

## 1999 REFEREED PUBLICATIONS

1. Bernier, N.J.; Gilmour, K.M.; Takei, Y.; Perry, S.F. 1999. Cardiovascular control via angiotensin II and circulating catecholamines in the spiny dogfish, "Squalus acanthias" J. Comp. Physiol. B 169:237-248.
2. Boulding, E.G.; Holst, M.; Pilon, V. 1999. Changes in selection on gastropod shell size and thickness with wave-exposure on Northeastern Pacific shores. J. Exp. Mar. Biol. Ecol. 232:217-239.
3. Cameron, C.B.; Mackie, G.O.; Powell, J.F.F.; Lescheid, D.W.; Sherwood, N.M. 1999. Gonadotropin-releasing hormone in mulberry cells of "Saccoglossus" and "Ptychodera" (Hemichordata: Enteropneusta) Gen. Comp. Endocrinol. 114:2-10.
4. Chambers, P.A.; DeWreede, R.E.; Irlandi, R.E.; Vandermeulen, H. 1999. Management issues in macrophyte ecology: a Canadian perspective. Can. J. Bot. 77:471-487.
5. Davoren, G.K.; Burger, A.E. 1999. Differences in prey selection and behaviour during self-feeding and chick provisioning in rhinoceros auklets. Anim. Behav. 58:853-863.
6. Donovan, D.A.; Baldwin, J.; Carefoot, T.H. 1999. The contribution of anaerobic energy to gastropod crawling and a re-estimation of minimum cost of transport in the abalone, "Haliotis kamtschatkana" (Jonas). J. Exp. Mar. Biol. Ecol. 235:273-284.
7. Donovan, D.A.; Danko, J.-P.; Carefoot, T.H. 1999. Functional significance of shell sculpture in gastropod molluscs: test of a predator-deterrent hypothesis in "Ceratostoma foliatum" (Gmelin) J. Exp. Mar. Biol. Ecol. 236:235-251.
8. Gallin, W.J.; Spencer, A.N. 1999. "Evolution of potassium channels". In Potassium Channels in Cardiovascular Biology. Archer and Rush, eds., Plenum Publishing Co., New York.
9. Gannesin, R.C.; Sanders, S.M.; Kennedy, C.J.; Joyce, E.M.; Bols, N.C. 1999. Development and characterization of a cell line from Pacific herring, "Clupea harengus pallasii", sensitive to both naphthalene cytotoxicity and infection by viral hemorrhagic septicemia virus. Cell Biol Toxicol. 15:299-309.
10. Grigoriev, N.G.; Spafford, J.D.; Spencer, A.N. 1999. The effects of level of expression of a jellyfish "Shaker" potassium channel: a positive potassium feedback mechanism. J. Physiol. 517:25-33.

