

# WOAH Collaborative Centre Reports Activities 2023

## Activities in 2023

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### Centre Information

<b>Title of WOA Collaborating Centre</b>	Antimicrobial Stewardship in Aquaculture (CASA)
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<b>Name Director of Institute (Responsible Official):</b>	José Manuel Yáñez
<b>Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):</b>	Javiera Cornejo Kelly, CASA Director
<b>Name of the writer:</b>	Alicia Gallardo Lagno

### TOR1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOA

Category	Title of activity	Scope
Veterinary medicinal products (true)	Antimicrobial stewardship in aquatics animals	Aquaculture: prudent and responsible use on antimicrobial medicinal products; data management on AMU; capacity building and training activities. Biosecurity assessment.

### TOR3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable area
Diploma in Good Practices in the Use of Antimicrobials in Aquaculture. 5th version.	Postgraduate training in antimicrobial use (AMU) for veterinarians in aquaculture.	Training and education Veterinary products

3. In exercising your activities, have you identified any regulatory research needs\* relevant for WOA?

Yes

**Research need : 1**

**Please type the Research need:** Antimicrobial use data management in aquaculture

**Relevance for WOA**H Capacity Building, Standard Setting,

**Relevance for the Codes or Manual** Code,

**Field** Therapeutics,

**Animal Category** Aquatic,

**Disease:**

**Kind of disease (Zoonosis, Transboundary diseases)**

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

*Answer:* Aquatic Code, Ch. 6.3 Monitoring of the quantities and usage patterns of antimicrobial agents used in aquatic animals

**Notes:**

*Answer:* Consider innovation like AI to manage AMU and AMR data.

**Research need : 2**

**Please type the Research need:** Alternatives to antimicrobials products

**Relevance for WOA**H Disease Control,

**Relevance for the Codes or Manual** Code,

**Field** Therapeutics,

**Animal Category** Aquatic,

**Disease:**

**Kind of disease (Zoonosis, Transboundary diseases)**

**If any, please specify relevance for Codes or Manual, chapter and title**

(e.g. Terrestrial Manual Chapter 2.3.5 - Minimum requirements for aseptic production in vaccine manufacture)

*Answer:* Aquatic Code, Ch. 6.2, Principles for responsible and prudent use of antimicrobial agents in aquatic animals

**Notes:**

*Answer:* Consider harmonization with Ch. 6.10, Terrestrial Code.

4. Did your Collaborating Centre maintain a network with other WOA H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
WOAH Aquatic CC networking	on line	Africa Americas Asia and Pasific Europe MiddleEast	coordinate activities within the framework of the mandate for aquatic cc's
AQMENET	on line	MiddleEast	coordinate training activities

**TOR4 AND 5: NETWORKING AND COLLABORATION**

5. Did your Collaborating Centre maintain a network with other WOAAH Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOAAH CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
NVI	Norway	Europe	To share information on key aquatic biosecurity measures to mitigate AMR and evaluate action plan together.

## TOR6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAAH?

Yes

NAME OF EXPERT	KIND OF CONSULTANCY	SUBJECT
Javiera Cornejo	CASA representative in WOAAH network of reference centers in aquaculture	Coordination of activities and action strategies between the WOAAH CC.
Marcela Lara	CASA representative in WOAAH WOAAH ELECTRONIC EXPERT GROUP MEETING. MONITORING AMU IN AQUACULTURE AT FIELD LEVEL	Preparation of a paper with the current situation.
Alicia Gallardo	CASA representative in WOAAH electronic aquaculture network on AMR	Share information on activities related to AMU and AMR in aquatics

## TOR7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

Yes

*Consultancy in public-private partnership (PPP agreement) with the Salmon Council to strengthen the use of antimicrobials in Chilean salmon farming.*

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAAH, to personnel from WOAAH Members?

