

Scotland's Rural College

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

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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 | 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 | The Atlantic salmon gill epithelial cell line ASG-10 as tool for in vitro gill research Anita Solhaug, Norwegian Veterinary Institute |
| 15.30-15.50 | Optimization of transfection methods and gene editing of the Atlantic salmon gill cell line ASG-10 Maria Dahle, 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 |



GILL HEALTH INITIATIVE MEETING 2023

RED CROSS CONFERENCE CENTER, HAUSMANNSGATE 5, OSLO

DAY 2: 26 October 2023

MEETING PROGRAMME

| TIME | PROGRAMME |
|-------------|--|
| | <p>HARMFUL PLANKTON BLOOMS AND THEIR IMPACT ON GILL HEALTH <i>Chair: James Wynne</i></p> |
| 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 |
| | <p>AMOEBA AND GILL PATHOLOGY <i>Chair: Renate Johansen</i></p> |
| 10.20-10.40 | Insights into the viability and infective potential of <i>Neoparamoeba perurans</i> 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 (<i>Salmo salar</i>) , 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 | Challenges and Opportunities in Addressing Amoebic Gill Disease (AGD) in Salmon Farming: A Global Perspective , Per Kristian Sætre, Aqua Pharma Group |
| 12.00-12.40 | BREAK, LIGHT LUNCH |

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