11. Grigoriev, N.G.; Spafford, J.D.; Spencer, A.N. 1999. Modulation of jellyfish potassium channels by external potassium ions. *J. Neurophysiol.* 82:1728-1739.
12. Grigoriev, N.G.; Spafford, J.D.; Spencer, A.N. 1999. Residues in a jellyfish "Shaker" channel involved in modulation by external potassium. *J. Neurophysiol.* 82:1740-1747.
13. Grosell, M.; DeBoeck, G.; Johannsson, O.; Wood, C.M. 1999. The effects of silver on intestinal ion and acid-base regulation in the marine teleost fish "Parophrys vetulus" *Comp. Biochem. Physiol. C* 124:259-270.
14. Hogstrand, C.; Ferguson, E.A.; Galver, F.; Shaw, J.R.; Webb, N.A.; Wood, C.M. 1999. Physiology of acute silver toxicity in the starry flounder ("Platichthys stellatus") in seawater. *J. Comp. Physiol. B.* 169B:461-473.
15. Hudson, J.B.; Kim, J.H.; Lee, M.K.; DeWreede, R.E.; Hong, Y.K. 1999. Antiviral compounds in extracts of Korean seaweeds: evidence for multiple activities. *J. Appl. Phycol.* 10:427-434.
16. Hudson, J.B.; Kim, J.H.; Lee, L.K.; DeWreede, R.E.; Hong, Y.K. 1999. Multiple antiviral activities in extracts of seaweeds from British Columbia. *Pharmac. Biol.* 37:1-7.
17. Jones, K.M.M.; Boulding, E.G. 1999. State-dependent habitat selection by an intertidal snail: the costs of selecting a physically stressful microhabitat. *J. Exp. Mar. Biol. Ecol.* 242:149-177.
18. Leys, S.P.; Mackie, G.O.; Meech, R.W. 1999. Impulse conduction in a sponge. *J. Exp. Biol.* 202:1139-1150.
19. Leys, S.P. 1999. The choanosome of hexactinellid sponges. *Invert. Biol.* 118:221-235.
20. Loewen, S.K.; Ng, A.M.L.; Yao, S.Y.M.; Cass, C.E.; Baldwin, S.A.; Young, J.D. 1999. Identification of amino acid residues responsible for the pyrimidine and purine nucleoside specificities of human concentrative Na<sup>+</sup>-nucleoside cotransporters hCNT1 and hCNT2. *J. Biol. Chem.* 274:24475-24484.
21. Martel, A.L.; Robles, C.; Beckenbach, K.; Smith, M.J. 1999. Distinguishing early juveniles of Eastern Pacific mussels ("Mytilus" spp.) using morphology and genomic DNA. *Invertebr. Biol.* 118:149-164.
22. McGaw, I.J.; McMahon, B.R. 1999. Actions of putative cardioinhibition substances on the in vivo decapod cardiovascular system. *J. Crust. Biol.* 19:435-449.

23. McKendry, J.E.; Bernier, N.J.; Takei, Y.; Duff, D.W.; Olson, K.R.; Perry, S.F. 1999. Natriuretic peptides and the control of catecholamine release in two freshwater teleost and a marine elasmobranch fish. *Fish Physiol. Biochem.* 20:61-77.
24. Palmer, A.R.; Taylor, G.M.; Barton, A. 1999. Cuticle strength and the size-dependence of safety factors in "Cancer" crab claws. *Biol. Bull.* 196:281-294.
25. Palmer, A.R. 1999. Detecting publication bias in meta-analyses: a case study of fluctuating asymmetry and sexual selection. *Amer. Nat.* 154:220-233.
26. Perry, S.F.; Gilmour, K.M.; Bernier, N.J.; Wood, C.M. 1999. Does gill boundary layer carbonic anhydrase contribute to carbon dioxide excretion: a comparison between dogfish ("*Squalus acanthias*") and rainbow trout ("*Oncorhynchus mykiss*") *J. Exp. Biol.* 202:749-756.
27. Powlik, J.J. 1999. Habitat characters of "*Tigriopus californicus*" (Copepoda: Harpacticoida), with notes on the dispersal of supralittoral fauna. *J. Mar. Biol. Ass.* 79:85-92.
28. Rawlings, T.A. 1999. Adaptations to physical stress in the intertidal zone: The egg capsules of neogastropod molluscs. *Amer. Zool.* 39:230-243.
29. Rochette, R.; Maltais, M.-J.; Dill, L.M.; Himmelman, J.H. 1999. Interpopulation and context-related differences in responses of a marine gastropod to predation risk. *Anim. Behav.* 57:977-987.
30. Saunders, G.W.; Strachan, I.M.; Kraft, G.T. 1999. The families of the order Rhodymeniales (Rhodophyta): a molecular-systematic investigation with a description of Faucheaceae fam. nov. *Phycologia* 38:23-40.
31. Scrosati, R.; DeWreede, R.E. 1999. Demographic models to stimulate the stable ratio between ecologically similar gametophytes and tetrasporophytes in populations of the Gigartinaceae (Rhodophyta) *Phycol. Res.* 47:153-158.
32. Smith, T.E.; Ydenberg, R.C.; Elner, R.W. 1999. Foraging behavior of an excavating predator, the red rock crab ("*Cancer productus*" Randall) on the soft-shell clam ("*Mya arenaria*" L.) *J. Exp. Mar. Biol. Ecol.* 238:185-197.
33. Spafford, J.D.; Spencer, A.N.; Gallin, W.J. 1999. Genomic organization of a voltage-gated Na<sup>+</sup> channel in a hydrozoan jellyfish: insights into the evolution of voltage-gated genes. *Receptors and Channels* 6:493-506.

