

WOAH Collaborating Centre on Epidemiology and Risk Assessment for Aquatic Animal Diseases - Europe

Workshop on enhancing aquatic animal health and biosecurity

26-29 October 2025, Jeddah, Saudi Arabia

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

Reference Centre



World Organisation
for Animal Health
Founded as OIE

Saraya Tavoranpanich, Head of the Collaborating Centre



World
Organisation
for Animal
Health

Organisation
mondiale
de la santé
animale

Organización
Mundial
de Sanidad
Animal



وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture

Kingdom of Saudi Arabia المملكة العربية السعودية



WOAH Aquatic Collaborating Centre Network



CENTRE FOR AQUATIC HEALTH SCIENCE (CAHS) Dirección Address Atlantic Veterinary College (AVC) University of Prince Edward Island Department of Health Management 550 University Avenue Charlottetown, PE C1A 4P3 CANADA Contacto Contact lhammell@upei.ca	CENTRAL LABORATORY FOR AQUACULTURE RESEARCH (CLAR) Dirección Address Abbassa, Abou Hammad, Sharkia, EGYPT Contacto Contact +201001930900 refaatelgamal139@yahoo.com
CENTRE FOR ENVIRONMENT, FISHERIES AND AQUACULTURE SCIENCES (CEFAS) Dirección Address The Nothe, Barrack Road, Dorset DT4 8UB, Weymouth, UNITED KINGDOM Contacto Contact +44-1305 20.66.00 kelly.bateman@cefass.gov.uk richard.paley@cefass.co.uk	REFERENCE MATERIALS OF MOLECULAR DIAGNOSTIC TECHNIQUES IN AQUATIC AND TERRESTRIAL ANIMAL DISEASES: LABORATORY EXPERTISE Dirección Address 216, Gijanghaean-ro, Gijang-eup, Busan, 46083, KOREA (REP. OF) Contacto Contact +82517202483 hjkim1882@korea.kr
EPIDEMIOLOGY AND RISK ASSESSMENT OF AQUATIC ANIMAL DISEASES (EUROPE) Dirección Address Pb 64, N-1431 Ås, NORWAY Contacto Contact 4723216000 saraya.tavornpanich@vetinst.no postmottak@vetinst.no	ANTIMICROBIAL STEWARDSHIP IN AQUACULTURE (CASA): VETERINARY PRODUCTS Dirección Address University of Chile, Faculty of Veterinary and Animal Sciences, Region Metropolitana, CHILE Contacto Contact +56229785580 agallardol@gmail.com jcornejo@uchile.cl

To providing scientific knowledge and support to both the Organization and its Member Countries, promoting international cooperation in the field of aquatic animal health and welfare.

About the ERAAAD Collaborating Centre

- Established in 2010, as a bi-national collaboration between the Norwegian Veterinary Institute (NVI) and the Atlantic Veterinary College (AVC) of the University of Prince Edward Island
- It operates 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)



Dr. Larry Hammel Dr. Edgar Brun

Dr. Saraya Tavoranpanich

2010

2016

2018

2019

2020

2023

2026

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

AquaEpi II. In Thailand



AquaEpi III. In India



AquaEpi IV in 2026 in Colombia

Collaborating Centre's 5-year strategy plan (2021-2025)

Key Objectives:

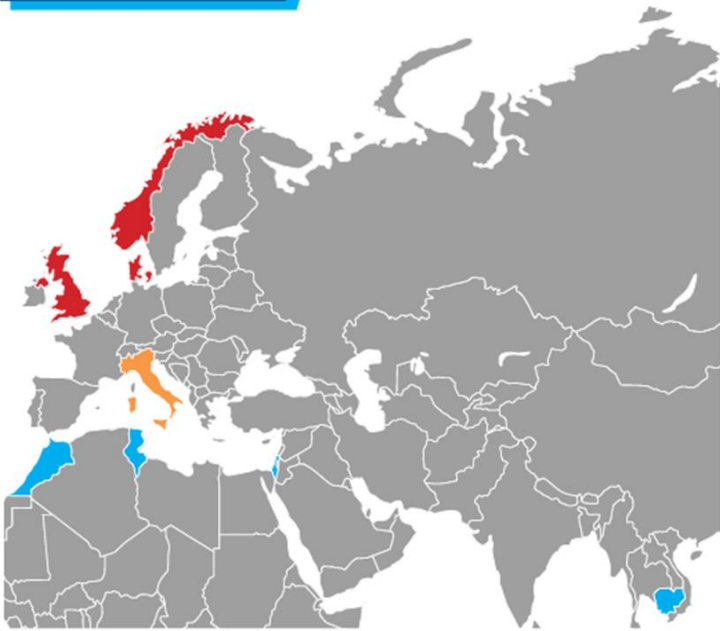
Reduce disease spread and sustain global aquaculture production

