

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

1. Abidli, S., Lahbib, Y., and El Menif, N. T. 2009a. Imposex and genital tract malformations in *Hexaplex trunculus* and *Bolinus brandaris* collected in the Gulf of Tunis. *B Mar Sci.* **85**: 11 - 25.
2. Abidli, S., Lahbib, Y., and El Menif, N. T. 2009b. Effects of TBT on the imposex development, reproduction and mortality in *Hexaplex trunculus* (Gastropoda: Muricidae). *J Mar Biol Assoc UK.* **89**: 139 - 146.
3. Alvarez, M. M. S., and Ellis, D. V. 1990. Widespread neogastropod imposex in the northeast Pacific - Implications for TBT contamination surveys. *Mar Pollut Bull.* **21**: 244 - 247.
4. Alzieu, C. 2000. Impact of tributyltin on marine invertebrates. *Ecotoxicol.* **9**: 71 - 76.
5. An, W., and Hu, J. Y. 2006. Effects of endocrine disrupting chemicals on China's rivers and coastal waters. *Front Ecol Environ.* **4**: 378 - 386.
6. Andersen, L. E. 2004a. Imposex: A biological effect of TBT contamination in Port Curtis, Queensland. *Aust J Ecotoxicol.* **10**: 105 - 113.
7. Andersen, L. 2004b. Imposex in the City - A survey to monitor the effects of TBT contamination in Port Curtis, Queensland. Cooperative Research Centre for Coastal Zone Estuary and Waterway Management. pp. 25 pp.
8. Arconada, B., and Ramos, M. A. 2002. *Spathogyna*, a new genus for *Valvata* (? *Tropidina*) *fezi* Altimira, 1960 from eastern Spain: Another case of pseudohermaphroditism in the Hydrobiidae (Gastropoda). *J Mollus Stud.* **68**: 319 - 327.
9. Axiak, V., Vella, A. J., Micallef, D., Chircop, P., and Mintoff, B. 1995. Imposex in *Hexaplex trunculus* (Gastropoda, Muricidae) - First results from biomonitoring of tributyltin contamination in the Mediterranean. *Mar Biol.* **121**: 685 - 691.
10. Axiak, V., Vella, A. J., Agius, D., Bonnici, P., Cassar, G., Cassone, R., Chircop, P., Micallef, D., Mintoff, B., and Sammut, M. 2000. Evaluation of environmental levels and biological impact of TBT in Malta (central Mediterranean). *Sci Total Environ.* **258**: 89 - 97.
11. Axiak, V., Micallef, D., Muscat, J., Vella, A., and Mintoff, B. 2003. Imposex as a biomonitoring tool for marine pollution by tributyltin: some further observations. *Environ Int.* **28**: 743 - 749.
12. Bailey, S. K., and Davies, I. M. 1987. Tributyltin contamination in the Firth of Forth. *P Roy Soc Edinb B.* **93**: 561 - 562.
13. Bailey, S. K., and Davies, I. M. 1988a. Tributyltin contamination around an oil terminal in Sullom Voe (Shetland). *Environ Pollut.* **55**: 161 - 172.
14. Bailey, S. K., and Davies, I. M. 1988b. Tributyltin contamination in the Firth-of-Forth (1975-87). *Sci Total Environ.* **76**: 185 - 192.
15. Bailey, S. K., and Davies, I. M. 1989. The Effects of tributyltin on dogwhelks (*Nucella lapillus*) from Scottish coastal waters. *J Mar Biol Assoc UK.* **69**: 335 - 354.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

16. Bailey, S. K., and Davies, I. M. 1991. Continuing impact of TBT, previously used in mariculture, on dogwhelk (*Nucella lapillus* L.) populations in a Scottish sea loch. *Mar Environ Res.* **32**: 187 - 199.
17. Bailey, S. K., Davies, I. M., and Harding, M. J. C. 1995. Tributyltin contamination and its impact on *Nucella lapillus* populations. *P Roy Soc Edinb B.* **103**: 113 - 126.
18. Bard, S., and Coray, C. 2007. Impacts of Halifax Harbour marine pollution on immunomodulation in blue mussels (*Mytilus edulis* and *Mytilus trossulus*), endocrine disruption of key predator populations (*Nucella lapillus*), and resultant effect on intertidal community structure. *In* Proceedings of the 34th Annual Toxicity Workshop (September 30th to October 3rd, 2007), Halifax, Nova Scotia, pp 30.
19. Barreiro, R., Quintela, M., and Ruiz, J. M. 1999. Aphally and imposex in *Nucella lapillus* from Galicia (NW Spain): incidence, geographical distribution and consequences for the biomonitoring of TBT contamination. *Mar Ecol Prog Ser.* **185**: 229 - 238.
20. Barreiro, R., Gonzalez, R., Quintela, M., and Ruiz, J. M. 2001. Imposex, organotin bioaccumulation and sterility of female *Nassarius reticulatus* in polluted areas of NW Spain. *Mar Ecol Prog Ser.* **218**: 203 - 212.
21. Barreiro, R., Quintela, M., and Ruiz, J. M. 2004. TBT e imposex en Galicia: los efectos de un disruptor endocrino en poblaciones de gasteropodos marinos. *Ecosistemas.* **13**: 13 - 29.
22. Barroso, C. M., and Moreira, M. H. 1998. Reproductive cycle of *Nassarius reticulatus* in the Ria de Aveiro, Portugal: Implications for imposex studies. *J Mar Biol Assoc UK.* **78**: 1233 - 1246.
23. Barroso, C. M., and Moreira, M. H. 2002. Spatial and temporal changes of TBT pollution along the Portuguese coast: inefficacy of the EEC directive 89/677. *Mar Pollut Bull.* **44**: 480 - 486.
24. Barroso, C. M., Moreira, M. H., and Gibbs, P. E. 2000. Comparison of imposex and intersex development in four prosobranch species for TBT monitoring of a southern European estuarine system (Ria de Aveiro, NW Portugal). *Mar Ecol Prog Ser.* **201**: 221 - 232.
25. Barroso, C. M., Reis-Henriques, M. A., Ferreira, M. S., and Moreira, M. H. 2002a. The effectiveness of some compounds derived from antifouling paints in promoting imposex in *Nassarius reticulatus*. *J Mar Biol Assoc UK.* **82**: 249 - 255.
26. Barroso, C. M., Moreira, M. H., and Bebianno, M. J. 2002b. Imposex, female sterility and organotin contamination of the prosobranch *Nassarius reticulatus* from the Portuguese coast. *Mar Ecol Prog Ser.* **230**: 127 - 135.
27. Barroso, C. M., Reis-Henriques, M. A., Ferreira, M., Gibbs, P. E., and Moreira, M. H. 2005a. Organotin contamination, imposex and androgen/oestrogen ratios in natural populations of *Nassarius reticulatus* along a ship density gradient. *Appl Organomet Chem.* **19**: 1141 - 1148.
28. Barroso, C. M., Moreira, M. H., and Richardson, C. A. 2005b. Age and growth of *Nassarius reticulatus* in the Ria de Aveiro, north-west Portugal. *J Mar Biol Assoc UK.* **85**: 151 - 156.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