34. Sussmann, A.V.; Mable, B.K.; DeWreede, R.E.; Berbee, M.L. 1999. Identification of green algal endophytes as the alternative phase of "Acrosiphonia" (Codiolales, Chlorophyta) using ITS1 and ITS2 ribosomal DNA sequence data. *J. Phycol.* 35:607-614.
35. Wood, C M.; Playle, R.C.; Hogstrand, C. 1999. Physiology and modelling of mechanisms of silver uptake and toxicity in fish. *Environ. Toxicol. Chem.* 18:71-83.

## **NONREFEREED PUBLICATIONS AND REPORTS**

1. Cody, M. L. 1999. Assembly rules at different scales in plant and bird communities. In: *Ecological assembly rules: perspectives, advances, retreats*. Edited by E. Wieher and P. Keddy. Cambridge University Press, 1999, pp 165-205.
2. Gallin, W.J.; Spencer, A.N. 1999. Evolution of potassium channels. In: *Potassium Channels in Cardiovascular Biology*, edited by Archer and Rush, Plenum Publishing Co., New York. (in press, accepted April 1999)
3. DISSERTATIONS AND THESES
4. Cameron, C.B. 1999. The phylogeny of the hemichordata and ecology of two new enteropneust species from Barkley Sound. Ph.D. thesis, University of Alberta, Edmonton, AB.
5. Lin, Y.C.J. 1999. Aspects of excitation-contraction coupling and wound healing in striated muscles of the hydromedusa, "Polyorhis penicillatus" - and labelling of the nervous system using a monoclonal antibody. Ph.D. thesis, University of Alberta, Edmonton, AB.
6. Liptack, M.K. 1999. Contributions to the molecular biology of kelp. Ph.D. thesis, Simon Fraser University, Burnaby, BC.
7. Tanasichuk, R.W. 1999. Euphausiids in a coastal upwelling ecosystem: their importance as fish prey, interannual variations in euphausiid population biology, and some implications of these changes for fish production. Ph.D. Thesis, University of Bergen, Norway.
8. Taylor, G.M. 1999. The biomechanics and evolution of "Cancer" crab claws. Ph.D. thesis, University of Alberta, Edmonton, AB.
9. Uyeno, Theodore Akira. 1999. Comparative morphology and evolutionary trends in the class Gastropoda through three-dimensional tomography and DNA sequence analysis. M.Sc. thesis, University of Calgary, Calgary, AB.

10. Warneboldt, J. 1999. "Macrocystis integrifolia" Bory blade colour as a bio-indicator of ambient nitrate concentration. B.Sc. honours thesis, Simon Fraser University, Burnaby, BC.

11. ABSTRACTS

12. Bates, W.R. 1999. Expression of FGF and distal-less during the outgrowth of ascidian ampulae. *Dev. Biol.* 210:31.

13. Bishop, C.D.; Bates, W.R.; Brandhorst, B.P. 1999. Regulation of metamorphosis in ascidians. *Am. Zool.* 39:459A.

14. Levitan, D.R. 1999. The fertilization ecology of three congeneric sea urchins from the northeastern Pacific. *Amer. Zool.* 39:38A.