- Building epidemiological capacity at national and farm level
- Improve aquatic animal epidemiology competence → raise awareness of basic concepts on disease dynamics, biosecurity, health management and diagnostics
- Advance in developing digital technologies and tools for animal health monitoring, surveillance and disease management

Aquae Strength

To strengthen disease surveillance and emerging disease response in aquatic animal health management (2023-2025)

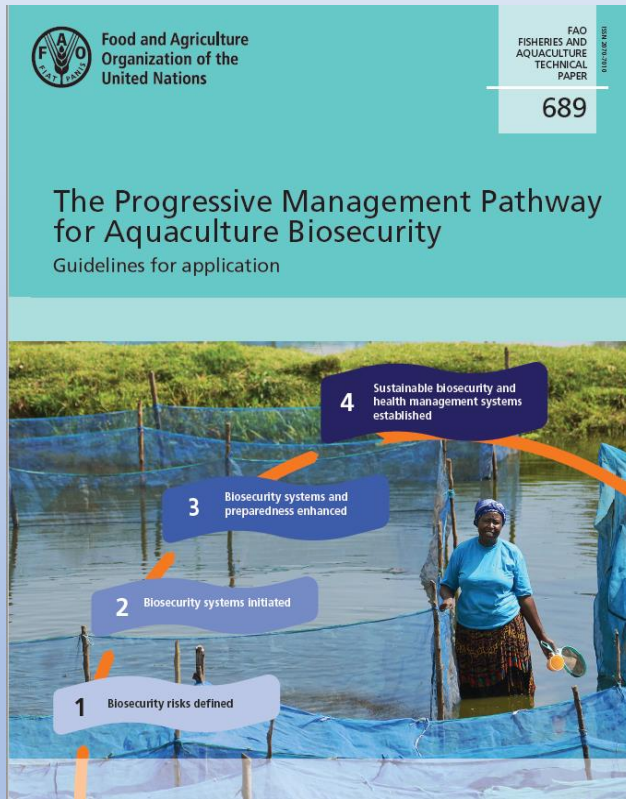
COUNTRIES INVOLVED



- Il.ZZ.SS. - Italy
- Advisors - Denmark, Norway, United Kingdom
- Beneficiaries - Cambodia, Israel, Morocco, Tunisia

- The project is led by the Italian Ministry of health and supported by the WOA. The project is led by the Istituto Zooprofilattico Sperimentale delle Venezie (Italy), and involved 4 beneficiary institutes
- WP1 - Critical shortfall in GIS-based surveillance
 - lack of technical knowledge and expertise
 - deficient infrastructure
 - limited access to spatial data
 - under use of GIS in existing surveillance system, in planning and response activities

FAO- Guideline for implementation of PMP-AB



- Technical working group for development and implementation of **Progressive Management Pathway for Aquaculture Biosecurity (PMP/AB)**.
 - Develop toolkits (on-farm biosecurity, governance, cost-benefits, etc), Workshops, and Publications
- Trainings in **Aquaculture-Value Chain Risk Analysis**
 - Asia- Africa (Uganda, Tanzania, Kenya, Rwanda, Burundi) – March 2024
- Upcoming workshops November 3-8, 2025
 - Early Warning System (EWS) at Farm Level
 - Aquatic Organism Health (AOH) Management and Aquaculture Biosecurity



FAO- General Fisheries Commission for the Mediterranean (GFCM)

Technical Advisory Group (TAG) on Aquatic Animal Health and Biosecurity

- Fact sheets for emerging diseases e.g. Lactococcosis
- Workshop (KSA 5-6 May 2025)
- Develop practical tools: Biosecurity Evaluation Tool

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

Reference Centre



World Organisation
for Animal Health
Founded as OIE



General Fisheries
Commission for
the Mediterranean



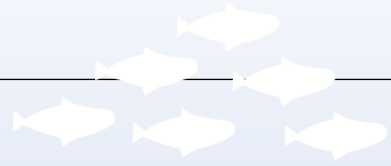
Network of Aquaculture Centres in Asia-Pacific

Co-opted Advisory Group member **of Network of Aquaculture Centre in Asia-Pacific (NACA)**.

- Upcoming meeting - 24th Meeting of the Asia Regional Advisory Group on Aquatic Animal Health (AGM 24), 24-25 November 2025

Mission

- (a) evaluate disease trends and emerging threats
- (b) identify developments with global aquatic animal disease issues and standards
- (c) review and evaluate the Quarterly Aquatic Animal Disease reporting programme and assess the list of diseases of regional concern
- (d) provide guidance and leadership on regional strategies to improving management
- (e) monitor and evaluate progress on Technical Guidelines implementation
- (f) facilitate coordination and communication of progress on regional programmes
- (g) advise in identification and designation of regional resources, as Experts (RRE), Laboratories (RRL)
- (h) identify issues of relevance that require depth review and propose actions needed.



