

2001 REFEREED PUBLICATIONS

1. Arsenault, D.J., Marchinko, K.B., Palmer, A.R. 2001. Precise tuning of barnacle leg length to coastal wave action. *Proceedings of the Royal Society of London. Series B, Biological sciences.* 268:2149-2154.
2. Bishop, C.D., Bates, W.R., Brandhorst, B.P. 2001. Regulation of metamorphosis in ascidians involves NO/cGMP signaling and HSP90. *Journal of Experimental Zoology.* 289:374-384.
3. Boulding, E.G., Hay, T.K. 2001. Genetic and demographic parameters determining population persistence after a discrete change in the environment. *Heredity* 86:313-324.
4. Boulding, E.G., Pakes, D., Kamel, S. 2001. Predation by the pile perch, *Rhacochilus vacca*, on aggregation of the gastropod *Littorina sitkana*. *Journal of Shellfish Research.* 20:403-409.
5. Bresciaini, J., Lopez-Gonzalez, P.J. 2001. *Arthurhumesia canadiensis*, new genus and species of a highly transformed parasitic copepod (Crustacea) associated with an ascidian from British Columbia. *Journal of Crustacean Biology* 21(1):90-95.
6. Burger, A.E. 2001. Using radar to estimate populations and assess habitat associations of marbled murrelets. *Journal of Wildlife Management.* 65:696-715.
7. DeBoeck, G., Grosell, M., Wood, C.M. 2001. Sensitivity of the spiny dogfish (*Squalus acanthias*) to waterborne silver exposure. *Aquatic Toxicology.* 54(3-4): 261-275.
8. Fudge, D.S. 2001. Hagfishes: champions of slime. *Nature Australia* 27: 60-69.
9. Gilmour, K.M., Perry, S.F., Bernier, N.J., Henry, R.P., Wood, C.M. 2001. Extracellular carbonic anhydrase in the dogfish, *Squalus acanthias*: A role in CO₂ excretion. *Physiological and biochemical zoology* 74: 477-492.
10. Grosell, M., Laliberte, C.N., Wood, S., Jensen, F.B., Wood, C.M. 2001. Intestinal HCO₃ secretion in marine teleost fish: evidence for an apical rather than a basolateral Cl/HCO₃ exchanger. *Fish Physiology and Biochemistry.* 24: 81 - 95.
11. Grosell, M., Wood, C.M. 2001. Branchial versus intestinal silver toxicity and uptake in the marine teleost (*Parophrys vetulus*) *Journal of Comparative physiology B.* 171: 585-594.

12. Gundacker, D., Leys, S.P., Schröder, H.C., Müller, I.M. and W.E.G. Müller, 2001. Isolation and cloning of the C-type lectin from the hexactinellid sponge *Aphrocallistes vastus*: A species-unspecific aggregation factor. *Glycobiology* 11(1):21-29.
13. Hamilton, S.R., Yao, S.Y.M., Ingram, J.C., Hadden, D.A., Ritzel, M.W.L., Gallagher, M.P., Henderson, P.J.F., Cass, C.E., Young, J.D., Baldwin, S.A. 2001. Subcellular distribution and membrane topology of the mammalian concentrative Na⁺-nucleoside cotransporter rCNT1. *Journal of Biological Chemistry*. 276:27981-27988.
14. Harper, J.T., Saunders, G.W. 2001. Molecular systematics of the florideophyte red algae (Florideophyceae, Rhodophyta) using nuclear large and small sub-unit ribosomal DNA sequence data. *Journal of Phycology*. 37: 1073-1082.
15. Hohenlohe, P.A., Boulding, E.G. 2001. A molecular assay identifies morphological characters useful for distinguishing the sibling species: *Littorina sitkana* and *L. plena*. *Journal of Shellfish Research*. 20:453-457.
16. Hurd, C.L., Durante, K.M., Harrison, P.J. 2001. Influence of bryozoan colonization on the physiology of the kelp *Macrocystis integrifolia* (Laminariales, Phaeophyta) from nitrogen-rich and -poor sites in Barkley Sound, British Columbia, Canada. *Phycologia* 39:435-440.
17. Laurent P., Wood, C.M., Wang, Y., Perry, S.F., Gilmour, K.M., Paert, P., Chevalier, C., West, M., Walsh, P.J. 2001. Intracellular vesicle trafficking in the gill epithelium of urea secreting fish. *Cell and Tissue Research* 303:197-210.
18. Levitan, D.R., Irvine, S.D. 2001. Fertilization selection on egg and jelly-coat size in the sand dollar *Dendraster excentricus*. *Evolution* 55:2479-2483.
19. Lin, Y.C.J., Gallin, W.J., Spencer, A.N. 2001. The anatomy of the nervous system of the hydrozoan jellyfish, *Polyorchis penicillatus*, as revealed by a monoclonal antibody. *Invertebrate neuroscience* 4: 65 - 75
20. Lin, Y.C.J., Spencer, A.N. 2001. Calcium currents from jellyfish striated muscle cells: preservation of phenotype, characterization of currents and channel localization. *Journal of Experimental Biology*. 204:3717-3726.
21. Lin, Y.C.J., Spencer, A.N. 2001. Localization of intracellular calcium stores in the striated muscles of the jellyfish *Polyorchis penicillatus*: possible involvement in excitation contraction coupling. *Journal of Experimental Biology* 204:3727-3736.