29. Bauer, B., Fioroni, P., Ide, I., Liebe, S., Oehlmann, J., Stroben, E., and Watermann, B. 1995. TBT effects on the female genital system of *Littorina littorea* - a possible indicator of tributyltin pollution. *Hydrobiol.* **309**: 15 - 27.
30. Bauer, B., Fioroni, P., Schulte-Oehlmann, U., Oehlmann, J., and Kalbfus, W. 1997. The use of *Littorina littorea* for tributyltin (TBT) effect monitoring results from the German TBT survey 1994/1995 and laboratory experiments. *Environ Pollut.* **96**: 299 - 309.
31. Bech, M. 1999. Increasing levels of tributyltin-induced imposex in Muricid gastropods at Phuket Island, Thailand. *Appl Organomet Chem.* **13**: 799 - 804.
32. Bech, M. 2002a. Imposex and tributyltin contamination as a consequence of the establishment of a marina, and increasing yachting activities at Phuket Island, Thailand. *Environ Pollut.* **117**: 421 - 429.
33. Bech, M. 2002b. Imposex and tributyltin contamination as a consequence of the establishment of a marina, and increasing yachting activities at Phuket Island, Thailand. *J Plan Lit.* **17**: 262 - 331.
34. Bech, M. 2002c. A survey of imposex in Muricids from 1996 to 2000 and identification of optimal indicators of tributyltin contamination along the east coast of Phuket Island, Thailand. *Mar Pollut Bull.* **44**: 887 - 896.
35. Bech, M., Strand, J., and Jacobsen, J. A. 2002. Development of imposex and accumulation of butyltin in the tropical Muricid *Thais distinguenda* transplanted to a TBT contaminated site. *Environ Pollut.* **119**: 253 - 260.
36. Bettin, C., Oehlmann, J., and Stroben, E. 1996. TBT-induced imposex in marine neogastropods is mediated by an increasing androgen level. *Helgolander Meeresun.* **50**: 299 - 317.
37. Bigatti, G., and Penchaszadeh, P. 2005. Imposex in *Odontocymbiola magellanica* (Caenogastropoda: Volutidae) in Patagonia. *Comunicaciones de la Sociedad Malacológica del Uruguay.* **9**: 371 - 375.
38. Bigatti, G., and Carranza, A. 2007. Phenotypic variability associated with the occurrence of imposex in *Odontocymbiola magellanica* from Golfo Nuevo, Patagonia. *J Mar Biol Assoc UK.* **87**: 755 - 759.
39. Bigatti, G., Primost, M. A., Cledón, M., Averbuj, A., Theobald, N., Gerwinski, W., Arntz, W., Morriconi, E., and Penchaszadeh, P. E. 2009. Biomonitoring of TBT contamination and imposex incidence along 4700 km of Argentinean shoreline (SW Atlantic: From 38S to 54S). *Mar Pollut Bull.* **58**: 695 - 701.
40. Birchenough, A. C., Barnes, N., Evans, S. M., Hinz, H., Kronke, I., and Moss, C. 2002a. A review and assessment of tributyltin contamination in the North Sea, based on surveys of butyltin tissue burdens and imposex/intersex in four species of neogastropods. *Mar Pollut Bull.* **44**: 534 - 543.
41. Birchenough, A. C., Evans, S. M., Moss, C., and Welch, R. 2002b. Re-colonisation and recovery of populations of dogwhelks *Nucella lapillus* (L.) on shores formerly subject to severe TBT contamination. *Mar Pollut Bull.* **44**: 652 - 659.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

42. Blaber, S. J. M. 1970. The occurrence of a penis-like outgrowth behind the right tentacle in spent females of *Nucella lapillus* (L.). Proc Malacol Soc Lond. **39**: 231 - 233.
43. Blackmore, G. 2000. Imposex in *Thais clavigera* (Neogastropoda) as an indicator of TBT (tributyltin) bioavailability in coastal waters of Hong Kong. J Mollus Stud. **66**: 1 - 8.
44. Boutilier, K., Rawlings, T. A., and Hatcher, B. G. 2007. Marine gastropod biomonitors: Investigating TBT contamination of Sydney Harbour and surrounding regions. In Atlantic Canada Coastal and Estuarine Science Society. ACCESS 2007, Cape Breton University.
45. Braga, A. R. C., de Castro, I. B., and Rocha-Barreira, C. A. 2006. Compostos organoestênicos: Um risco potencial para contaminação do pescado marinho. Boletim Tecnico - Cientifico do Cepene. **14**: 103 - 107.
46. Bray, S. 2005. The long-term recovery of the bioindicator species *Nucella lapillus* from tributyltin pollution. PhD. Thesis, *University of Southampton*, United Kingdom.
47. Brevik, E. M., Følsvik, N., Berge, J. A., and Walday, M. 1998. Quantification and effects of organotin compounds in environmental samples from the Norwegian coast. In ACS Symp Ser. **215**: 586
48. Brick, M., and Deutsch, U. 1993. Ultrastructural investigations of the penis epithelia cells of three neogastropods, collected from TBT (tributyltin)-polluted areas. Aquat Toxicol. **27**: 113 - 132.
49. Brick, M., and Bolte, M. 1994. Cytology of the outer penis epithelium of *Buccinum undatum* (L.) from the Arctic region - An observation of the imposex phenomenon. Helgolander Meeresun. **48**: 123 - 131.
50. Brick, M., Deutsch, U., and Fioroni, P. 1996. Cellular effects of tributyltin (TBT) on the penis epithelium cells of prosobranchs (*Hinia reticulata* and *Ocenibria aciculata*). Helgolander Meeresun. **50**: 319 - 325.
51. Bright, D., Cullon, D., and Ikonomou, M. 2001. Evidence of endocrine disruption in neogastropods due to TBT: 10 years after the 1989 regulation. In SETAC - 22nd Meeting (November 11 – 15, 2001), Baltimore, Maryland.
52. Bright, D. A., and Ellis, D. V. 1988. Imposex in Pacific coast neogastropods related to tributyltin contamination. J Shellfish Res. **8**: 318 - 319.
53. Bright, D. A., and Ellis, D. V. 1990. A comparative survey of imposex in northeast Pacific neogastropods (Prosobranchia) related to tributyltin contamination, and choice of a suitable bioindicator. Can J Zool. **68**: 1915 - 1924.
54. Bryan, G., Gibbs, P., Hummerstone, L., and Burt, G. 1986. The decline of the gastropod *Nucella lapillus* around south-west England: evidence for the effect of tributyltin from antifouling paints. J Mar Biol Assoc UK. **66**: 611 - 640.
55. Bryan, G., Gibbs, P., Burt, G., and Hummerstone, L. 1987. The effects of tributyltin (TBT) accumulation on adult dogwhelks, *Nucella lapillus*: long-term field and laboratory experiments. J Mar Biol Assoc UK. **67**: 525 - 544.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

