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Scotland's Rural College

Longitudinal Analysis of the Gill microbiomes of Atlantic Salmon from four Scottish farms reveals dynamics in bacterial richness and seasonal trends in diversity.

Barr, Will; Stewart, Kelly; Boerlage, AS; Ijaz, Umar; Smith, Cindy

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L HEALTH INITIATIVE MEETING 2023

RED CROSS CONFERENCE CENTER, HAUSMANNSGATE 5, OSLO

DAY 1: 25 October 2023

MEETING PROGRAMME

TIME	PROGRAMME	TIME	PROGRAMME
10.00-10.05	WELCOME: Mona Gjessing / Christine Huynh		GILL HEALTH MANAGEMENT, PART II Chair: Ingunn Sommerset
10.05-10.15	Gill Health initiative 10 year Anniversary Hamish Rodger	14.10-14.30	Scotland's SAIC funded "Gill Health in Scottish Farmed Salmon" project 2018 – 2023: Highlights, Annette Boerlage, Scotland's Rural College
10.15-11.10	INTERNATIONAL SECTOR UPDATE: Chair: Christine Huynh		
	Australia/New Zealand Chile Norway Scotland	14.30-14.50	NeoGiant, a natural alternative treatment for Amoebic Gill Disease Gaston Caspe, Moredun Research Institute
	Ireland	14.50-15.10	Agile training to help enable standardisation of phytoplankton sampling and gross gill terminology across the Scottish sector Janina
	GILL HEALTH MANAGEMENT, PART I Chair: Ingunn Sommerset		Costa, Sustainable Aquaculture Innovation Centre (SAIC)
11.10-11.50	KEYNOTE: <i>Gill diseases; Field experiences and possible interpretations,</i> Magnus Nyborg, Kvamvet		MODEL SYSTEMS Chair: Annette Boerlage
11.50-12.10	BREAK: COFFEE AND FRUIT	15.10-15.30	The Atlantic salmon gill epithelial cell line ASG-10 as tool for in vitro gill research Anita
12.10-12.30	Using gill mucus to monitor immune gene expression of farmed Atlantic salmon Amanda Vang, Fiskaaling	15.30-15.50	Solhaug, Norwegian Veterinary Institute Optimization of transfection methods and gene editing of the Atlantic salmon gill cell line ASG-10 Maria Dahle, Norwegian
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	15.50-16.10	Veterinary Institute BREAK: COFFEE AND CAKES
12.50-13.10	diversity. Will J. Barr , University of Glasgow Clinical blood biochemistry as a predictive tool for managing gill challenges, Josip Barisic, WellFish Diagnostics		GILL HEALTH AND ARTIFICIAL INTELLIGENCE Chair: Christine Huynh
13.10-13.30	Temporal assessment of gill health during natural outbreak of AGD Sam Martin, University of Aberdeen	16.10-16.30	Harnessing the power of computer vision to provide early warning of jellyfish in fish farms Kylie Pitt, Griffith University, Queensland
13.30-14.10	BREAK: LIGHT LUNCH	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



HEALTH INITIATIVE MEETING 2023

RED CROSS CONFERENCE CENTER, HAUSMANNSGATE 5, OSLO

BREAK, LIGHT LUNCH

12.00-12.40

DAY 2: 26 October 2023

DAY 2: 26 October 2023					
TIME	PROGRAMME	TIME	PROGRAMME		
	HARMFUL PLANKTON BLOOMS AND THEIR IMPACT ON GILL HEALTH Chair: James Wynne		GILL HEALTH AND WELFARE Chair: Brit Tørud		
09.00-09.20	Harmful phytoplankton, cnidarian blooms and fish farms Ana Herrero, Patogen AS	12.40-13.00	Gill health from analog descriptions to digital quantification: towards standards, Karin Anna Pittman, University og Bergen, Quantidoc AS		
09.20-09.40	Mechanisms, monitoring, and mitigation for harmful plankton in salmon aquaculture Connor Dibble, Scoot Science	13.00-13.20	Ontogeny: New technique to assess gill health and animal welfare in salmonids - Clinical cases, Patricio Bustos, ADL Diagnostic Chile		
09.40-10.00	Developing an experimental model for gill disease caused by gelatinous zooplankton Hamish Rodger	13.20-13.40	Leveraging an Integrated Fish Welfare Index to drive operational decisions, Iwen Su, Scoot Science		
10.00-10-20	BREAK: COFFEE AND FRUIT	13.40-14.00	GILL PROJECT CHILE, Daniel Woywood Wijnanat, Aquabench		
	AMOEBA AND GILL PATHOLOGY Chair: Renate Johansen	14.00-14.20	CLOSING AND CONCLUSIONS Christine Huynh		
10.20-10.40	Insights into the viability and infective potential of <i>Neoparamoeba perurans post freshwater exposure</i> , James Wynne, CSIRO				
10.40-11.00	Metagenomic analysis of Nodular Gill Disease in rainbow trout in Switzerland James Wynne, CSIRO		○ FHF		
11.00-11.20	Gill pathology as part of systemic infectious disease in farmed Atlantic salmon (Salmo salar), Marta Alarcón, Pharmaq Analytiq		MQVI [®]		
11.20-11.40	Gill transcriptomics of autumn and spring Atlantic salmon smolts, Ela Krol, University of Aberdeen		AQUA PHARMA		
11.40-12.00	Challenges and Opportunities in Addressing Amoebic Gill Disease (AGD) in Salmon Farming: A Global Perspective, Per Kristian Sætre, Aqua Pharma Group		zoetis		