22. Martel, A.L., Baldwin, B.S., Dermott, R.M., Lutz, R.A. 2001. Species and epilimnion/hypolimnion-related differences in size at larval settlement and metamorphosis in *Dreissena* (Bivalvia) *Limnology and Oceanography* 46:707-713.
23. Martel, A.L., Pathy, D.A., Madill, J.B., Renaud, C.B., Dean, S.L., Kerr, S.J. 2001. Decline and regional extirpation of freshwater mussels (Unionidae) in a small river system invaded by *Dreissena polymorpha*: the Rideau River, 1993-2000. *Canadian Journal of Zoology* 79: 2181-2191.
24. McGaw, I.J. 2001. Impacts of habitat complexity on physiology: purple shore crabs tolerate osmotic stress for shelter. *Estuarine, Coastal and Shelf Science*. 53:865:876.
25. McKendry, J.E., Milsom, W.K., Perry, S.F. 2001. Branchial CO₂ receptors and cardiorespiratory adjustments during hypercarbia in Pacific spiny dogfish (*Squalus acanthias*). *Journal of Experimental Biology*. 204:1519-1527.
26. Montpetit, C.J., McKendry, J.E., Perry, S.F. 2001. The effects of C-type natriuretic peptide on catecholamine release in the pacific spiny dogfish (*Squalus acanthias*) *General and comparative endocrinology*. 123:210-221.
27. Nishizaki, M.T., Ackerman, J.D. 2001. Gimme shelter: factors influencing juvenile sheltering in *Strongylocentrotus franciscanus* pp 515-520 In: Mike Barker (ed.) *Echinoderms 2000*. Swets & Zeitlinger, Lisse.
28. Ong, S., Penney, B.K. 2001. Non-polar components of prey sponge extract attract *Rostanga pulchra* (Nudibranchia: Doridacea) *Veliger* 44:99-100.
29. Perry, S.F., McHendry, J.E. 2001. The relative roles of external and internal CO₂ versus H⁺ in eliciting the cardiorespiratory response of *Salmo salar* and *Squalus acanthias* to hypercarbia. *Journal of Experimental Biology* 204:3963-3971.
30. Perry, S.F., Montpetit, C.J., McKendry, J.E., Desforges, P.R., Gilmour, K.M., Wood, C.M., Olson, K.R. 2001. The effects of endothelin-1 on the cardiorespiratory physiology of the freshwater trout (*Oncorhynchus mykiss*) and the marine dogfish (*Squalus acanthias*) *J.Comp.Physiol.B.*, 171, 623-634.
31. Ritzel, M.W.L., Ng, A.M.L., Yao, S.Y.M., Graham, K., Loewen, S.K., Smith, K.M., Ritzel, R.G., Mowles, D.A., Carpenter, P., Chen, X.Z., Karpinski, E., Hyde, R.J., Baldwin, S.A., Cass, C.E., Young, J.D. 2001. Molecular identification and characterization of novel human and mouse concentrative Na⁺-nucleoside cotransporter proteins (hCNT1 and hCNT2) broadly

selective for purine and pyrimidine nucleosides (System "cib"). *Journal of Biological Chemistry*. 276:2914- 2927.