56. Bryan, G., Gibbs, P., and Burt, G. 1988. A comparison of the effectiveness of tri-n-butyltin chloride and five other organotin compounds in promoting the development of imposex in the dog-whelk, *Nucella lapillus*. J Mar Biol Assoc UK. **68**: 733 - 744.
57. Bryan, G. W., and Gibbs, P. E. 1991. Impact of low concentrations of tributyltin (TBT) on marine organisms: A Review. In Metal Ecotoxicology: Concepts and Applications (Edited by M.C. Newman and A.W. McIntosh). Lewis Publishers, Ann Arbour. pp. 323-361.
58. Bryan, G. W., Gibbs, P. E., Hummerstone, L. G., and Burt, G. R. 1987. Copper, zinc, and organotin as long-term factors governing the distribution of organisms in the Fal Estuary in southwest England. Estuaries. **10**: 208 - 219.
59. Bryan, G.W., Gibbs, P. E., Hummerstone, L. G., and Burt, G. R. 1989a. Uptake and transformation of C-14-labelled tributyltin chloride by the dog-whelk, *Nucella lapillus* - Importance of absorption from the diet. Mar Environ Res. **28**: 241 - 245.
60. Bryan, G. W., Gibbs, P. E., Huggett, R. J., Curtis, L. A., Bailey, D. S., and Dauer, D. M. 1989b. Effects of tributyltin pollution on the mud snail, *Ilyanassa obsoleta*, from the York River and Sarah Creek, Chesapeake Bay. Mar Pollut Bull. **20**: 458 - 462.
61. Bryan, G. W., Bright, D. A., Hummerstone, L. G., and Burt, G. R. 1993a. Uptake, tissue distribution and metabolism of C-14 labelled tributyltin (TBT) in the dogwhelk, *Nucella lapillus*. J Mar Biol Assoc UK. **73**: 889 - 912.
62. Bryan, G. W., Burt, G. R., Gibbs, P. E., and Pascoe, P. L. 1993b. *Nassarius reticulatus* (Nassariidae, Gastropoda) as an indicator of tributyltin pollution before and after TBT restrictions. J Mar Biol Assoc UK. **73**: 913 - 929.
63. Cadee, G. C., Boon, J. P., Fischer, C. V., Mensink, B. P., and TenHallers-Tjabbes, C. C. 1995. Why the whelk (*Buccinum undatum*) has become extinct in the Dutch Wadden Sea. Neth J Soc Sci. **34**: 337 - 339.
64. Caetano, C. H. S., and Absalão, R. S. 2002. Imposex in *Olivancillaria vesica vesica* (Gmelin) (Gastropoda, Olividae) from a southeastern Brazilian sandy beach. Rev Bras Zool. **19**: 215 - 218.
65. Cajaraville, M. P., Bebianno, M. J., Blasco, J., Porte, C., Sarasquete, C., and Viarengo, A. 2000. The use of biomarkers to assess the impact of pollution in coastal environments of the Iberian Peninsula: A practical approach. Sci Total Environ. **247**: 295 - 311.
66. Camillo, E., Quadros, J., de Castro, I. B., and Fernandez, M. A. 2004. Imposex in *Thais rustica* (Mollusca: Neogastropoda) (Lamarck, 1822) as an indicator of organotin compounds pollution at Maceio Coast (northeastern Brazil). Braz J Oceanogr. **52**: 101 - 105.
67. Cao, D. D., Jiang, G. B., Zhou, Q. F., and Yang, R. Q. 2009. Organotin pollution in China: An overview of the current state and potential health risk. J Environ Manage. **90**: S16 - S24.
68. Cardoso, R. S., Caetano, C. H. S., and Cabrini, T. M. B. 2009. Biphallia in imposexed females of marine gastropods: new record for *Nassarius vibex* from Brazil. Braz J Biol. **69**: 223 - 224.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

69. Cardwell, R. D., and Tear, L. 1998. Uncertainties in tributyltin-imposex dose-response relationships. *Abstr Am Chem Soc.* **215**: U587 - U587.
70. Casey, J. D., De Grave, S., and Burnell, G. M. 1998. Intersex and *Littorina littorea* in Cork Harbour: Results of a medium-term monitoring programme. *Hydrobiol.* **378**: 193 - 197.
71. Castagna, M., and Kraeuter, J. N. 1994. Age, growth-rate, sexual dimorphism and fecundity of knobbed whelk *Busycon carica* (Gmelin, 1791) in a western mid-Atlantic lagoon system, Virginia. *J Shellfish Res.* **13**: 581 - 585.
72. Castro, L. F. C., Lima, D., Machado, A., Melo, C., Hiromori, Y., Nishikawa, J., Nakanishi, T., Reis-Henriques, M.A., and Santos, M.M. 2007. Imposex induction is mediated through the Retinoid X Receptor signaling pathway in the neogastropod *Nucella lapillus*. *Aquat Toxicol.* **85**: 57 - 66.
73. Chan, K. M., Cheung, S. G., Cai, Z. W., and Qiu, J. W. 2008a. Sensitivity of different biological responses to accumulation and depuration of butyltins in the neogastropod *Thais clavigera*: implications for biomonitoring. *Ecotoxicol.* **17**: 860 - 868.
74. Chan, K. M., Leung, K. M. Y., Cheung, K. C., Wong, M. H., and Qiu, J. W. 2008b. Seasonal changes in imposex and tissue burden of butyltin compounds in *Thais clavigera* populations along the coastal area of Mirs Bay, China. *Mar Pollut Bull.* **57**: 645 - 651.
75. Chatzinikolaou, E., and Richardson, C. A. 2007. Evaluating growth and age of netted whelk *Nassarius reticulatus* (Gastropoda: Nassariidae) using statolith growth rings. *Mar Ecol Prog Ser.* **342**: 163 - 176.
76. Cheng, C. Y., and Liu, L. L. 2004. Gametogenesis in the imposex-affected oyster drills, *Thais clavigera* and *Thais rufotincta*. *J Fish Soc Taiwan.* **31**: 55 - 65.
77. Chiavarini, S., Massanisso, P., Nicolai, P., Nobili, C., and Morabito, R. 2003. Butyltins concentration levels and imposex occurrence in snails from the Sicilian coasts (Italy). *Chemosphere.* **50**: 311 - 319.
78. Cho, H. S., Seol, S. W., and Horiguchi, T. 2006. Less recovery from imposex and organotin pollution in the rock shell, *Thais clavigera* in Korea. *Mar Environ Res.* **62**: S224 - S225.
79. Choi, M., Moon, H. B., Yu, J., Eom, J. Y., and Choi, H. G. 2009. Butyltin contamination in industrialized bays associated with intensive marine activities in Korea. *Arch Environ Con Tox.* **57**: 77 - 85.
80. Cledón, M., Theobald, N., Gerwinski, W., and Penchaszadeh, P. E. 2006. Imposex and organotin compounds in marine gastropods and sediments from the Mar del Plata coast, Argentina. *J Mar Biol Assoc UK.* **86**: 751 - 755.
81. Cob, Z. C., Arshad, A., Idris, M. H., Bujang, J. S., and Ghaffar, M. A. 2008. Sexual polymorphism in a population of *Strombus canarium* Linnaeus, 1758 (Mollusca: Gastropoda) at Merambong Shoal, Malaysia. *Zool Stud.* **47**: 318 - 325.
82. Colson, I., and Hughes, R. N. 2004. Rapid recovery of genetic diversity of dogwhelk (*Nucella lapillus* L.) populations after local extinction and recolonization contradicts predictions from life-history characteristics. *Mol Ecol.* **13**: 2223 - 2233.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

