

DEREK PRICE

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EDUCATION

PhD Veterinary Epidemiology. University of Prince Edward Island. 2017
Thesis: *Improving the prevention and control of piscirickettsiosis in Chile*.
Supervisors: Sophie St-Hilaire, DVM, MSc, PhD - Javier Sánchez, DVM, PhD

DVM. Universidad Austral de Chile. 1998
Thesis: *Detection of the Feline leukemia virus antigen and Feline immunodeficiency virus antibody in cats in the city of Valdivia*. Supervisor: Germán Reinhardt, DVM, Dr.med.vet.

RESEARCH EXPERIENCE

Postdoctoral Fellow. Canada Excellence Chair in Aquatic Epidemiology. 2017 – Present
Atlantic Veterinary College, UPEI, Charlottetown, Canada.

- Studied the spread of ISAV using a simulation model.
- Assessed the infectivity of SRS using a discrete-time survival model.
- Investigated tissue concentration of Emamectine benzoate during oral treatments.

PROFESSIONAL EXPERIENCE

Fresh Water Health Manager. Invermar S.A., Puerto Montt, Chile. 2010 – 2013

- Established disease prevention policies and control strategies for three hatcheries and two lake sites.
- Supervised several rearing contracts.
- Produced over 10 million Atlantic salmon, coho salmon, and rainbow trout smolts per year.

Veterinary Technical Support Manager. Aquagestion S.A., Puerto Montt, Chile. 2009 – 2010

- Lead team of 5 veterinarians and over 10 field technicians offering diagnostic services in aquaculture.
- Supervised branch offices in Santiago, Temuco, Puerto Montt, Puerto Aysén, and Punta Arenas.
- Provided technical support for clients and participated in applied research projects.

Fresh Water Veterinarian. Cultivos Yadrán S.A., Quellón, Chile. 2007 – 2008.

- Coordinated and supervised activities such as vaccinations, sampling for official health control programs.
- Provided veterinary services for two hatcheries, one lake site, and several rearing contracts.

Fish health manager. Cía. Salmonífera Dalcáhué Ltda., Dalcáhué, Chile. 2006 – 2007

- Established health policies and supervised health management for five hatcheries and one lake site to comply with sanitary and environmental regulations.
- Provided rearing services for other companies producing over 15 million smolts and fry every year.

Fresh Water Veterinarian. Cultivos Marinos Chiloé Ltda., Ancud, Chile. 2003 – 2006

- Supervised fish health for four hatcheries and one lake site as well as a number of rearing contracts.
- Designed and established prevention and control plans for diseases in fresh water stage.
- Assisted the Fresh Water production manager in planning and control of production and expenses.
- Maintained traceability database for the quality assurance department.

Laboratory Technician and Technical Support. Biovac S.A., Puerto Aysén, Chile. 2000 – 2002

- Carried out laboratory assays such as ELISA, IFAT, RT-PCR, and culture of bacteria and virus.
- Provided veterinary services for fresh water and seawater farms in the Aysén Region.

TEACHING EXPERIENCE

Guest lecturer, Fish Health (VHM-413). *Spring 2016.*

Department of Health Management, University of Prince Edward Island.

Guest lecturer, Fish Health (VHM-413). *Spring 2014.*

Department of Health Management, University of Prince Edward Island.

PUBLICATIONS

In Preparation

Gautam, R., Gardner, I.A., Klotins, K., Revie, C., Vanderstichel, R., **Price, D.**, Beattie, M., Gustafson, L. 2018. **Risk-ranking of Atlantic salmon (*Salmo salar*) farms to minimize spread of infectious salmon anaemia virus (ISAv) among neighbouring marine sites in eastern Canada and the United States.** *Preventive Veterinary Medicine.*

Submitted

Price, D., Sánchez, J., Ibarra, R., St-Hilaire, S., 2018. **Variation in the concentration of antibiotics in tissue during oral antibiotic treatments in farmed salmonids.** *Aquaculture.*

Price, D., Sánchez, J., McClure, J., McConkey, S., Ibarra, R., St-Hilaire, S., 2017. **Assessing concentration of antibiotics in tissue during oral treatments against piscirickettsiosis.** *Preventive Veterinary Medicine.*

Published (Peer-reviewed)

Price, D., Ibarra, R., Sánchez, J., St-Hilaire, S., 2017. **A retrospective assessment of the effect of fallowing on piscirickettsiosis in Chile.** *Aquaculture* 473, 400–406.

