

Dr Natalie Moltschaniwskyj Publications

1. **Moltschaniwskyj**, N.A. & D.J. Johnston. (2006) Evidence that lipid is digested, but not stored, by the dumpling squid *Euprymna tasmanica*. *Marine Biology* 149: 565-572
2. Sinn, D.L., L.A. Apiolaza, **N.A. Moltschaniwskyj**. (2006) Heritability and fitness-related consequences of squid personality traits. *Journal of Evolutionary Biology* 19: 1437-1447
3. Pecl GT & **Moltschaniwskyj** NA. (2006) Life history of short-lived squid: resource allocation as a function of size, growth, maturation, and hatching season. *ICES Journal of Marine Science* 63: 995-1004
4. **Moltschaniwskyj**, N.A. (2005). Edible shellfish: biology and science. Edible shellfish: biology and science. In: *Handbook of Food Science, Technology and Engineering*, Volume 1, pp 36.1 – 36.13. Edited by Y.H. Yui. Marcel Dekker, New York.
5. Johnston, D., **Moltschaniwskyj**, N., & Wells, J. (2005). Development of the radula and digestive system of juvenile blacklip abalone (*Haliotis rubra*): potential factors responsible for variable weaning success on artificial diets. *Aquaculture* 250: 341-355
6. Sinn, D & **N.A. Moltschaniwskyj**. (2005). Personality traits in the southern dumpling squid (*Euprymna tasmanica*): context-specific differences and potential biological correlates. *Journal of Comparative Psychology* 119: 99–110
7. Swift, K., Johnston, D.J., **Moltschaniwskyj**, N. (2005). The digestive gland of the Southern Dumpling Squid (*Euprymna tasmanica*): structure and function. *Journal of Experimental Marine Biology and Ecology* 315: 177–186
8. **Moltschaniwskyj** N.A. & M.A. Steer. (2004) Spatial and seasonal variation in reproductive characteristics and spawning of southern calamary: spreading the mortality risk. *ICES Journal of Marine Science* 61:924-927
9. Macleod, C., C. Crawford, & **N.A. Moltschaniwskyj**. (2004). Assessment of long term change in sediment condition after organic enrichment: defining recovery. *Marine Pollution Bulletin* 49: 79-88
10. Steer M.A., N.A. **Moltschaniwskyj**, D.S. Nichols, M. Miller. (2004). The role of temperature and maternal ration: using *Euprymna tasmanica* as a model. *Journal of Experimental Marine Biology and Ecology* 307: 73-89
11. Ho, J.D., N.A. **Moltschaniwskyj**, C.G. Carter. (2004). Understanding variability in somatic and reproductive growth in the Southern calamary *Sepioteuthis australis*: a hierarchical approach. *Marine and Freshwater Research* 55: 423-428
12. Pecl G.T., N.A. **Moltschaniwskyj**, S.R. Tracey & A.R. Jordan (2004). Inter-annual plasticity of squid life-history and population structure: Ecological and management implications. *Oecologia* 139: 515-524
13. **Moltschaniwskyj**, N.A. (2004). Understanding the processes of growth in cephalopods. *Marine and Freshwater Research* 55: 379-386
14. Suplicy, F.M., J.F. Schmitt, N.A. **Moltschaniwskyj**, J.F. Ferreira, (2003). Modelling of filter-feeding behaviour in the brown mussel *Perna perna* (L.), exposed to natural variations of seston availability in Santa Catarina, Brazil. *Journal of Shellfish Research* 22: 125-134
15. Steer, M.A. N.A. **Moltschaniwskyj** & A.R. Jordan (2003). Embryonic development of the southern calamary *Sepioteuthis australis* within the constraints of an aggregated egg mass. *Marine and Freshwater Research* 54: 217-226