83. Coray, C. 2007. Assessing the health of Halifax Harbour's intertidal ecosystem: Impacts of marine pollution on community structure, reproductive health of key predators populations (*Nucella lapillus*), and immunomodulation in blue mussels (*Mytilus edulis* and *Mytilus trossulus*). MSc. Thesis, *Dalhousie University*, Nova Scotia.
84. Coray, C., and Bard, C. 2007. Persistence of tributyltin-induced imposex in dogwhelks (*Nucella lapillus*) and intersex in periwinkles (*Littorina littorea*) in Atlantic Canada. *Water Qual Res.* **42**: 111 - 122.
85. Coray, C., and Bard, S. M. 2008. Impacts of marine pollution on immunomodulation in blue mussels (*Mytilus edulis* and *Mytilus trossulus*), endocrine disruption of key predator populations (*Nucella lapillus*), and resultant effects on intertidal community structure. *Mar Environ Res.* **66**: 166 - 167.
86. Couceiro, L., Quintela, M., Ruiz, J. M., and Barreiro, R. 2006. A new case of endocrine disruption: Imposex in the invasive gastropod *Cyclope neritea* L. *Mar Environ Res.* **62**: S237 - S238.
87. Couceiro, L., Diaz, J., Albaina, N., Barreiro, R., Irabien, J. A., and Ruiz, J. M. 2009. Imposex and gender-independent butyltin accumulation in the gastropod *Nassarius reticulatus* from the Cantabrian coast (N Atlantic Spain). *Chemosphere.* **76**: 424 - 427.
88. Coutinho, R. 2001. Consideration and adoption of the international convention on the control of harmful anti-fouling systems - Annex 1. *In* International Maritime Organization International Conference on the Control of Harmful Antifouling Systems for Ships AFS/CONF/INF.2.
89. Covert, T. J. 1997. Masculinization of dogwhelks (*Nucella lapillus*) and periwinkles (*Littorina littorea*) in Halifax Harbour: Monitoring of tributyltin. BSc. Honours Thesis, *St. Mary's University*, Nova Scotia.
90. Crothers, J. H. 1989. Has the population decline due to TBT pollution affected shell-shape variation in the dogwhelk, *Nucella lapillus* (L). *J Mollus Stud.* **55**: 461 - 467.
91. Crothers, J. H. 2003. Further observations on a population of dog-whelks, *Nucella lapillus* (Gastropoda) recolonizing a site following amelioration of tributyltin (TBT) pollution. *J Mar Biol Assoc UK.* **83**: 1023 - 1027.
92. Cullon, D. L. 2001. Evidence of endocrine disruption in neogastropods by organotins: 10 years after the 1989 regulations. MSc. Thesis, *Royal Roads University*, British Columbia.
93. Curtis, L. A. 1994. A decade-long perspective on a bioindicator of pollution - Imposex in *Ilyanassa obsoleta* on Cape Henlopen, Delaware Bay. *Mar Environ Res.* **38**: 291 - 302.
94. Curtis, L. A., and Barse, A. M. 1990. Sexual anomalies in the estuarion snail *Ilyanassa obsoleta* - Imposex in females and associated phenomena in males. *Oecologia.* **84**: 371 - 375.
95. Curtis, L. A., and Kinley, J. L. 1998. Imposex in *Ilyanassa obsoleta* still common in a Delaware estuary. *Mar Pollut Bull.* **36**: 97 - 101.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

96. da Costa, M. B., Fernandez, M. A., Barbiero, D. C., de Melo, F. T. V., and Ferreira, B. S. 2008. First record of imposex in *Thais deltoidea* (Lamarck, 1822) (Mollusca, Gastropoda, Thaididae) in Vitória, Es, Brazil. *Braz J Oceanogr.* **56**: 145 - 148.
97. Davies, I. M. 2000. Kinetics of the development of imposex in transplanted adult dogwhelks, *Nucella lapillus*. *Environ Pollut.* **107**: 445 - 449.
98. Davies, I. M., and Bailey, S. K. 1991. The impact of tributyltin from large vessels on dogwhelk (*Nucella lapillus*) populations around Scottish oil ports. *Mar Environ Res.* **32**: 201 - 211.
99. Davies, I. M., and Minchin, A. 2002. Quality assurance of imposex and intersex measurements in marine snails. *J Environ Monitor.* **4**: 788 - 790.
100. Davies, I. M., Bailey, S. K., and Moore, D. C. 1987a. Tributyltin in Scottish sea lochs, as indicated by degree of imposex in the dogwhelk, *Nucella lapillus* (L). *Mar Pollut Bull.* **18**: 400 - 404.
101. Davies, I. M., Drinkwater, J., McKie, J. C., and Balls, P. 1987b. Effects of the use of tributyltin antifoulants in mariculture. *In* Proceedings of the Oceans '87 – Organotin Symposium Proceedings. IEEE: New York, NY, USA, pp. 1477 - 1481
102. Davies, I. M., Harding, M. J. C., Bailey, S. K., Shanks, A. M., and Lange, R. 1997a. Sublethal effects of tributyltin oxide on the dogwhelk *Nucella lapillus*. *Mar Ecol Prog Ser.* **158**: 191 - 204.
103. Davies, I. M., Minchin, A., and Harding, M. J. C. 1997b. OSPAR working group on concentrations, trends and effects of substances in the marine environment (SIME) - Report on the TBT Training workshop *In* Marine Laboratory Aberdeen Report. Marine Laboratory, Aberdeen. pp. 36pp.
104. Davies, I. M., Bailey, S. K., and Harding, M. J. C. 1998a. Tributyltin inputs to the North Sea from shipping activities, and potential risk of biological effects. *ICES J Mar Sci.* **55**: 34 - 43.
105. Davies, I. M., Harding, M. J. C., Bailey, S. K., Shanks, A. M., and Lange, R. 1998b. Reply to comment 'Tributyltin and imposex: no uncertainty shown' by Ruiz et al. *Mar Ecol Prog Ser.* **170**: 295 - 297.
106. Davies, I. M., Minchin, A., Bauer, B., Harding, M. J. H., and Wells, D. E. 1999. QUASIMEME laboratory performance study of the biological effects of tributyltin (imposex and intersex) on two marine gastropod molluscs. *J Environ Monitor.* **1**: 233 - 238.
107. de Castro, I. B., Matthews-Cascon, H., and Fernandez, M. A. 2000. Occurrence of imposex in *Thais haemastoma* (Linnaeus, 1767) (Mollusca: Gastropoda), as an indicator of contamination by organotin on the coastal zone of Fortaleza City, Ceara State, Brazil. *Arq Cienc Mar.* **33**: 143 - 148.
108. de Castro, I. B., Meirelles, C. A. O., Matthews-Cascon, H., and Fernandez, M. A. 2004. *Thais (Stramonita) rustica* (Lamarck, 1822) (Mollusca: Gastropoda: Thaididae), a potential bioindicator of contamination by organotin Northeast Brazil. *Braz J Oceanogr.* **52**: 135 - 139.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