Fish for Development Ghana 2019-2025

Outcome 1 **Improved regulatory framework** to protect the aquatic environment and for sustainable aquaculture

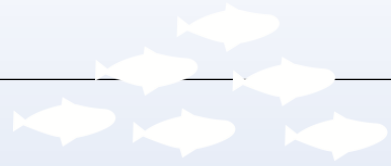
Outcome 2 **Fish health management** for establishing knowledge and improving the health status of farmed fish in Ghana

Outcome 3 **Monitoring of the aquaculture industry** through improved data collection and routine inspections



Veterinærinstituttet





Fish for Development Colombia 2021-2027

Outcome 1	Improved capacity to implement science-based management advice for selected fisheries
Outcome 2	Improved cooperation with neighboring countries and regional and international fisheries bodies
Outcome 3	Improved knowledge base for marine aquaculture
Outcome 4	Improved capacity for the Colombian government to control the environmental footprint of aquaculture
Outcome 5	Capacity for surveillance, control and prevention of disease in aquatic animals improved



Veterinærinstituttet



Agricultura





Increased Sustainability in Aquaculture in Sub Saharan Countries Africa (2010-2024)

Goal: Increase sustainability and resilience in the aquaculture sector
Research, Education and Networking

- 13 Master research studentships
- 13 Conference Papers published, WAS Conference- Zambia, 2023
- 7 MSc in Kenya: 4 graduated ; 6 MSc in Ghana: 4 graduated
- 8 Published papers from MSc work & more are still in the pipeline



Research

Baseline survey and Gap analysis
(Existing capacity for research and education within the area of aquatic animal)

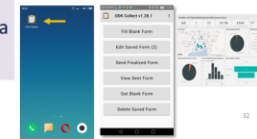
The publication underscores the urgent need to implement inland transition strategies to protect Lake Volta

Two broad epidemiological studies in Kenya and Ghana using the Epi-tool, Data processing and analysis



Bridging knowledge gaps in fish health management through education, research, and biosecurity

Rethinking Freshwater Cage Aquaculture: A Case in Ghana



Veterinærinstituttet



WorldFish

Training and capacity building activities

Education

6 physical training cycles at FAIH-Egypt for over 100 Participants



Two physical training courses on Basic epidemiology & Outbreak investigation in Aquatic Animals

Aquatic Animal Health resources developed for research and education

Education

Quick fish sampling guide for disease diagnostics



Online courses using Learn.ink platform



UNIVERSITY OF GHANA



Norway



Fish for Development Kenya 2026 -

Advancing Kenyan Aquaculture



Veterinærinstituttet

Kenya Directorate of
Veterinary Services

Kenya Marine &
Fisheries Research
Institute

Collaboration with EU networks: COST Actions

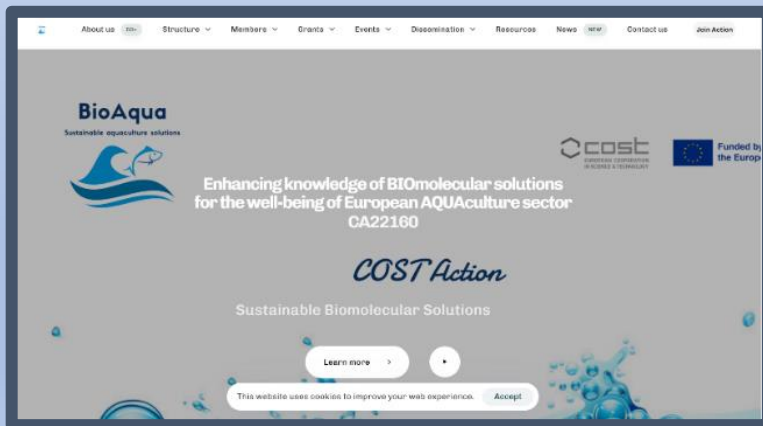
COST is an EU-funded programme which provides researchers and innovators with funding to set up interconnected, interdisciplinary and collaborative research networks in Europe and beyond.



<https://bioaqua-cost.eu/>

<https://better-biosecurity.eu/>

<https://harmony-net.eu/>





Norwegian Veterinary Institute International Cooperation Development Group



No one knows everything;
everyone knows something;
together we know more

- Mr. Simon Rodriguez

Thank you!

12, rue de Prony, 75017 Paris, France
T. +33 (0)1 44 15 19 49
F. +33 (0)1 42 67 09 87

woah@woah.org
www.woah.org

[Facebook](#)
[Twitter](#)
[Instagram](#)
[LinkedIn](#)
[YouTube](#)
[Flickr](#)



World
Organisation
for Animal
Health

Organisation
mondiale
de la santé
animale

Organización
Mundial
de Sanidad
Animal



وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture

Kingdom of Saudi Arabia المملكة العربية السعودية

