





 $20^{\text{th}}$  –  $22^{\text{nd}}$  of November  $\cdot$  Hotel Cumbres, Puerto Varas, Chile

# Wednesday 20th November 2024

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08.00 – 18.00	Accreditation
09.00 – 09.45	<ul> <li>Welcoming Ceremony</li> <li>Wendy Norden, Director Global Program, Monterey Bay Aquarium.</li> <li>Tomás Garate, Major Puerto Varas.</li> <li>Mónica Roja N., Chilean National Fisheries and Aquaculture Service</li> <li>Arturo Clément, SalmonChile President</li> </ul>
09.45 – 10.00	Introduction: Current situation and challenges of antibiotic use in global aquaculture Rolando Ibarra, Organizer Committee, Monterey Bay Aquarium.
10.00 – 10.30	Plenary lecture: Aquaculture in the Global Social-Ecological Climate Crisis: Pathways for Its Radical Transformation Dr. Barry A. Costa-Pierce, Nord University, Norway & Emeritus Professor, Univ. Rhode Island and UNE (Maine, USA)
10.30 – 11.00	Coffee Break
Session 1: Polic	y and regulations
Moderator: Rol	lando Ibarra – Javiera Cornejo
11.00 – 11.15	Challenges for the evaluation of veterinary products intended to use in aquaculture Carolina Marambio, SAG, Chile.
11.15 – 11.30	Surveillance of antimicrobial residues in aquaculture products: where do we stand today?  Javiera Cornejo, FARMAVET Laboratory, Universidad de Chile.
11.30 – 11.45	Controls on antibiotic use in shrimp aquaculture - Are they sufficient and effective Cormac O' Sullivan, Monterey Bay Aquarium Global Program, USA.
11.45 – 12.00	Regulatory Risk Assessment of veterinary medicinal products used in Aquaculture in Europe Andreu Rico, Cavanilles Institute of Biodiversity and Evolutive Biology, Universidad de Valencia, Spain.
12.00 – 12.15	Commitment: Yelcho, a commitment from the salmon industry to a new way of relating to the animal health sector Daniel Woywood, Aquabench, Chile.
12.15-12.30	Surveillance, Alert, and Response System (SVAR) Project for the reduction of antimicrobial use in salmon farming in Chile Osvaldo Sandoval del Valle, Chilean National Fisheries and Aquaculture Service, Chile.













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12.30 – 13.00	Plenary lecture: One health, one aquaculture. OMSA's tools to prevent RAM Alicia Gallardo Lagno, President of the World Organization of Animal Health (WOAH) Aquatic Animal Health Standards Commission.	
13.00 – 14.30	Lunch (Included)	
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, USA.	
	nicrobial Resistance bén Avendaño – Paola Olmos	
Moderator: Kui	Jen Avenuuno – Puolu Olmos	
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, Universidad Andrés Bello, Chile.	
15.30 – 15.45	Disease spillovers in Chile's salmon aquaculture industry Thomas M. Anderson Jr., Universidad de Florida, USA	
15.45 – 16.00	Low cost and effective antimicrobial resistance detection using NGS Alejandro Bisquertt, Codebreaker Bioscience, Chile	
16.00 – 16.30	Coffee Break	
	ention Strategies olo Ibieta - Daniela Farías	
16.30 – 16.45	Piscirickettsiosis in vivo infection model, from basics to outcome prediction Marcos Mancilla, ADL Diagnostic Chile, Chile.	
16.45 – 17.00	Breeding program for SRS resistance: A step towards a more sustainable Salmon farming industry Paulina López, AQUAGEN Chile, Chile.	
17.00 – 17.15	Antibiotic use in salmon aquaculture can be successfully decreased by employing proper strategies and practices Pablo Ibieta, Proyecto PINCOY, Chile.	
17.15 – 17.30	Infectious diseases prevention using nutritional tools Enzo Caravante, MOWI, Chile.	
17.30 – 17.45	Towards cost-effective reductions of antibiotic use in salmon aquaculture Thomas M. Anderson, Universidad de Florida, USA.	
18.00 – 20.00	Welcoming Cocktail	













