

Networking Collaborating Centres

Regional Workshop for WOAH National Focal Points for Aquatic Animals IV Cycle Chioggia (Italy) 18th - 20th October 2023



WOAH Collaborating Centres - Aquatic

- 1. Emerging Aquatic Animal Diseases, UK
- Epidemiology and Risk Assessment of Aquatic Animal Diseases (Americas), Canada
- 3. Epidemiology and Risk Assessment of Aquatic Animal Diseases (Europe) in Norway
- 4. Antimicrobial Stewardship in Aquaculture in Chile





Norwegian Veterinary Institute (NVI) has two WOAH CC

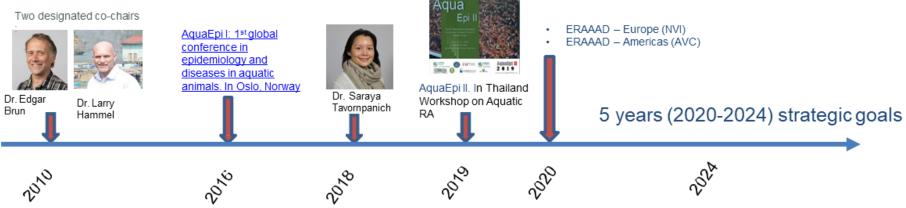
Collaborating Center for Epidemiology and Risk Assessment of Aquatic Animal Diseases (Europe)

Associate for Collaborating Centre for Economics of Animal Health

Reference Centre World Organisation for Animal Health

Collaborating Centre for ERAAAD (Europe)

Established in 2010, as a bi-national collaboration between Norwegian Veterinary Institute and Atlantic Veterinary College





Collaborating Centre for ERAAAD (Europe)

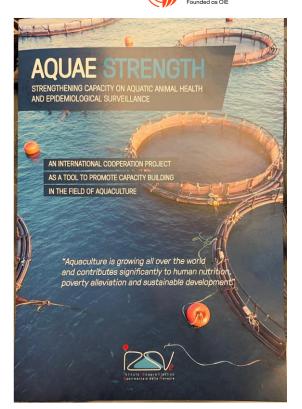
The center aims to operate as a global centre of research, expertise, standardization of techniques and distribution of knowledge in the specialized area of aquatic animal diseases, and help building capacity for the WOAH member countries through research collaborations, trainings, and participation in assessments of performance of veterinary services (PVS)



- External advisor on the use of GIS in aquaculture in the project "Aquae Strength" 2022-2025
- The project aims to assist beneficiary countries on disease surveillance and emerging disease response in aquatic animal health management

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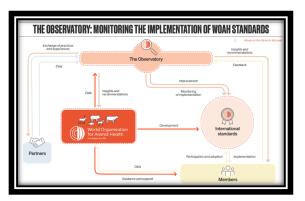






Expert for WOAH Observatory program

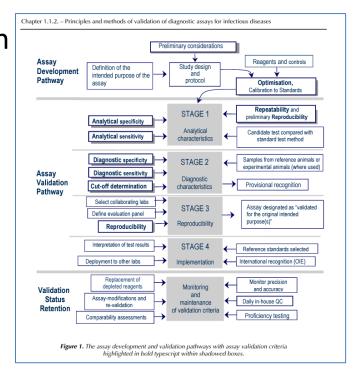
Observatory is a continuous and systematic mechanism designed to analyse the implementation of WOAH international standards by member countries using information regularly collected by various activities, as well as external sources.





 Expert panel for the WOAH Registration of Diagnostic assays for aquatic animal diseases

 Review and comment Dossiers for validation of diagnostic assays



 WOAH Ad hoc group member (e.g. tilapia lake virus, biosecurity chapters): providing expert consultation at the disposal of the WOAH



Part of the technical Committee for AQMENET (Aquaculture Middle East Network).

The short-term action plans focus on building countries capacity on Biosecurity and Surveillance, Emergency preparedness,

Diagnostics and Developing system for AMU

Member countries of AQMENET include the following countries, bordering the Red Sea and the Gulf: Bahrain, Djibouti, Egypt, Iraq, Jordan, Kuwait, Oman, Qatar, Saudi Arabia, Somalia, Sudan, United Arab Emirates, and Yemen.