Yes

a) Technical visit : 0

b) Seminars : 5

c) Hands-on training courses: 1

d) Internships (>1 month) : 0

TYPE OF TECHNICAL TRAINING PROVIDED (A, B, C OR D)	CONTENT	COUNTRY OF ORIGIN OF THE EXPERT(S) PROVIDED WITH TRAINING	NO. PARTICIPANTS FROM THE CORRESPONDING COUNTRY
B	Aquatic animal webinar: Alternatives to antimicrobial use (ATA) and vaccination. June 14, 2023	Chile y Ecuador	60
B	Aquatic animal webinar: "AMR surveillance programs. June 28, 2023	Brasil, Perú y Chile	60
	Aquatic Animal Webinar: AMR Surveillance	Brasil, Chile y Ecuador	60

B	Programs June 28, 2023		
B	Aquatic animal webinar: Early diagnostics of bacterial diseases. July 12, 2023	Chile	60
B	Aquatic animal webinar: Case study Public-private partnerships to mitigate AMR. July 26, 2023	Arabia Saudita, Chile Y Madagascar	60
C	Methods for diagnosing antimicrobial residues in muscle matrix	Chile	10

## TOR8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H?

Yes

NATIONAL/INTERNATIONAL	TITLE OF EVENT	CO-ORGANISER	DATE (MM/YY)	LOCATION	NO. PARTICIPANTS
National	Seminario "Perspectivas Multidisciplinarias sobre RAM y Antibióticos en la Acuicultura: Una Mirada One Health".	INTESAL, SalmonChile	2023-10-30	Puerto Varas, Chile	100

## TOR9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOA?H that may be useful to Members of WOA?H

a) Articles published in peer-reviewed journals:

1

*Short communication: Oxytetracycline dose reduction in salmon farming: Assessing a micro encapsulated novel formulation in an in vivo model. Aquaculture, Volume 593, 15 December 2024*

<https://www.sciencedirect.com/science/article/abs/pii/S004484862400721X>

b) International conferences:

1

*Annual Conference for Antimicrobial Assessment on Global Aquaculture Production Project (AGAP) "Antibiotic use metrics in aquaculture". Participación de CASA en el panel "Synergizing Sustainably: Strengthening Public-Private Cooperation for Aquaculture Development". Organizado por el Monterey Bay Aquarium Seafood Watch. Diciembre 2023. Puerto Rico.*

c) National conferences:

3

*Congreso Ciencias del Mar XLII. Presentación de resultados de investigación "Mejora de la biodisponibilidad de oxitetraciclina en trucha arcoíris (Oncorhynchus mykiss): Optimizando una herramienta terapéutica mediante tecnologías de encapsulación". 23-25 de mayo. Puerto Montt, Los Lagos.*

*Aquaculture Innovation Conference (Innaqua). Presentaciones: "Buenas Prácticas para reducir el uso de fármacos en la acuicultura" y "El futuro de las tecnologías genómicas e ingeniería genética". 26-28 septiembre. Puerto Varas, Los Lagos, Chile.*

*Congreso Estudiantes de Postgrado de la Universidad de Chile. Presentación: "Buenas prácticas para la reducción del uso de fármacos acuicultura en Chile: Avanzando hacia una producción de alimentos sostenible". 29 de noviembre. Santiago, Chile*

d) Other (Provide website address or link to appropriate information):

1

*Active participation in the region (supporting WOA?H) in the quadripartite project, funded by the EU, to address AMR under a One Health approach.*

<https://rr-americas.woah.org/es/proyectos/ue-ram/>

11. What have you done in the past year to advance your area of focus, e.g. updated technology?

*CASA Center was committed to the advancement of the main area of interest through a series of significant actions: active participation in seminars and congresses, related with AMR and AMU and activities aimed at promoting AMU, considering Aquatic Code recommendations for veterinarians specialized in this area. Finally, CASA is involved, with Sernapesca, in the development of a ICARS (International Centre for antimicrobial resistance solutions) project focused on the data management and communication.*

12. Additional comments regarding your report:

*For communication purposes we create following page: <https://linktr.ee/casa.omsa>*