



Antibiotic in Aquaculture Congress

A multidisciplinary Approach for Sustainability

20-22 November, Puerto Varas, Chile

GENERAL PROGRAM

Wednesday, 20th of November 2024	
08.00 – 18.00	Accreditation
09.00 – 09.45	Welcoming Ceremony Jennifer Dianto Kemmerly (Monterey Bay Aquarium) Tomás Garate (Puerto Varas Major) Chilean National Fisheries and Aquaculture Service (SERNAPESCA) Arturo Clément (SalmonChile)
09.45 – 10.00	Introduction: Current situation and challenges of antibiotic use in global aquaculture Rolando Ibarra, Organizing Committee - Monterey Bay Aquarium
10.00 – 10.30	Plenary lecture: One health, one aquaculture. OMSA's tools to prevent AMR Alicia Gallardo Lagno, President of the World Organization of Animal Health (WOAH) Aquatic Animal Health Standards Commission
10.30 – 11.00	Coffee Break
Session: Policy and Regulations	
11.00 – 11.15	Surveillance of antimicrobial residues in aquaculture products: where do we stand today? Javiera Cornejo – FARMAVET – CASA OMSA, Chile
11.15 – 11.30	Controls on Antibiotic Use in Shrimp Aquaculture - Are they Sufficient and Effective Cormac O' Sullivan- Monterey Bay Aquarium Global Program, U.S.A
11.30 – 11.45	Disease spillovers in Chile's salmon aquaculture industry Thomas M. Anderson- University of Florida, U.S.A
11.45 – 12.00	Regulatory Risk Assessment of Veterinary Medicinal Products Used in Aquaculture in Europe Andreu Rico - Cavanilles Institute, University of Valencia, Spain
12.00 – 12.15	Yelcho, a commitment of the Salmon Industry in new way of engaging with the animal health sector. Daniel Woywood – Aquabench, Chile
12.15 – 12.45	Surveillance, alert, and response system (SVAR) to reduce the use of antimicrobials in Chilean salmon farming Osvaldo Sandoval- National Fisheries and Aquaculture Service, SERNAPESCA, Chile
12.45 – 14.30	Lunch (Including)

Organizers:



Wednesday, 20th of November 2024, CONT.

14.30 –
15.00 **Plenary lecture:**
Antibiotic resistance in aquaculture: a reality check from an environmental perspective
Gabriel G. Perron, Professor and Researcher of Bard College, Nueva York, U.S.A.

Session: Antimicrobial Resistance

15.00 –
15.15 The menace of antimicrobial resistance in Chilean salmon farming. The resistome under a One Health perspective
Claudio Miranda – Universidad Católica del Norte, Chile

15.15 –
15.30 Wild-Type and Non-Wild-Type vs Resistance and Susceptible—That Is the Question
Ruben Avendaño-Herrera INCAR – Universidad Andrés Bello, Chile

15.30 –
15.45 A molecular approach to measure the impact of antibiotics and antibiotic resistance pollution on (fish) microbiomes
Gabriel G. Perron - Bard College, Nueva York, U.S.A

15.45 –
16.30 **Coffee Break**

Session: Prevention Strategies

16.30 –
16.45 A stochastic model for assessing antimicrobial effectiveness and vaccination strategies in Atlantic salmon cages infected with *Piscirickettsia salmonis*
Fernando Mardones – Pontificia Universidad Católica de Chile, Chile

16.45 –
17.00 Piscirickettsiosis in vivo infection model, from basics to outcome prediction
Marcos Mancilla – ADL Diagnostic, Chile

17.00 –
17.15 Breeding program for SRS resistance: A step towards a more sustainable Salmon farming industry.
Paulina López – AQUAGEN, Chile

17.15 –
17.30 Towards cost-effective reductions of antibiotic use in salmon aquaculture
Thomas M. Anderson - University of Florida, U.S.A

17.30 –
17.45 Antibiotic use in salmon aquaculture can be successfully decreased by employing proper strategies and practices.
Pablo Ibieta – PINCOY Project

17.45 –
18.00 Benefits of oxygen supply in fish *Salmo salar* and its contribution to the efficacy of antibiotics treatments
Pedro Palacios - OXZO S.A., Chile

18.00 –
20.00 **Welcoming Cocktail “Seafood testing”**



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Thursday, 21st of November 2024

Plenary lecture:

- 09.00 – Turning Sustainability into Market Advantage
09.30 Maisie Ganzler, Lecturer, writer, and consultant for Bon Appetit Management Company on Food Sustainability U.S.A.

