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World Organisation for Animal Health Founded as OIE

Challenges and opportunity in the Fish networking: WOAH CCs activities





HEALTHY ANIMALS, ENVIRONMENT & PEOPLE

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Collaborating Centres

WOAH maintains a network of Collaborating Centres for the purposes of providing scientific expertise and support to the WOAH and its Members, and for promoting international collaboration on animal health and welfare. Collaborating Centres are designated for a specific specialty within a focus area relating to the management of general questions on animal health issues. In its designated specialty, they must provide their expertise internationally (see WOAH Terms of Reference and Internal Rules for Collaborating Centres).

- Emerging Aquatic Animal Diseases
- Epidemiology and Risk Assessment of Aquatic Animal Diseases: Americas
- Epidemiology and Risk Assessment of Aquatic Animal Diseases: Europe
- Antimicrobial Stewardship in Aquaculture



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Agenda

- History of CC
- CC's collaboration activities
- Opportunities and Challenges



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WOAH Collaborating Centre for ERAAAD (Europe)

- 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 WOAH member countries through research collaborations, trainings, and participation in assessments of performance of veterinary services (PVS)





CC's Five-year strategy plan

Impacts and 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

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









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Collaboration with other WOAH reference centres

- Serves as an **external advisor** for the project "Aquae Strength" aiming to assist beneficiary countries on disease surveillance and emerging disease response in aquatic animal health management
- The project is financed by the Italian Ministry of health and supported by the WOAH. The project is led by the Istituto Zooprofilattico Sperimentale delle Venezie (Italy), and involved 4 beneficiary institutes from Cambodia, Tunisia, Israel, Morocco



Open Access Review

A Scoping Review on GIS Technologies Applied to Farmed Fish Health Management

by Tiziano Dorotea ¹ ⊠ [©], Giorgia Riuzzi ², [∞] [©], Eleonora Franzago ¹ [∞] [©], Paulette Posen ³ [∞] [©], Saraya Tavornpanich ⁴ [∞] [©], Alessio Di Lorenzo ⁵ [∞] [®], Laura Ferroni ⁶ [∞] [©], Walter Martelli ⁷ [∞] [©], Matteo Mazzucato ¹ [∞] [©], Grazia Soccio ¹ [∞] [©], Severino Segato ² [∞] [©] and Nicola Ferrè ¹ [∞] [©],





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Collaboration with other WOAH reference centres

- Member of Technical Committee for AQMENET (Aquaculture Middle East Network). Member countries of AQMENET include the 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.
- Short-term action plans focus on building countries capacity on Biosecurity and Surveillance, Emergency preparedness, Diagnostics and Developing system for AMU



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Collaboration with inter-governmental organizations

- Technical working group for development and implementation of Progressive Management Pathway for Aquaculture Biosecurity (PMP/AB). Leading to guidelines (e.g. Step-wise guideline for farmlevel biosecurity action plans), e-learning modules, workshops, publications, etc.
- Fish-Vet-Dialogue
 1st was in June 2021, Virtual
 http://infofish.org/Fish-VetDialogue/
 2nd will be in 18-19 June, 2024 in Rome,
 Italy









The Progressive Management Pathway for Aquaculture Biosecurity (PMP/AB): guidelines for application





Trainings and field studies conducted in various countries

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3-day workshop on AVC RA for 5 African countries near Lake volta (March 2024)

EHP diagnostic methods, prevalence and risk factor study in shrimp farms in Indonesia









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Collaboration with inter-governmental organizations

Technical Advisory Group (TAG) on Aquatic Animal Health and Biosecurity General Fisheries Commission for the Mediterranean (GFCM) www.fao.org/gfcm

- Launch a Survey containing questions about Production statistics, Disease surveillance, Data collection and reporting, Disease situation, Biosecurity, Treatments, Future priorities and Needs
- Aquaculture focal points of member countries





The GFCM in brief

Area of application

GFCM 2030 Strategy

Structure

Partners

The General Fisheries Commission for the Mediterranean (GFCM) is a regional fisheries management organization (RFNO) established in 1949 under the provisions of Article XIV of the Constitution of the Fiod and Agriculture Organization of the United Mations (FAO). In 1952, the Agreement for the establishment of the General Fisheries Commission for the Mediterranean (GFCM Agreement) officially came into force.

SUSTAINABLE

Objectives

Federate efforts of countries towards:

- the conservation and sustainable use of living marine resources at all levels (biological, social, economic and environmental)
- the sustainable development of aquaculture



Membership



Bosnia and Herzegovina (2016) · Georgia (2015) · Jordan (2018) · Republic of Moldova (2017) · Saudi Arabia (2021) · Ukraine (2015)





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Collaboration with inter-governmental organizations

- Co-opted member Network of Aquaculture Centre in Asia-Pacific (NACA) Advisory Group since 2019. The group meets yearly to provide advice to NACA members (18 countries) in the Asia-Pacific region on aquatic animal health management.
- (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.







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Collaboration in Fish for Development program

Fish for Development Program in Colombia:

- A survey of IPNV infection in farmed trout production in Lake Chocha, Colombia
- Development and Validation of Biosecurity evaluation tool
- Stakeholder perspective assessment
- Trainings and workshops











Collaboration with WordFish



Training on the principles of epidemiology in aquaculture, outbreak investigation, supported by practical lessons

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



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



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https://better-biosecurity.eu/

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Collaboration with EU networks: Cost Action



4 September, 2021 - 15 September, 2021

Share: 0 9 0 0 0



The Action members from Norway are organizing a two-day training school, hosted by the Norwegian 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



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Opportunities

Knowledge Exchange: Sharing ideas and expertise with different groups

- Enhance competence and capacity in fish health management
- Improve systems for fish health management at industry and governmental level.
- Improve competence and procedures in aquatic animal health diagnostics.
- Improve NVI experience, knowledge and learning base on health challenges in tropical aquaculture (focus on fresh water finfish tilapia etc.).

Networking and Outreach: Being part of collaborative networks to facilitate new ideas and opportunities

Impact and Influence: By teaming up with others, we can help implement changes to improve aquatic animal health, being a louder voice when it comes to advocating for policies



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Challenges

Resource Allocation: limited time and resources

Communication and Coordination: dealing with collaborators from different time zones and languages.

Political and Socioeconomic Factors: the biggest hurdles impact the implementation and success of collaborative projects.

Policy Harmonization: Aligning regulatory frameworks and policies across different regions and organizations

Data Sharing and Standardization: Ensuring consistent and reliable data sharing among diverse regional networks and organizations

Capacity Building: making sure everyone has the right skills and tools **Technological Glitches:**



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International Aquaculture Team

