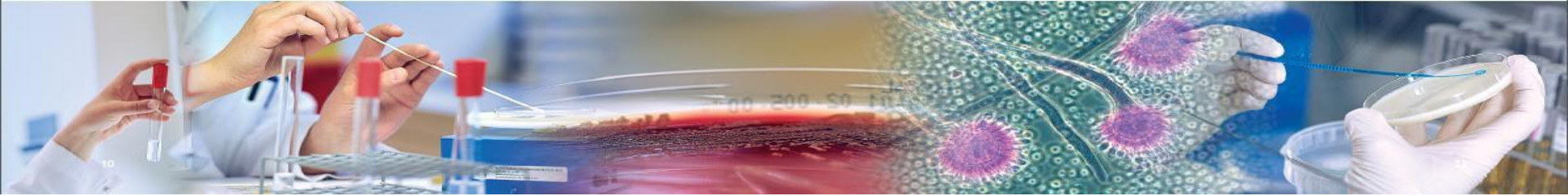




Veterinærinstituttet
Norwegian Veterinary Institute

Norwegian Veterinary Institute

NVI's Work in Africa – and International Collaboration



Our mission...

NVI is the **National Reference Laboratory** for more than 30 diseases of terrestrial and aquatic animals.

NVI is the **WOAH Reference Laboratory** for:

- *Infection with infectious salmon anaemia virus*
- *Infection with Gyrodactylus salaris*
- *Infection with salmonid alphavirus*
- *(Chronic Wasting Disease)*



**World Organisation
for Animal Health**
Founded as OIE

and the **WOAH Collaborating Center** for

- *Epidemiology and Risk Assessment of Aquatic Animal Diseases, Europe (ERAAAD)*
- *The Economics of Animal Health*

International development collaboration

- *Projects in*

- Africa (AHA-project, Ghana, Madagascar)
- South America (Colombia)
- Asia (NACA)

- *In collaboration with/ funded by*

- Norwegian Agency for development cooperation, Norad
- FAO
- WOAHA
- WorldFish
- The Royal Norwegian Society for Development (Norges Vel)

- *Twinning*

- Brazil



Food and Agriculture Organization
of the United Nations

NORGESVEL



NETWORK OF
AQUACULTURE CENTRES
IN ASIA-PACIFIC



Collaborating Centre for ERAAAD (Europe)

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

Two designated co-chairs



Dr. Edgar
Brun



Dr. Larry
Hammel

[AquaEpi I: 1st global conference in epidemiology and diseases in aquatic animals. In Oslo, Norway](#)



Dr. Saraya
Tavornpanich



AquaEpi II. In Thailand
Workshop on Aquatic
RA

- ERAAAD – Europe (NVI)
- ERAAAD – Americas (AVC)

5 years (2020-2024) strategic goals

2010

2016

2018

2019

2020

2024

Collaborating Centre for ERAAAD (Europe)

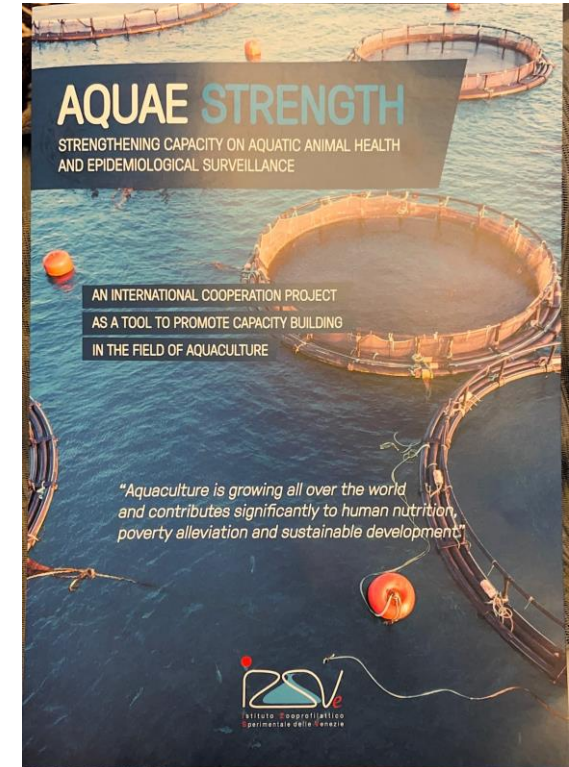
-aims to operate as a **global centre of research, expertise, standardization of techniques and distribution of knowledge** in the specialized area of aquatic animal diseases, and help **building capacity** for the WOA member countries through **research collaborations, trainings, and participation in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