Session: Sustainability and Environment

- 09.30 – Response of marine planktonic microbial metabolism to florfenicol used in salmon farming, a microcosm approach.
09.45 María Lorena González – INCAR - Universidad de Concepción, Chile

- 09.45 – Socio-economic sustainability What remains to be done on the use of antibiotics in salmon farming?
10.00 Manuel Estay – INCAR - Universidad de Concepción, Chile

- 10.00 – Towards sustainable antibiotics use in aquaculture and antimicrobial resistance, participatory experts overview and recommendations
10.15 Daniela R. Farías - Monterey Bay Aquarium Global Program, U.S.A

- 10.15 – Metagenomic analysis of microbial communities in marine sediment associated with salmon farms under antimicrobial treatments in the Los Lagos region
10.30 Sergio Lynch – Universidad Santo Tomás – INCAR, Chile

- 10.30 – **Coffee Break**
11.00

Plenary lecture:

- 11.00 – Antibiotics in aquaculture: environmental exposure and ecological risks
11.30 Andreu Rico, Researcher at Cavanilles Institute of Biodiversity and Evolutive Biology, Valencia University, Spain.

Session: Optimising Antimicrobial Treatments

- 11.30 – In vitro release of microencapsulated oxytetracycline in formulations for oral administration in rainbow trout (*Oncorhynchus mykiss*)
11.45 Vicente G. Sánchez – Universidad de Chile, Chile

- 11.45 – Evaluation of the effect of three florfenicol doses against SRS in Atlantic salmon challenged by IP-injection when administered at an early stage of infection
12.00 Cacilie I. Lie – CERMAQ, Chile

- 12.00 – Evaluation of the efficacy of timely florfenicol treatments against SRS (*Piscirickettsia salmonis*) in Atlantic salmon by an ip challenge model
12.15 Pablo Ibieta - Proyecto PINCOY

- 12.15 – Pharmacokinetic profile of microencapsulated oxytetracycline using aromatic-aromatic interactions and zinc-alginate Microparticles for potential oral use in salmonids
12.30 Lina M. Trincado – FARMAVET – CASA OMSA – Universidad de Chile, Chile

- 12.30 – **Lunch (Including)**
14.00



Thursday, 21st of November 2024, CONT.

Session: Therapeutic alternatives to antimicrobials use

14.00 – 14.15	On-site validation of a probiotic to increment fish resilience against SRS Alin Casado – Biomar, Chile
14.15 – 14.30	A Natural Formulation Enhancing Antimicrobial Efficacy and Improving Animal Welfare Marcela P. Delgado - Sudvet corp, Chile
14.30 – 14.45	Positive effect of marine symbiotics supplementation on fish intestinal microbiota dysbiosis induced by antibiotic treatment Fanny Giudicelli – Marine Akwa R&D Center, France
14.45 – 15.00	New oral immunostimulant as an alternative to the use of antibiotics Pabla A. Barra – Laboratorio FAV, Chile
15.00 – 15.15	Nanostructured proteins for disease control in aquaculture developing sustainable alternatives for the industry Débora Torrealba – Universidad de O'Higgins, Chile
15.15 – 15.30	Development of a bacteriocin-based feed additive for the control of AHPND in shrimp aquaculture Griffin O'Driscoll – Organicin Scientific, U.S.A
15.30 – 15.45	Efficacy of a natural additive; boosting sustainability and health in salmon aquaculture Marcela P. Delgado - Sudvet corp, Chile
15.45 – 16.15	Coffee Break

Pitch Session

16.15 – 16.20	Development and evaluation of a novel quinone antibiotic for managing bacterial disease in aquaculture Javier Campanini-Salinas - Universidad San Sebastián, Chile
16.20 – 16.25	Evaluation of the in vitro antimicrobial effect of chitosan sulphated (CH-S) on the viability of <i>Piscirickettsia salmonis</i> Darwin Arrieta – Universidad de Chile, Chile
16.25 – 16.30	Evaluation of an endemic plant extract from Chile for the prevention of bacterial infections in salmonids Javier Campanini-Salinas - Universidad San Sebastián, Chile
16.30 – 16.35	Retention of oxytetracycline in biocompatibles polyesters for use in aquaculture Begoña F. Barros – Universidad Austral de Chile, Chile
16.35 – 16.40	AI-driven design of phytogetic additives for salmon health Francisco E. Arancibia – ISR-Bio, Chile
16.40 – 16.45	Study of the retention and controlled release of florfenicol (FF) from polymeric matrix Evelyn C. Binder – Universidad Austral de Chile, Chile
16.45 – 16.50	Innovative disease management comparative efficacy of florfenicol and natural additive as a powerful duo against <i>P. salmonis</i> in Atlantic salmon Marcela P. Delgado - Sudvet corp, Chile
16.50 – 16.55	Bibliographic evaluation of plant extracts as an alternative to the use of antibiotics in salmon farming Adanelys Serrano – Universidad de Concepción, Chile
17.00 – 19.30	Networking - Happy hour

Friday 22nd of November 2024	
11.00 – 11.30	Welcome Coffee
11.30 – 12.30	Plenary lecture (to be define)
12.30 – 13.00	Analyzing Congress results, overcoming challenges, and forging a path towards responsible antibiotic use in aquaculture." Congress Organizing comitee
13.00 – 15.00	Closing ceremony, awards and Final Cocktail
Preliminary program subject to changes (last update 10 October 2024)	

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Registration and further information in:



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