109. de Castro, I. B., de Meirelles, C. A. O., Pinheiro, J. C. L., Matthews-Cascon, H., and Rocha-Barreira, C. A. 2005a. The Increasing incidence of imposex in *Stramonita haemastoma* (Mollusca: Gastropoda: Muricidae) after the establishment of the Pecem Harbor, Ceara State, northeast Brazil. *Thalassas*. **21**: 71 - 75.
110. de Castro, I. B., Braga, A. R. C., and Rocha-Barreira, C. A. 2005b. Altos índices de imposex em *Stramonita rustica* (Mollusca: Gastropoda) em áreas portuárias dos estados de Alagoas e Sergipe, Brasil. *Trop Oceanogr*. **33**: 121 - 128.
111. de Castro, I. B., Bemvenuti, C. E., and Fillmann, G. 2007a. Preliminary appraisal of imposex in areas under the influence of southern Brazilian harbors. *J Braz Soc Ecotoxicol*. **2**: 73 - 79.
112. de Castro, I. B., Alves de Lima, A. F., Braga, A. R. C., and Rocha-Barreira, C. A. 2007b. Imposex in two Muricid species (Mollusca: Gastropoda) from the northwestern Brazilian Coast. *J Braz Soc Ecotoxicol*. **2**: 81 - 91.
113. de Castro, I. B., Ribeiro-Ferreira, V. P., Lima, A. F. A., Meirelles, C. A. O., and Rocha-Barreira, C. A. 2007c. Imposex in three prosobranch species from Ilha do Japonês, Rio de Janeiro, southeast Brazil. *Thalassas*. **23**: 37 - 42.
114. de Castro, I. B., de Meirelles, C. A. O., Matthews-Cascon, H., Rocha-Barreira, C. D., Penchaszadeh, P., and Bigatti, G. 2008. Imposex in endemic Volutid from northeast Brazil (Mollusca: Gastropoda). *Braz Arch Biol Techn*. **51**: 1065 - 1069.
115. Delaney, J. L. 2001. The occurrence of imposex in *Nucella lapillus* within the Saint John Harbour. BSc. Honours Thesis – *University of New Brunswick, Saint John*, New Brunswick.
116. de Lima, A. F. A., de Castro, I. B., and Rocha-Barreira, C. A. 2006. Imposex induction in *Stramonita haemastoma floridana* (Conrad, 1837) (Mollusca: Gastropoda: Muricidae) submitted to an organotin-contaminated diet. *Braz J Oceanogr*. **54**: 85 - 90.
117. Delmonte, S. 1999. Testosterone and TBT metabolism by *Littorina littorea*: An investigation of TBT induced imposex in a marine gastropod. MSc. Thesis, *California State University, California*.
118. Demaintenon, M. J. 2001. Ontogeny of the pseudohermaphroditic reproductive system in *Nassarius vibex* (Gastropoda: Buccinidae: Nassariinae). *J Mollus Stud*. **67**: 51 - 57.
119. Depledge, M. H., and Billingham, Z. 1999. Ecological significance of endocrine disruption in marine invertebrates. *Mar Pollut Bull*. **39**: 32 - 38.
120. Deutsch, U., and Brick, M. 1993. Morphological effects of tributyltin (TBT) *in vitro* on the genital system of the mesogastropod *Littorina littorea* (Prosobranchia). *Helgolander Meeresun*. **47**: 49 - 60.
121. Deutsch, U., and Fioroni, P. 1996. Effects of tributyltin (TBT) and testosterone on the female genital system in the mesogastropod *Littorina littorea* (Prosobranchia). *Helgolander Meeresun*. **50**: 105 - 115.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

122. Deutsch, U., Oehlmann, J., and Stroben, E. 1996. Morphological effects of tributyltin (TBT) on the genital system of the Mesogastropod *Littorina littorea* (Prosobranchia). *Malacol Rev Suppl - Molluscan Reproduction*. **6**: 143 - 148.
123. De Wolf, H., De Coen, W., Backeljau, T., and Blust, R. 2001. Intersex and sterility in the periwinkle *Littorina littorea* (Mollusca: Gastropoda) along the western Scheldt estuary, the Netherlands. *Mar Environ Res*. **52**: 249 - 255.
124. De Wolf, H., Handa, C., Backeljau, T., and Blust, R. 2004. A baseline survey of intersex in *Littorina littorea* along the Scheldt estuary, The Netherlands. *Mar Pollut Bull*. **48**: 592 - 596.
125. Douglas, E. W., Evans, S. M., Frid, C. L. J., Hawkins, S. T., Mercer, T. S., and Scott, C. L. 1993. Assessment of imposex in the dogwhelk *Nucella lapillus* (L) and tributyltin along the northeast coast of England. *Invertebr Reprod Dev*. **24**: 243 - 248.
126. Duft, M., Schulte-Oehlmann, U., Tillmann, M., Markert, B., and Oehlmann, J. 2003. Toxicity of triphenyltin and tributyltin to the freshwater mudsnail *Potamopyrgus antipodarum* in a new sediment biotest. *Environ Toxicol Chem*. **22**: 145 - 152.
127. Duft, M., Schulte-Oehlmann, U., Tillmann, M., Weltje, L., and Oehlmann, J. 2005. Biological impact of organotin compounds on mollusks in marine and freshwater ecosystems. *Coast Mar Sci*. **29**: 95 - 110.
128. Duft, M., Schmitt, C., Bachmann, J., Brandelik, C., Schulte-Oehlmann, U., and Oehlmann, J. 2007. Prosobranch snails as test organisms for the assessment of endocrine active chemicals - An overview and a guideline proposal for a reproduction test with the freshwater mudsnail *Potamopyrgus antipodarum*. *Ecotoxicol*. **16**: 169 - 182.
129. Ellis, D. V., and Pattisina, L. A. 1990. Widespread neogastropod imposex - A biological indicator of global TBT contamination. *Mar Pollut Bull*. **21**: 248 - 253.
130. El Menif, N. T., Lahbib, Y., Le Pennec, M., Flower, R., and Boumaiza, M. 2006. Intensity of the imposex phenomenon - Impact on growth and fecundity in *Hexaplex trunculus* (Mollusca: Gastropoda) collected in Bizerta lagoon and channel (Tunisia). *Cah Biol Mar*. **47**: 165 - 175.
131. El-Menif, N., Lahbib, Y., Ramdani, M., Boumaiza, M., and Le Pennec, M. 2007. Imposex in the marine neogastropod *Hexaplex trunculus* from Tunisian Coasts: Geographical distribution and development intensity. *Vie Milieu*. **57**: 37 - 42.
132. Evans, S. M. 1998. Biological measures of TBT contamination: Is there sex after imposex? *Abstr Am Chem Soc*. **215**: 586.
133. Evans, S. M. 1999a. TBT or not TBT?: That is the Question. *Biofouling*. **14**: 117 - 129.
134. Evans, S. M. 1999b. Tributyltin pollution: The catastrophe that never happened. *Mar Pollut Bull*. **38**: 629 - 636.
135. Evans, S. M. 2000. Tributyltin pollution: The catastrophe that never happened - Response to the letter from Nichols. *Mar Pollut Bull*. **40**: 713 - 715.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