Collaborating activities – Ad hoc groups WOA

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

Collaborating activities – Aquae Strength

- 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

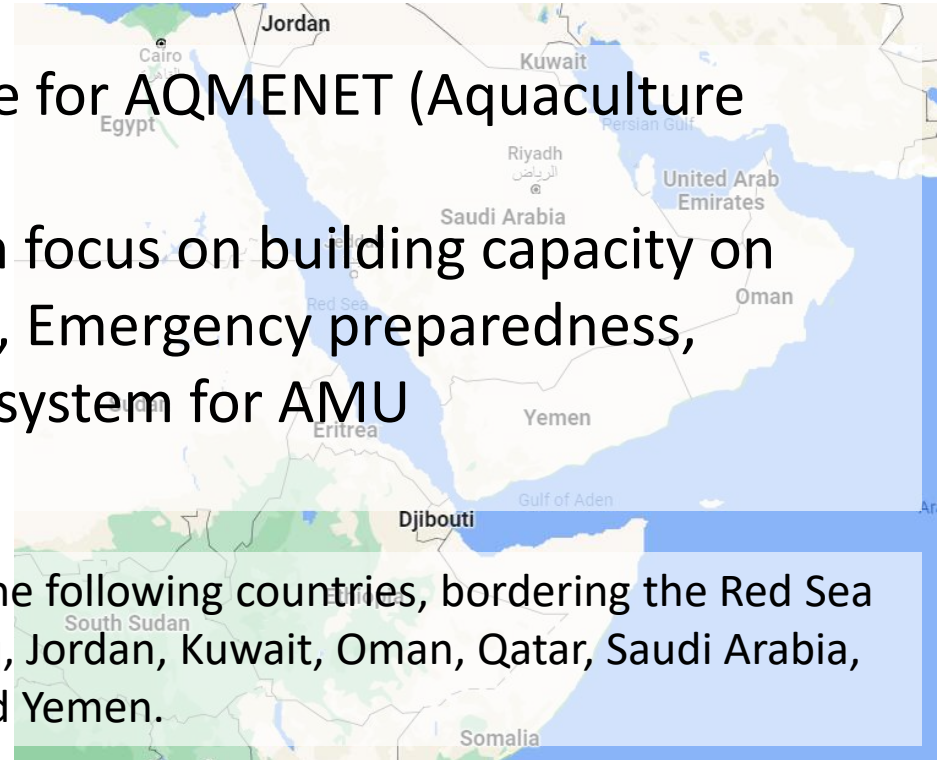


Collaborating activities - AQMENET

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

- Short-term action plans with focus on building 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.



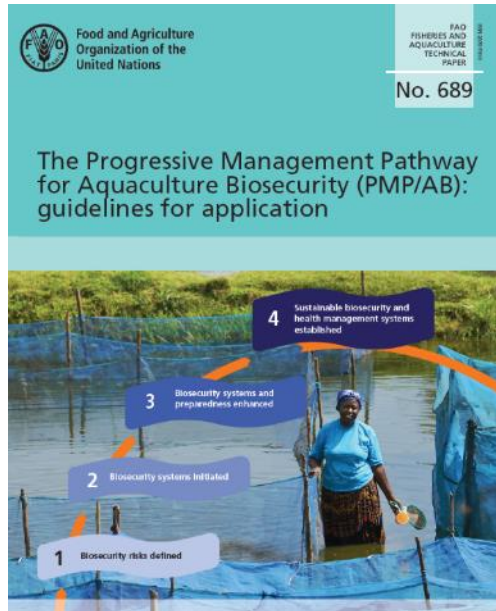
Network of Aquaculture Centre in Asia-Pacific (NACA)

Co-opted member of NACA Advisory Group
To provide advice to NACA members in the Asia-Pacific
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



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

Collaboration with World Fish

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



- 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, Ghana.

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

Fish for Development baseline study to map the disease occurrence in tilapia farms on Lake Volta



Fish for development Colombia

- Training and collaboration in improving diagnostic capacity in aquatic animal health - tilapia and rainbow trout
- Biosecurity in aquaculture
- Estimation of carrying capacity for aquaculture in La Cocha lake



NVI- Brazil – twinning

- Twinning between Norwegian Veterinary Institute and AQUACEN (Animal Health Laboratory, Brazil)
- Initiated as part of a political Norway-Brazil collaboration
- Periode 2014 - 2017
- Project plan approved by WOAHA
- Combined lab and epidemiology
- Self-funded
- AQUACEN did not apply for WOAHA Ref Center-approval



Veterinærinstituttet
Norwegian Veterinary Institute

International Aquaculture Team

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