32. Ritzel, M.W.L., Ng, A.M.L., Yao, S.Y.M., Graham, K., Loewen, S.K., Smith, K.M., Hyde, R.J., Karpinski, E., Cass, C.E., Baldwin, S.A., Young, J.D. 2001. Recent molecular advances in studies of the concentrative Na⁺-dependent nucleoside transporter (CNT) family: identification and characterization of novel human and mouse proteins (hCNT3 and mCNT3) broadly selective for purine and pyrimidine nucleosides (System cib). *Molecular membrane biology* 18:65-72.
33. Rochette, R., Tétreault, F., Himmelman, J. H. 2001. Aggregation of whelks, *Buccinum undatum*, near feeding predators: the role of reproductive requirements. *Animal Behaviour*. 61: 31-41.
34. Scrosati, R. 2001. Interannual variation of the abundance of *Mazzaella cornucopiae* (Rhodophyta, Gigartinales) from Pacific Canada in relation to changes in abiotic variables. *Journal of Applied Phycology* 13: 457- 460.
35. Shaughnessy, F.J.; DeWreede, R.E. 2001. Size, survival and the potential for reproduction in transplants of *Mazzaella splendens* and *M. linearis* (Rhodophyta) *Marine Ecology Progress Series*. 222:109-118.
36. Stevens, C.L.; Hurd, C.L.; Smith, M.J. 2001. Water motion relative to subtidal kelp fronds. *Limnology and oceanography*. 46:668-678.
37. Sussman, A.V.; DeWreede, R.E. 2001. Life history of *Acrosiphonia* (Codiolales, Chlorophyta) in southwestern British Columbia, Canada. *American Journal of Botany*. 88: 1535-1544.
38. Tai, V.; Lindstrom, S.C.; Saunders, G.W. 2001. Phylogeny of the Dumontiaceae (Gigartinales, Rhodophyta) and associated families based on small sub-unit rDNA and internal transcribed spacer sequence data. *Journal of Phycology* 37:184-196.
39. Taylor, G.M. 2001. The evolution of armament strength: evidence for a constraint on the biting performance of claws of durophagous decapods. *Evolution* 55:550-560.
40. Walsh, P.J.; Wang, Y.; Campbell, C.E.; DeBoeck, G.; Wood, C.M. 2001. Patterns of nitrogenous waste excretion and gill urea transporter mRNA expression in several species of marine fish. *Marine Biology* 139: 839-844.
41. Webb, N.A.; Shaw, J.R.; Morgan, I.J.; Hogstrand, C.; Wood, C.M. 2001. Acute and chronic physiological effects of silver exposure in three marine teleosts. *Aquatic Toxicology*. 54: 161-78

42. Zimmer, M.; Danko, J.P.; Pennings, S.C.; Danford, A.R.; Zeigler, A.; Uglow, R.F.; Carefoot, T.H. 2001. Hepatopancreatic endosymbiosis in coastal isopods (Crustacea: Isopoda), and their contribution to digestion. *Marine Biology* 138:955-963.

NONREFEREED PUBLICATIONS AND REPORTS

1. Department of Fisheries and Oceans. 2001. 2000 Pacific Region State of the Ocean. DFO Ocean Status Report 2001/01. 45p.
2. Simpson, K.; Dobson, D.; Irvine, J.; Holtby, B.; Tanasichuk, R.W. 2001. Forecast for southern British Columbia coho salmon in 2001. DFO Can. Stock Assess. Res. Doc. 2001/107 48p.

DISSERTATIONS AND THESIS

1. Burns, K.C. 2001. Community ecology of an avian seed dispersal mutualism. Ph.D. Dissertation, University of California, Los Angeles.
2. Garza, C. 2001. Variable Prey Settlement and the Impact of Predators in Rocky Intertidal Communities. Department of Ecology, Evolution and Marine Biology University of California, Santa Barbara, Ph.D. Theses.
3. Grey, M. 2001. Predatory-prey relationships of naticid gastropods and their bivalve prey. M.Sc. Theses, University of Guelph, Guelph, Ont.