136. Evans, S. M., and Nicholson, G. J. 1999. Assessing the impact of antifouling compounds in the marine environment. Lessons to be learned from the use and misuse of biological indicators of TBT contamination. *In* Proceedings of the Oceans '99 – Organotin Symposium Proceedings. IEEE: Seattle, W. A. USA, pp. 1115 - 1118.
137. Evans, S. M., and Nicholson, G. J. 2000. The use of imposex to assess tributyltin contamination in coastal waters and open seas. *Sci Total Environ.* **258**: 73 - 80.
138. Evans, S. M., Hutton, A., Kendall, M. A., and Samosir, A. M. 1991. Recovery in populations of dogwhelks *Nucella lapillus* (L.) suffering from imposex. *Mar Pollut Bull.* **22**: 331 - 333.
139. Evans, S. M., Hawkins, S. T., Porter, J., and Samosir, A. M. 1994. Recovery of dogwhelk populations on the Isle of Cumbrae, Scotland following legislation limiting the use of TBT as an antifoulant. *Mar Pollut Bull.* **28**: 15 - 17.
140. Evans, S. M., Leksono, T., and McKinnell, P. D. 1995a. Tributyltin pollution - A diminishing problem following legislation limiting the use of TBT-based antifouling paints. *Mar Pollut Bull.* **30**: 14 - 21.
141. Evans, S. M., Dawson, M., Day, J., Frid, C. L. J., Gill, M. E., Pattisina, L. A., and Porter, J. 1995b. Domestic waste and TBT pollution in coastal areas of Ambon Island (eastern Indonesian). *Mar Pollut Bull.* **30**: 109 - 115.
142. Evans, S. M., Evans, P. M., and Leksono, T. 1996. Widespread recovery of dogwhelks, *Nucella lapillus* (L.), from tributyltin contamination in the North Sea and Clyde Sea. *Mar Pollut Bull.* **32**: 263 - 269.
143. Evans, S. M., Nicholson, G. J., Browning, C., Hardman, E., Seligman, O., and Smith, R. 1998. An assessment of tributyltin contamination in the North Atlantic using imposex in the dogwhelk *Nucella lapillus* (L.) as a biological indicator of TBT pollution. *Invertebr Reprod Dev.* **34**: 277 - 287.
144. Evans, S. M., Kerrigan, E., and Palmer, N. 2000a. Causes of imposex in the dogwhelk *Nucella lapillus* (L.) and its use as a biological indicator of tributyltin contamination. *Mar Pollut Bull.* **40**: 212 - 219.
145. Evans, S. M., Birchenough, A. C., and Fletcher, H. 2000b. The value and validity of community-based research: TBT contamination of the North Sea. *Mar Pollut Bull.* **40**: 220 - 225.
146. Evans, S. M., Barnes, N., Birchenough, A. C., Brancato, M. S., and Hardman, E. 2001a. Tributyltin contamination in two estuaries and adjacent ocean coasts: Puget Sound, Washington, and Narragansett Bay, Rhode Island (USA). *Invertebr Reprod Dev.* **39**: 221 - 229.
147. Evans, S. M., Bech, M., Hawkins, S. T., Smith, R., and Stewart, A. 2001b. Imposex in populations of dogwhelks *Thais* spp. in relation to shipping intensity and mariculture activity in East Asia. *Invertebr Reprod Dev.* **39**: 231 - 237.
148. Fent, K. 1996. Ecotoxicology of organotin compounds. *Crit Rev Toxicol.* **26**: 1 - 117.
149. Fent, K. 2006. Worldwide occurrence of organotins from antifouling paints and effects in the aquatic environment. *The Handbook of Environmental Chemistry.* **5**: 71 - 100.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

150. Féral, C. 1974. Étude comparee des populations d'*Ocenebra erinacea* (L.) de Granville et d' Arcachon. *Haliotis*. **4**: 123 - 134.
151. Féral, C. 1975. Mise en evidence des facteurs determinant l'apparition et le cycle d'un tractus genital male chez les femelles d'*Ocenebra erinacea* (L.) du bassin d'Arcachon. *B Soc Zool Fr*. **100**: 250 - 252.
152. Féral, C. 1976a. Etude Statistiques de la presence d'un tractus genital male extern chez les femelles d'un mollusque gasteropode gonochorique: *Ocenebra erinacea* (L.). *Cah Biol Mar*. **17**: 61 - 76.
153. Féral, C. 1976b. Répartition géographique des femelles à tractus génital mâle externe chez *Ocenebra erinacea* (L.), espèce gonochorique. *Haliotis*. **7**: 29 - 30.
154. Féral, C. 1977. Analyse experimental de la morphogenese et du cycle du penis les femelles d'*Ocenebra erinacea*, espece gonochorique. *Haliotis*. **6**: 267 - 271.
155. Féral, C. 1978a. Présence des facterus morphogénétique et dédifférenciateur du pénis chez un Mollusque Prosobranch gonochorique *Ocenebra erinacea* (L.). *C R Hebd Séances Acad Sci D*. **287**: 1235 - 1237.
156. Féral, C. 1978b. Variations dans l'evolution du tractus genital male des femelles de Gasteropodes Prosobranches gonochoriques de stations Atlantiques. *Haliotis*. **9**: 90.
157. Féral, C. 1979. Étude des facteurs régissant l'apparition d'un pénis chez les femelles d'*Ocenebra erinacea* L. (Mollusque Gastéropode gonochorique) de la station d' Arcachon. *C R Hebd Séances Acad Sci D*. **289**: 331 - 334.
158. Féral, C. 1980a. Apparition de femelles à tractus génital mâle externe chez *Ocenebra erinacea* (L.), Mollusque Gastéropode gonochorique de la station de Granville: Recherche des facteurs contrôlant de cette anomalie. *C R Hebd Séances Acad Sci D*. **290**: 1003 - 1006.
159. Féral, C. 1980b. Influence de la qualite de l'eau de mer sur la differenciation d'un tractus genital male externe chez les femelles. *C R Hebd Séances Acad Sci D*. **291**: 775 - 778.
160. Féral, C. 1980c. Variations dans l'evolution du tractus génital mâle externe des femelles de trois Gastéropodes Prosobranches gonochoriques de stations Atlantiques. *Cah Biol Mar*. **21**: 479 - 491.
161. Féral, C. L., and Le Gall, S. 1982. Physiologie des invertébrés - Induction expérimentale par un polluant marin (le tributylétain), de l'activité neuroendocrine contrôlant la morphogenèse du pénis chez les femelles d'*Ocenebra erinacea* (Mollusque, Prosobranch gonochorique). *C R Hebd Séances Acad Sci D*. **295**: 627 - 630.
162. Féral, C., and Le Gall, S. 1983. The influence of a pollutant factor (tributyltin) on the neuroendocrine mechanism responsible for the occurence of a penis in the females of *Ocenebra erinacea*. In *Proceedings of the International Minisymposium on Molluscan endocrinology. (Edited by J. Lever and H.H. Boer)*, Amsterdam, Netherlands, pp. 173 - 175.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

