b>Gill health from analog descriptions to digital quantification: towards standards</b> , Karin Anna Pittman, University of Bergen, Quantidoc AS
13.00-13.20	<b>Ontogeny: New technique to assess gill health and animal welfare in salmonids - Clinical cases</b> , Patricio Bustos, ADL Diagnostic Chile
13.20-13.40	<b>Leveraging an Integrated Fish Welfare Index to drive operational decisions</b> , Iwen Su, Scoot Science
13.40-14.00	<b>GILL PROJECT CHILE</b> , Daniel Woywood Wijnanat, Aquabench
14.00-14.20	<b>CLOSING AND CONCLUSIONS</b> <i>Christine Huynh</i>