16. **Moltchaniwskyj**, N.A & Pecl, G.T. (2003). Small-scale spatial and temporal patterns of egg production by the temperate loliginid squid *Sepioteuthis australis*. *Marine Biology* 142: 509-516
17. **Moltchaniwskyj**, N.A., Pecl G.T. & Lyle J. (2002). An assessment of the use of short-term closures to protect spawning southern calamary aggregation from fishing pressure in Tasmania, Australia. *Bulletin of Marine Science* 71:501-514
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19. Gowland, F.C., **Moltchaniwskyj**, N.A & Steer, M.A. (2002). Description and quantification of developmental abnormalities in a natural *Sepioteuthis australis* spawning population (Mollusca: Cephalopoda). *Marine Ecology Progress Series* 243:133-141
20. Jackson, G.D. & N.A. **Moltchaniwskyj**. (2002). Spatial and temporal variation in growth rates and maturity in the Indo-Pacific squid *Sepioteuthis lessoniana* (Cephalopoda: Loliginidae). *Marine Biology* 140:747-754
21. Hughes, T.P., Baird, A.H., Dinsdale, E.A., Harriott, V.J., **Moltchaniwskyj**, N., Pratchett, M.S., Tanner, J.E. & B. Willis. (2002). Latitudinal patterns in larval recruitment: Detecting regional variation using meta-analysis and large-scale sampling. *Ecology* 83: 436-451.
22. Jackson, G.D. & N.A. **Moltchaniwskyj**. (2001). Temporal variation in growth rates and reproductive parameters in the near-shore tropical squid *Loliolus noctiluca*: is cooler better? *Marine Ecology Progress Series* 218: 167-177
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26. Semmens, J.M. & N.A. **Moltchaniwskyj** (2000). An examination of variable growth rates in the tropical squid *Sepioteuthis lessoniana*: a whole animal and reductionist approach. *Marine Ecology Progress Series* 193:135-141
27. **Moltchaniwskyj**, N.A. & Jackson, G.D. (2000). Growth and tissue composition as a function of nutritional history in juvenile cephalopods. *Journal of Experimental Marine Biology and Ecology* 253: 229-241
28. Steer, M.A, G.T. Pecl, **N.A. Moltchaniwskyj** (2003) Are bigger calamary *Sepioteuthis australis* hatchlings more likely to survive? A study based on statolith dimensions. *Marine Ecology Progress Series* 261:175-182
29. **Moltchaniwskyj**, N.A. & J.M Semmens (2000). Limited use of stored energy reserves for reproduction by the tropical loliginid squid *Photololigo* sp. *Journal of Zoology* 251: 307-313
30. Thomas, R. & N.A. **Moltchaniwskyj** (1999). Ontogenetic changes in size and shape of statoliths: implications for age and growth of the short-lived tropical

- squid *Sepioteuthis lessoniana*. (Cephalopoda: Loliginidae). Fishery Bulletin 97(3): 636-645
31. Pecl, G. & N.A. **Moltchanivskyj** (1999). Somatic growth processes: how are they affected by captivity? Proc Royal Society London B 266:1-7
 32. Martinez, P. & N.A. **Moltchanivskyj** (1999). Description of growth in a tropical cuttlefish using muscle tissue: asymptotic or non-asymptotic growth? Journal of the Marine Biological Association UK. 79:317-321
 33. Jackson, G.D. & N.A. **Moltchanivskyj** (1999). Analysis of precision in squid statolith derived age estimates of the tropical squid *Photololigo* (Cephalopoda: Loliginidae). ICES Journal of Marine Science 56:221-227
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 36. Pecl, G. & N.A. **Moltchanivskyj** (1997). Changes in muscle structure associated with somatic growth in *Idiosepius pygmaeus*, a small tropical cephalopod. Journal of Zoology 242: 751-764
 37. **Moltchanivskyj**, N.A. (1997). Changes in mantle structure associated with growth and reproduction in the tropical squid *Photololigo* sp. (Cephalopoda: Loliginidae). Journal of Molluscan Studies 63: 290-293
 38. Semmens, J.M., N.A. **Moltchanivskyj** & C.G. Alexander (1995). The effect of feeding on the structure of the digestive gland of the tropical sepioid *Idiosepius pygmaeus*. Journal of the Marine Biological Association of UK 75: 885-897
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