163. Fernandez, M. A. 2006. Brazilian experience on TBT pollution: Lessons for future studies. *J Coastal Res.* **39**: 1336 - 1339.
164. Fernandez, M. A., and Castro, I. B. 2008a. New observations on imposex development in South American marine gastropods. *Mar Environ Res.* **66**: 177.
165. Fernandez, M. A., and Pinheiro, F. M. 2008b. Will imposex still be useful after the TBT ban? *Mar Environ Res.* **66**: 180.
166. Fernandez, M. A., Limaverde, A. M., de Castro, I. B., Almeida, A. C. M., and Wagener, A. D. R. 2002. Occurrence of imposex in *Thais haemastoma*: possible evidence of environmental contamination derived from organotin compounds in Rio de Janeiro and Fortaleza, Brazil. *Cad Saude Publica.* **18**: 463 - 476.
167. Fernandez, M. A., Wagener, A. D. R., Limaverde, A. M., Scofield, A. L., Pinheiro, F. M., and Rodrigues, E. 2005. Imposex and surface sediment speciation: A combined approach to evaluate organotin contamination in Guanabara Bay, Rio de Janeiro, Brazil. *Mar Environ Res.* **59**: 435 - 452.
168. Fernandez, M. A., Pinheiro, F. M., de Quadros, J. P., and Camillo, E. 2007. An easy, non-destructive, probabilistic method to evaluate the imposex response of gastropod populations. *Mar Environ Res.* **63**: 41 - 54.
169. Finnegan, M. C., Pittman, S., and DeLorenzo, M. E. 2009. Lethal and sublethal toxicity of the antifoulant compound Irgarol 1051 to the mud snail *Ilyanassa obsoleta*. *Arch Environ Con Tox.* **56**: 85 - 95.
170. Fioroni, P., Oehlmann, J., and Stroben, E. 1990. Le pseudohermaphrodisme chez les prosobranches analyse morphologique et histologique. *Vie Milieu.* **40**: 45 - 56.
171. Fioroni, P., Stroben, E., and Oehlmann, J. 1991a. Fréquence et degré d'expression du pseudohermaphrodisme chez quelques Prosobranches Sténoglosses de la Baie Morlaix de la Manche 1. Situation au printemps de 1988. *Cah Biol Mar.* **32**: 281 - 294.
172. Fioroni, P., Oehlmann, J., and Stroben, E. 1991b. The pseudohermaphroditism of Prosobranchs - Morphological aspects. *Zool Anz.* **226**: 1 - 26.
173. Foale, S. 1993. An evaluation of the potential of gastropod imposex as a bioindicator of tributyltin pollution in Port Phillip Bay, Victoria. *Mar Pollut Bull.* **26**: 546 - 552.
174. Følsvik, N., Berge, J. A., Brevik, E. M., and Walday, M. 1999. Quantification of organotin compounds and determination of imposex in populations of dogwhelks (*Nucella lapillus*) from Norway. *Chemosphere.* **38**: 681 - 691.
175. Fujinaga, K., Ilano, A. S., Nomura, H., Miranda, R. T., and Nakao, S. 2006. Present state of imposex in Neptune whelk *Neptunea arthritica* inhabiting shallow waters around Hokkaido, Japan. *Fisheries Sci.* **72**: 995 - 1003.
176. Galante-Oliveira, S., Langston, W. J., Burt, G. R., Pereira, M. E., and Barroso, C. M. 2006. Imposex and organotin body burden in the dog-whelk (*Nucella lapillus* L.) along the Portuguese coast. *Appl Organomet Chem.* **20**: 1 - 4.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

177. Galante-Oliveira, S., Oliveira, I., Jonkers, N., Langston, W. J., Pacheco, M., and Barroso, C. M. 2009. Imposex levels and tributyltin pollution in Ria de Aveiro (NW Portugal) between 1997 and 2007: evaluation of legislation effectiveness. *J Environ Monitor.* **11**: 1405 - 1411.
178. Galloway, T. S., Bastable, H., and Hagger, J. 2006. Mechanisms of endocrine toxicity: Carbonic anhydrase, calcium metabolism and imposex. *Mar Environ Res.* **62**: S238.
179. Garaventa, F., Pellizzato, F., Faimali, M., Terlizzi, A., Medakovic, D., Geraci, S., and Pavoni, B. 2006a. Imposex in *Hexaplex trunculus* at some sites on the North Mediterranean Coast as a base-line for future evaluation of the effectiveness of the total ban on organotin based antifouling paints. *Hydrobiol.* **555**: 281 - 287.
180. Garaventa, F., Faimali, M., Terlizzi, A., Fiorini, S., and Gallo, G. 2006b. Imposex induction in *Hexaplex trunculus* by tributyltin and other stressors. *Mar Environ Res.* **62**: S230.
181. Garaventa, F., Faimali, M., and Terlizzi, A. 2006c. Imposex in pre-pollution times. Is TBT to blame? *Mar Pollut Bull.* **52**: 701 - 702.
182. Garaventa, F., Centanni, E., Pellizzato, F., Faimali, M., Terlizzi, A., and Pavoni, B. 2007. Imposex and accumulation of organotin compounds in populations of *Hexaplex trunculus* (Gastropoda, Muricidae) from the Lagoon of Venice (Italy) and Istrian Coast (Croatia). *Mar Pollut Bull.* **54**: 615 - 622.
183. Garaventa, F., Centanni, E., Fiorini, S., Noventa, S., Terlizzi, A., Faimali, M., and Pavoni, B. 2008. New implications in the use of imposex as a suitable tool for tributyltin contamination: experimental induction in *Hexaplex trunculus* (Gastropoda, Muricidae) with different stressors. *Cell Biol Toxicol.* **24**: 563 - 571.
184. Gibbs, P., and Bryan, G. W. 1986. Reproductive failure in populations of the dogwhelk, *Nucella lapillus*, caused by imposex induced by tributyltin from antifouling paints. *J Mar Biol Assoc UK.* **66**: 767 - 777.
185. Gibbs, P., Bryan, G., Pascoe, P., and Burt, G. 1987. The use of the dogwhelk, *Nucella lapillus*, as an indicator of tributyltin (TBT) contamination. *J Mar Biol Assoc UK.* **67**: 507 - 523.
186. Gibbs, P., Pascoe, P., and Burt, G. 1988. Sex change in the female dogwhelk, *Nucella lapillus*, induced by tributyltin from antifouling paints. *J Mar Biol Assoc UK.* **68**: 715 - 731.
187. Gibbs, P., Bryan, G., and Spence, S. 1991. The impact of tributyltin (TBT) pollution on the *Nucella lapillus* (Gastropoda) populations around the coast of South-East England. *Oceanol Acta.* **11**: 257 - 261.
188. Gibbs, P. E. 1993. A male genital defect in the dogwhelk, *Nucella lapillus* (Neogastropoda), favoring survival in a TBT-polluted area. *J Mar Biol Assoc UK.* **73**: 667 - 678.
189. Gibbs, P. E. 1996. Oviduct malformation as a sterilising effect of tributyltin (TBT)-induced imposex in *Ocenebra erinacea* (Gastropoda: Muricidae). *J Mollus Stud.* **62**: 403 - 413.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

