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▪ **EDUCATION**

**Ph.D., Aquaculture and Molecular biology**, Institute of Health and Biomedical Innovation, Queensland University of Technology, Australia, 2009

**Bachelor of Science with Honors, Aquaculture and Molecular Biology**, James Cook University, Australia, 2002

▪ **PROFESSIONAL EXPERIENCE**

**California Sea Grant Extension Specialist** 2018 - present, Moss Landing Marine Laboratories, Moss Landing, CA

**Postdoctoral Research Associate** 2009-2018, School of Humanities & Sciences, Hopkins Marine Station. Stanford University, Pacific Grove, CA

**Research Technician** 2005 – 2006, University of Sunshine Coast, Australia

**Fisheries Biologist**, 2003 – 2004, Queensland Department of Primary Industries and Fisheries, Australia

▪ **PUBLICATIONS**

***In preparation***

**Gardner L.**, Fandino, N., Parish, G., Block B., In preparation. Physiological assessment of bacterial meal as an alternative protein feed source for *Seriola lalandi dorsalis*. Aquaculture

**Gardner L.**, Sassoubre L, Mendoza N, Chapple T, Jorgensen S, Boehm A, Block B. In preparation. Temporal detection of a White Shark population (*Carcharodon carcharias*) using eDNA, acoustic and visual techniques during the course of an annual migration. Environmental Science and Technology.

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**Gardner, L.**, Incardona, J., Scholz, N., Block., B. In Preparation. The legacy of Exxon Valdez oil spill: genomic identification of underlying cardiac anatomical changes from embryonic oil exposure in pink salmon. Environmental Science and Technology

## *In review*

**Gardner L**, Castilho P, Jayasundara N, Sanders J, Block B. In review. Genomic responses to environmental stress revealed in skin mucous of pacific bluefin tuna. *Aquaculture*

## *In Print*

**Gardner, Luke**. "Temporal Tracking of Mineralization and Transcriptional Events Associated with Shell Formation During the Early Life History of Pearl Oyster *Pinctada maxima*." 2016. *Current Biotechnology* 4.

Lauren M. Sassoubre, Kevan M. Yamahara, **Luke Gardner**, Barbara Block, Alexandria B. Boehm. Quantification of Environmental DNA (eDNA) Shedding and Decay Rates for Three Marine Fish. *Environmental Science and Technology*. 2016, 50 (19), pp 10456–10464.

Klinger, Dane H., Jonathan J. Dale, Adrian C. Gleiss, Tyler Brandt, Ethan E. Estess, **Luke Gardner**, Benjamin Machado et al. "The effect of temperature on postprandial metabolism of yellowfin tuna (*Thunnus albacares*)." *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* (2016).

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John P. Incardona, **Luke D. Gardner**, Tiffany L. Linbo, Tanya L. Brown, Andrew J. Esbaugh, Edward M. Mager, John D. Stieglitz, Barbara L. French, Jana S. Labenia, Cathy A. Laetz, Mark Tagal, Catherine A. Sloan, Abigail Elizur, Daniel D. Benetti, Martin Grosell, Barbara A. Block, Nathaniel L. Scholz. 2014. Deepwater Horizon crude oil impacts the developing hearts of large predatory pelagic fish. *PNAS*: 111: E1510-E1518.

Jayasundara N, **Gardner L**, Block, B. 2013. Effects of Temperature Acclimation on Pacific Bluefin Tuna (*Thunnus orientalis*) Cardiac Transcriptome. *American Journal of Physiology* 305: R1010-R1020.

Incardona JP, Swarts TL, Edmunds RC, Linbo TL, Aquilina-Beck A, Sloan CA, **Gardner LD**, Block BA, Scholz NL. 2013. Exxon Valdez to Deepwater Horizon: comparable toxicity of both crude oils to fish early life stages. *Aquat Toxicol* 142-143: 303-316.

**Gardner L**, Jayasundara N, Castilho P, Block, B. 2012. Microarray gene expression profiles from mature gonad tissues of Atlantic Bluefin Tuna, *Thunnus Thynnus* in the Gulf of Mexico. *BMC Genomics* 13: 530.

**Gardner L**, Mills D, Wiegand A, Leavesley D, Elizur A. 2011. Spatial analysis of biomineralization associated gene expression from the mantle organ of the pearl oyster *Pinctada maxima*. *BMC Genomics* 12: 455.

Brooker, L.R., **Gardner, L.**, Macey., D.J. & Elizur, A. 2006. Genes associated with biomineralisation processes in the radular teeth of chitons. *Molluscs* 06, Wollongong, NSW, 6-8 Dec. p18-19.

**Gardner, L.**, Anderson, T., Place, A.R., & Elizur A. 2005. Sex change strategy and the aromatase genes. *Journal of Steroid Biochemistry & Molecular Biology* 94: 395 – 404.