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Thursday 21 <sup>st</sup> of November 2024				
09.00 – 09.30	Plenary lecture: Turning Sustainability into Market Advantage Maisie Ganzler, Lecturer, writer, and consultant for Bon Appetit Management Company on Food Sustainability USA.			
	Session 4: Sustainability and Environment Modera: Felipe Tucca - María Lorena González			
09.30 – 09.45	Towards sustainable antibiotics use in aquaculture and antimicrobial resistance, participatory experts overview and recommendations Daniela R. Farías, Monterey Bay Aquarium Global Program, USA.			
09.45 – 10.00	Socio-economic sustainability What remains to be done on the use of antibiotics in salmon farming?  Manuel Estay, INCAR, Universidad de Concepción, Chile.			
10.00 – 10.15	Response of marine planktonic microbial metabolism to florfenicol used in salmon farming, a microcosm approach María Lorena González, INCAR, Universidad de Concepción, Chile.			
10.15 – 10.30	Metagenomic analysis of microbial communities in marine sediment associated with salmon farms under antimicrobial treatments in the Los Lagos region Sergio Lynch, Universidad Santo Tomás, Chile.			
10.30 – 10.45	Benefits of oxygen supply in fish Salmo salar and its contribution to the efficacy of antibiotics treatments Pedro Palacios, OXZO S.A., Chile.			
11.00 – 11.30	Coffee Break			
11.30 – 12.00	Plenary lecture: Antibiotics in aquaculture: environmental exposure and ecological risks Andreu Rico, Researcher at Cavanilles Institute of Biodiversity and Evolutive Biology, Valencia University, Spain.			
Session 5: Optimizing Antimicrobial Treatments Moderator: Claudio Miranda - Sergio A. Lynch				
12.00 – 12.15	In vitro release of microencapsulated oxytetracycline in formulations for oral administration in rainbow trout (Oncorhynchus mykiss) Vicente G. Sánchez – Universidad de Chile, Chile.			
12.15 – 12.30	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 Carlos Zarza, Skretting, Noruega.			
12.30 – 12.45	Evaluation of the efficacy of timely florfenicol treatments against SRS (Piscirickettsia salmonis) in Atlantic salmon by an i.p challenge model Pablo Ibieta, TEKBIOS, Chile.			













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12.45 – 13.00	Pharmacokinetic profile of microencapsulated oxytetracycline using aromatic- aromatic interactions and zinc-alginate Microparticles for potential oral use in salmonids Lina M. Trincado, Laboratorio FARMAVET, Universidad de Chile, Chile.
13.00 – 14.30	Lunch (Included)
	apeutic alternatives to antimicrobial use n Casado – Alexander Jaramillo
14.30 – 14.45	On-site validation of a probiotic to increment fish resilience against SRS Alin Casado, Biomar, Chile.
14.45 – 15.00	A natural formulation enhancing antimicrobial efficacy and improving animal welfare Marcela P. Delgado, Sudvet Corp, Chile.
15.00 – 15.15	Positive effect of marine symbiotics supplementation on fish intestinal microbiota dysbiosis induced by antibiotic treatment Fanny Giudicelli, Marine Akwa R&D Center, Francia
15.15 – 15.30	New oral immunostimulant as an alternative to the use of antibiotics Pabla A. Barra, Laboratorio FAV, Chile.
15.30 – 15.45	Nanostructured proteins for disease control in aquaculture developing sustainable alternatives for the industry Débora Torrealba – Universidad de O'Higgins, Chile.
15.45 – 16.00	Efficacy of a natural additive; boosting sustainability and health in salmon aquaculture Marcela P. Delgado, Sudvet Corp, Chile.
16.00 – 16.15	Passive immunotherapy for Salmonids based on alpaca nanobodies Claudio Cappelli, Berking Biotechnology SpA
16.15 – 16.45	Coffee Break

## Pitch session 16.45 – 17.30

**Moderator: Felipe Tucca** 

Development and evaluation of a novel quinone antibiotic for managing bacterial disease in aquaculture

Benjamín Bustamante, Universidad San Sebastián, Chile.

Evaluation of the in vitro antimicrobial effect of chitosan sulphated (CH-S) on the viability of Piscirickettsia salmonis.

Darwin Arrieta, Universidad de Chile, Chile.

Evaluation of an endemic plant extract from Chile for the prevention of bacterial infections in salmonids

Benjamín Bustamante, Universidad San Sebastián, Chile.

Retention of oxytetracycline in biocompatibles polyesters for use in aquaculture Begoña F. Barros, Universidad Austral de Chile, Chile.













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Al-driven design of phytogenic additives for salmon health Francisco E. Arancibia, ISR-Bio, Chile.

Study of the retention and controlled release of florfenicol (FF) from polymeric matrix Evelyn C. Binder, Universidad Austral de Chile, Chile.

Innovative disease management comparative efficacy of florfenicol and C3COS as a powerful duo against P. salmonis in Atlantic salmon

Marcela P. Delgado, Sudvet corp, Chile.

Bibliographic evaluation of plant extracts as an alternative to the use of antibiotics in salmon farming

Adanelys Serrano, Universidad de Concepción, Chile.

Development of a bacteriocin-based feed additive for the control of AHPND in shrimp aquaculture

Adam Charest, Organicin Scientific, USA

17.30 – 20.00 Networking / Happy hour

	Friday 22 <sup>nd</sup> of November 2024
09.00 – 11.00	Workshop / Panel of experts Topics: 1. Environmental impacts. 2. Efficacy and Therapeutic alternatives. 3. AMR prevention. 4. Communication and Education on antibiotic use.
11.00 – 11.30	Coffee break
11.30 – 12.00	Plenary Lecture: The role of animal welfare in Antibiotic Stewardship: examples from broilers, laying hens and tilapia Oistein Thorsen, CEO Fai Farm
12.00 – 12.40	Workshop Conclusions (10 min per each workshop)
12.40 – 13.00	Alliance to collaborate and strengthen a global sustainable aquaculture
13.00 – 13.15	Closing Ceremony
13.30	Cocktail and awards