Network of Aquaculture Centre in Asia-Pacific (NACA)

Co-opted member of NACA Advisory Group
To provide advice to NACA members in the AsiaPacific region on aquatic animal health management.

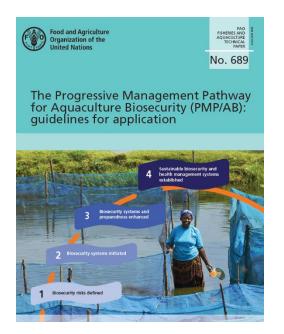
The NACA member countries include Australia, Bangladesh, Cambodia, China, Hong Kong SAR, India, Indonesia, Iran, LaoPDR, Malaysia, Maldives, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam, Myanmar, Governance, Kingdom of Saudi Arabia (joined August, 2023)

Collaboration with FAO



WOAH Collaborating Centre for Epidemiology and Risk Assessment of Aquatic Animals (Europe)





Technical working group for development and implementation of Progressive Management Pathway for Aquaculture Biosecurity (PMP/AB)

Development of step-wise guideline for farm-level (enterprise) biosecurity action plans for seabass/seabream, Shrimp, Seaweed, Salmon, Tilapia productions



COST ACTION: Novel tools for test evaluation and disease prevalence estimation (Harmony)

- Core group
- Bayesian analysis workshop for estimation of DSe and DSp for infection with SAV







The Action members from Norway are organizing a two-day training school, hosted by the Norwagian Veterinary Institute (NVI), Ås, Norway [14 – 15 September 2021].

Saraya Tavornpanich, Jörn Klein, Ingrid Toftaker, Katharine Dean, Haakon Bakka are organizing a two-day training school.



Collaboration with World Fish

Increased Sustainability in the Aquaculture Sector for countries in Sub Sahara Africa through Improved Aquatic Animal Health Management

- 13 MSc students Practical training (physical in Abbassa and webinars) of participants from different countries and different background
- fish health management, biosecurity, epidemiology, vaccination, outbreak investigation
- Epidemiological field study performed
- Network building between participants



Training program on aquatic animal health and outbreak investigation in Kenya (March 15 – 17, 2023), and Ghana (April 19 - 21, 2023)

Participants: veterinarians, fish health service from Fisheries Commission, MSc and PhD students and staff of University of Ghana







Fish for Development program (Ghana, Colombia)

Provide practical and theoretical knowledge on aquatic animal health management

- ☐ Tailored Courses in aquatic epidemiology, risk analysis and outbreak investigations.
- ☐ Courses to small-scale farmers, extension staffs, researchers, policy people and regulatory authorities on best practices in fish health management
- ☐ Biosecurity plan
- ☐ Guideline for Design of surveillance programs
- ☐ Guideline for Data collection/registration system
- ☐ Fish disease diagnostics

Support in data analysis, study design and supervision







A baseline study to map fish disease occurrence in tilapia farms on Lake Volta.

The study was designed to get a clearer picture of the disease situation and to serve as guide to improving Fish Health Management in Ghana





A survey of IPNV infection in farmed trout production in Lake Cocha, Colombia

Biosecurity plan, evaluation for small scale farms



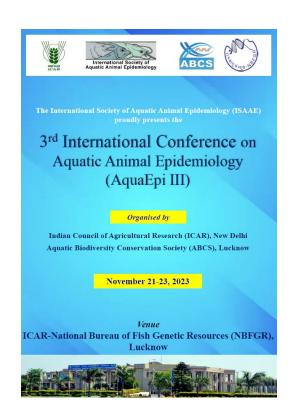




Scientific conference

CC has been involved in organizing and scientifically supporting the International Conference on Aquatic Epidemiology (AquaEpi)

- AquaEpi I (Oslo, Norway in 2016),
- AquaEpi II (Hua-Hin Thailand in 2019,
- AquaEpi III (Lucknow, India in 2023)





International Aquaculture Team

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Thank you for your attention!