Price, D., Stryhn, H., Sánchez, J., Ibarra, R., Tello, A., St-Hilaire, S., 2016. **Retrospective analysis of antibiotic treatments against piscirickettsiosis in farmed Atlantic salmon *Salmo salar* in Chile.** *Diseases of Aquatic Organisms* 118, 227–35.

St-Hilaire, S., **Price, D.**, Taylor, S., Groman, D., 2015. **Treatment of diplomonad intestinal parasites with magnesium sulphate at a commercial rainbow trout (*Oncorhynchus mykiss*) facility.** *Canadian Veterinary Journal* 56, 876–8.

AWARDS

Early career development grant (CAD \$2,215). Canada Excellence Research Chair in Aquatic Epidemiology, University of Prince Edward Island. *2015*

PhD 3-year scholarship (CAD \$51,000 per year). Canada Excellence Research Chair in Aquatic Epidemiology, University of Prince Edward Island. *2014*

PRESENTATIONS

Factores que predisponen a falla de un tratamiento con antibióticos y efecto de los descansos sanitarios sobre el riesgo de SRS. Taller de Epidemiología, Programa para la gestión sanitaria en acuicultura, Sernapesca. Valparaíso, Chile. *2017*

Risk factors for treatment failure in antibiotic treatments against Piscirickettsiosis in farmed Atlantic salmon in Chile. Atlantic Canada Fish Farmers Association Annual Conference. St. Andrews, NB, Canada. *2016*

Risk factors for treatment failure in antibiotic treatments against Piscirickettsiosis in farmed Atlantic salmon in Chile. AquaEpi I. Oslo, Norway. *2016*

Effectiveness of antibiotic treatments against piscirickettsiosis in farmed Atlantic salmon (*Salmo salar*) in Chile. 24th Annual Graduate Studies and Research days, UPEI. Charlottetown, PE, Canada. *2016*

Efectividad de tratamientos antimicrobianos contra piscirickettsiosis en salmón del atlántico (*Salmo salar* L.) en Chile. V Jornadas de Investigación en Salmonicultura. Puerto Varas, Chile. *2015*

Antibiotic treatment of bacterial diseases in large salmon populations. Atlantic Canada Fish Farmers Association Annual Conference. St. Andrews, NB, Canada. *2014*

PROFESSIONAL DEVELOPMENT

Epi on the Island workshops (Centre for Veterinary Epidemiological Research, UPEI)

Introduction to multilevel modelling. Dohoo, I., Stryhn, H., Sanchez, J. *2016*

Survival analysis. Dohoo, I., Stryhn, H., Sanchez, J. *2015*

Time series regression. Armstrong, B. and Stryhn, H. *2015*

Bias in observational studies. Dohoo, I. and Stryhn, H. *2014*

Bioinformatics for veterinary epidemiologists. Durr, P. and Halpin, K. *2014*

Other workshops

Networking Skills. Johnstone, K., Mitacs. Charlottetown, PE, Canada. *2017*

Statistical downscaling of global climate models: SDSM 5.1.1. Jien, J., UPEI Climate lab. Charlottetown, PE, Canada. *2014*

CERTIFICATIONS

HACCP auditor. SERNAPESCA. Puerto Montt, Chile. *2010*

ISO-NCh 17025 Of. 2005 auditor. Instituto de Salud Pública. Puerto Montt, Chile. *2009*

SKILLS

Languages: Spanish (native), English (fluent).

Programming: R, Stata, Bash, \LaTeX , Markdown.

Other Software: GIT, QGIS, AnyLogic, MLWin, MS-Office, FishTalk.

COMMUNITY SERVICE

Vice President, Home & School Board, Parkdale Elementary. Charlottetown, PE, Canada. *2017 – 2018*

President, Veterinary student association. Universidad Austral de Chile, Valdivia, Chile. *1994 – 1995*