

Daphne Munroe, Ph.D., B.Sc. Hon.
HASKIN SHELLFISH RESEARCH LABORATORY
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Education

- **Ph.D.** Animal Science, supervisor: Dr. R. S. McKinley, University of British Columbia, 2006
 - o Dissertation topic: How use of predator nets on clam farms alters clam recruitment patterns.
- **B.Sc.Hon.** Environmental Science, Simon Fraser University, 2000.
 - o Thesis topic: Interactions of intertidal clam farming with benthic biodiversity

Research Interests

Shellfisheries & Aquaculture	Coastal Ecosystem Interactions	Larval Ecology
Population Ecology	Invertebrate Zoology	Marine Resource Management

Professional Experience

2013-Current - Assistant Professor – Haskin Shellfish Research Lab
2012 - Assistant Research Professor – Haskin Shellfish Research Lab
2010-2012 - Post Doctoral Researcher – Haskin Shellfish Research Lab
Summer 2010 - Scientific Reviewer – MelMor Science
Spring 2010 - Sessional Instructor – Vancouver Island University, Math Department
Fall 2009 - Sessional Instructor – Vancouver Island University, Fisheries & Aquaculture
2007 – 2009 - Post Doctoral Researcher – Hokkaido University
2007 - Contract Biologist: Salmon Outmigration – BC Hydro
2006 - Editorial Assistant - 2007 Canadian Aquaculture R&D Review
2002- 2006 - Graduate Researcher – University of British Columbia
2005-2006 - Instructor – Malaspina University-College

Publications (Recent articles published in refereed journals):

- Munroe, D.,** A. Tabatabai, I. Burt, D. Bushek, J. Wilkin, E. Powell. *In Review*, Oyster Mortality in Delaware Bay: Impacts and Recovery from Hurricane Irene and Tropical Storm Lee. *Estuarine Coastal and Shelf Science*.
- Munroe, D.,** J. Klinck, E. Hofmann, and E.N.P. Powell. 2013 Oyster Shellfisheries and Metapopulation Genetic Connectivity: A Modeling Study with Delaware Bay Oysters Comparing Seed Harvest and Size-Limit Fisheries. *Canadian Journal of Fisheries and Aquatic Sciences*. *In Press*.
- Munroe, D.,** J. Klinck, E. Hofmann, and E.N.P. Powell. 2013 A Modeling Study of Metapopulation Genetic Connectivity in Delaware Bay Oysters and the Role of Marine Protected Areas. *Aquatic Conservation*. *In Press*.
- Munroe, D.,** Powell, E.N.P., Mann, R., Klinck, J., Hofmann, E. 2013. Underestimation of primary productivity on continental shelves: evidence from maximum size of extant surfclam populations. *Fisheries Oceanography*. 22: 220-233.
- Munroe, D.,** Klinck, J., Hofmann, E., Powell, E.N.P. 2012. The role of larval dispersal in metapopulation gene flow: local population dynamics matter. *Journal of Marine Research*. 70: 441-467.
- Munroe, D.M.,** and Noda, T. 2010. Physical and Biological Factors Contributing to Changes in the Relative Importance of Recruitment to Population Dynamics in Open Populations. *Marine Ecology Progress Series* 412: 151-162.
- Munroe, D.M.,** Noda, T., and Ikeda, T. 2010. Shore Level Differences in Barnacle (*Chthamalus dalli*) Recruitment Relative to Rock Surface Topography. *Journal of Experimental Marine Biology and Ecology* 392: 188-192.

- Munroe, D.M.**, and T. Noda. 2009. Spatial pattern of rocky intertidal barnacle recruitment: comparison over multiple tidal levels and years. *Journal of the Marine Biological Association of the United Kingdom* 89(2): 345-353.
- Munroe, D. M.**, and R. S. McKinley. 2007. Effect of predator netting on recruitment and growth of Manila clams (*Venerupis philippinarum*) on soft substrate intertidal plots in British Columbia, Canada. *Journal of Shellfish Research*. 26(4): 1035-1044.
- Munroe, D. M.** and R. S. McKinley. 2007. Commercial Manila clam (*Tapes philippinarum*) tenures in British Columbia, Canada: the effects of anti-predator netting on intertidal sediment characteristics. *Estuarine, Coastal and Shelf Science*. 72: 319-328.
- Munroe, D.**, and S. McKinley. 2005. Consideration of turbulence in calibration of plaster blocks used for flow measurement. *Aquaculture Canada 2004 Proceedings of Contributed Papers*. AAC Spec. Publ. No. 9. C.I. Hendry Editor.
- Munroe, D. M.**, D. Bright and S. McKinley. 2004. Separation of Recently Settled Manila Clams (*Tapes philippinarum* A. Adams and Reeve, 1850) From Three Sediment Types Using Sucrose Density Solution. *Journal of Shellfish Research*, 23(1):89-92.

Recent Grants and Awards:	Value:	Held At:
Student Computers (8iMACs for student use)	\$9,600	Rutgers University
NOAA Fisheries and the Environment (FATE)	\$185,108	Rutgers University
ICES 2012 Early Career Scientist Award	\$1400	Rutgers University
VIU Research Fund	\$4000	Vancouver Island University
VIU Bamfield Research Fellowship	\$2500	Vancouver Island University
Global COE Travel Award	\$4000	Hokkaido University
JSPS Postdoctoral Fellowship	\$63,000	Hokkaido University
NSERC PGSD2	\$42,000	University of BC
Aquaculture Association of Canada	\$1,000	University of BC
NSERC PGS A	\$34,600	University of BC
Graduate Tuition Bursary	\$1,450	University of BC
Agricultural Sci. Grad. Supplement	\$680	University of BC
L. S. Klink Fellowship	\$1,320	University of BC
S.F.U. Open Scholarship	\$1,848	Simon Fraser University
Regional Summit Award	\$3,500	Simon Fraser University

Collaborators and Co-Editors:

N. Bourne (Department of Fisheries and Oceans); D. Bushek (Rutgers University), X. Guo (Rutgers University), H. Gurney-Smith (Vancouver Island University); D. Haidvogel (Rutgers University); E. Hofmann (Old Dominion University); J. Klinck (Old Dominion University); R. Mann (Virginia Institute of Marine Science); A. McCarthy (Vancouver Island University); B. McCay (Rutgers University); D. Narvaez (Old Dominion University); T. Noda (Hokkaido University); W. Pennell (Vancouver Island University), T. Soniat (University of New Orleans).

Graduate Advisors and Postdoctoral Sponsors:

Graduate Advisor: Dr. Scott McKinley (The University of British Columbia)

Postdoctoral Advisors: Dr. Takashi Noda (Hokkaido University); Dr. Eric Powell (Rutgers University)

Student Mentoring:

Current Students: Xinzhong(Peter) Zhang (Co-Advisor PhD Candidate, Rutgers University);

Jason Morson (Advisor, PhD Candidate, Rutgers University)

Previous Students: Keiichi Fukaya (PhD 2009, Hokkaido University); Andrea Bozman (B.Sc. student, Vancouver Island University).