

DEREK PRICE

550 University Avenue, Charlottetown, PEI, C1A4P3, Canada
+ 1 (902) 330-1831 – dprice@upei.ca
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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 Veterinarian. 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.

Chief Veterinary Services. 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.

Health manager. Cía. Salmonífera Dalcáhue Ltda., Dalcáhue, 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, L^AT_EX, Markdown.

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

COMMUNITY SERVICE

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

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

REFERENCES

Sophie St-Hilaire, DVM, MSc, PhD, MBA

Professor of Aquatic Animal Health

Department of Infectious Diseases and Public Health, College of Veterinary Medicine and Life Sciences
City University of Hong Kong, Kowloon, Hong Kong

Javier Sánchez, DVM, PhD

Associate professor, Epidemiology

Department of Health Management, Atlantic Veterinary College, University of Prince Edward Island,
Charlottetown, Canada

Ian Gardner, DVM, MPVM, PhD

Professor and Canada Excellence Research Chair (Aquatic Epidemiology)

Department of Health Management, Atlantic Veterinary College, University of Prince Edward Island,
Charlottetown, Canada