190. Gibbs, P. E. 1999. Biological effects of contaminants: Use of imposex in the dogwhelk (*Nucella lapillus*) as a bioindicator of tributyltin pollution. ICES Techniques in Mar Environ Sci. **24**: 1 - 29.
191. Gibbs, P. E. 2005. Male genital defect (Dumpton Syndrome) in the dog-whelk *Nucella lapillus* (Neogastropoda): Mendelian inheritance inferred, based on laboratory breeding experiments. J Mar Biol Assoc UK. **85**: 143 - 150.
192. Gibbs, P. E. 2009. Long-term tributyltin (TBT)-induced sterilization of neogastropods: persistence of effects in *Ocenebra erinacea* over 20 years in the vicinity of Falmouth (Cornwall, UK). J Mar Biol Assoc UK. **89**: 135 - 138.
193. Gibbs, P. E., and Bryan, G. W. 1987. TBT Paints and the demise of the dog-whelk, *Nucella lapillus* (Gastropoda). In Proceedings of Oceans '87- Organotin Symposium Proceedings, pp. IEEE. New York, N.Y., pp. 1482 - 1487.
194. Gibbs, P. E., and Bryan, G. W. 1994. Biomonitoring of tributyltin (TBT) pollution using the imposex response of neogastropod molluscs. CRC Press Incorporated, Boca Raton, Florida., pp 205 - 241.
195. Gibbs, P. E., and Bryan, G. W. 1996a. Reproductive failure in the gastropod *Nucella lapillus* associated with imposex caused by tributyltin pollution: A Review. In Organotin (Edited by M. A. Champ and P. F. Seligman). Chapman and Hall, London., pp. 259 - 280.
196. Gibbs, P. E., and Bryan, G. W. 1996b. TBT-induced imposex in neogastropod snails: Masculinisation to mass extinction. In Tributyltin: Case Study of an Environmental Contaminant (Edited by S.J. de Mora). Cambridge University Press, Cambridge, Great Britain. pp. 212 - 236.
197. Gibbs, P. E., Bryan, G. W., Pascoe, P.L., and Burt, G. R. 1990. Reproductive abnormalities in female *Ocenebra erinacea* (Gastropoda) resulting from tributyltin-induced imposex. J Mar Biol Assoc UK. **70**: 639 - 656.
198. Gibbs, P. E., Pascoe, P. L., and Bryan, G. W. 1991a. Tributyltin-induced imposex in Stenoglossan gastropods - Pathological effects on the female reproductive-system. Comp Biochem Phys C. **100**: 231 - 235.
199. Gibbs, P. E., Spencer, B. E., and Pascoe, P. L. 1991b. The American oyster drill, *Urosalpinx cinerea* (Gastropoda) - Evidence of decline in an imposex-affected population (R-Blackwater, Essex). J Mar Biol Assoc UK. **71**: 827 - 838.
200. Gibbs, P. E., Bryan, G. W., and Pascoe, P. L. 1991c. TBT-induced imposex in the dogwhelk, *Nucella lapillus* - Geographical uniformity of the response and effects. Mar Environ Res. **32**: 79 - 87.
201. Gibbs, P. E., Bebianno, M. J., and Coelho, M. R. 1997. Evidence of the differential sensitivity of neogastropods to tributyltin (TBT) pollution, with notes on a species (*Columbella rustica*) lacking the imposex response. Environ Technol. **18**: 1219 - 1224.
202. Gibbs, P. E., Green, J. C., and Pascoe, P. L. 1999. A massive summer-kill of the dog-whelk, *Nucella lapillus*, on the north Cornwall coast in 1995: freak or forerunner? J Mar Biol Assoc UK. **79**: 103 - 109.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

203. Gibson, C. P., and Wilson, S. P. 2003. Imposex still evident in eastern Australia 10 years after tributyltin restrictions. *Mar Environ Res.* **55**: 101 - 112.
204. Giltrap, M., Macken, A., Minchin, D., Davoren, M., McGovern, E., Foley, B., Strand, J., and McHugh, B. 2007. An in-situ study using caged *Nucella lapillus* and *Crassostrea gigas* to monitor TBT induced bio-effects in Irish coastal waters. *In* SETAC 28th Annual Meeting (November 11 – 15, 2007), Milwaukee, Wisconsin.
205. Giltrap, M., Macken, A., Davoren, M., Minchin, D., McGovern, E., Foley, B., Strand, J., and McHugh, B. 2009. Use of caged *Nucella lapillus* and *Crassostrea gigas* to monitor tributyltin-induced bioeffects in Irish coastal waters. *Environ Toxicol Chem.* **28**: 1671 - 1678.
206. Godtfredsen, K., Hotchkiss, D., Williston, D., Stern, J., Fox, S., J., G., Andersen, H., and Kohn, A. 2005. Analysis of imposex in neogastropods collected from the lower Duwamish Waterway. *In* SETAC 26th Annual Meeting (November 13 – 17, 2005), Baltimore, Maryland.
207. Goldberg, R. N., Averbuj, A., Cledon, M., Luzzatto, D., and Nudelman, N. S. 2004. Search for triorganotins along the Mar del Plata (Argentina) marine coast: Finding of tributyltin in egg capsules of a snail *Adelomelon brasiliana* (Lamarck, 1822) population showing imposex effects. *Appl Organomet Chem.* **18**: 117 - 123.
208. Gómez-Ariza, J. L., Santos, M. M., Morales, E., Giraldez, I., Sanchez-Rodas, D., Vieira, N., Kemp, J. F., Boon, J. P., and Ten-Hallers-Tjabbes, C. C. 2006. Organotin contamination in the Atlantic Ocean off the Iberian Peninsula in relation to shipping. *Chemosphere.* **64**: 1100 - 1108.
209. Gooding, M., Gallardo, C., and Leblanc, G. 1999. Imposex in three marine gastropod species in Chile and potential impact on muriciculture. *Mar Pollut Bull.* **38**: 1227 - 1231.
210. Gooding, M. P. 2002. The role of steroid metabolism in tributyltin-induced imposex in the eastern mud snail (*Ilyanassa obsoleta*). PhD. Thesis, *North Carolina State University*, North Carolina.
211. Gooding, M. P., and LeBlanc, G. A. 2001. Biotransformation and disposition of testosterone in the eastern mud snail *Ilyanassa obsoleta*. *Gen Comp Endocr.* **122**: 172 - 180.
212. Gooding, M. P., Wilson, V. S., Folmar, L. C., Marcovich, D. T., and LeBlanc, G. A. 2003. The biocide tributyltin reduces the accumulation of testosterone as fatty acid esters in the mud snail (*Ilyanassa obsoleta*). *Environ Health Persp.* **111**: 426 - 430.
213. Gooding, M. P., and LeBlanc, G. A. 2004. Seasonal variation in the regulation of testosterone levels in the eastern mud snail (*Ilyanassa obsoleta*). *Invertebr Biol.* **123**: 237 - 243.
214. Gravel, P., Johanning, K., McLachlan, J., Vargas, J. A., and Oberdörster, E. 2006. Imposex in the intertidal snail *Thais brevidentata* (Gastropoda: Muricidae) from the Pacific coast of Costa Rica. *Rev Biol Trop.* **54**: 21 - 26.
215. Griffith, G. W., and Castagna, M. 1962. Sexual dimorphism in oyster drills of Chincoteague Bay, Maryland, Virginia. *Chesapeake Sci.* **3**: 215 - 217.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

216. Hagger, J. A., Depledge, M. H., Oehlmann, J., Jobling, S., and Galloway, T. S. 2006. Is there a causal association between genotoxicity and the imposex effect? *Environ Health Persp.* **114**: 20 - 26.
217. Hall, J. G., and Feng, S. Y. 1976. Genital variation among Connecticut populations of the oyster drill *Urosalpinx cinera*. *Veliger*. **18**: 318 - 321.
218. Harding, M. J. C., and Davies, I. M. 2000. A field evaluation of international monitoring guidelines for the biological effects of tributyltin. *J Environ Monitor.* **2**: 404 - 409.
219. Harding, M. J. C., Rodger, G. K., and Davies, I. M. 1994. Effects of tributyltin on *Littorina* sp. *In Fisheries Research Services Report (Edited by S.o.o.A.a.F. Department)*. pp. 19 pp.
220. Harding, M. J. C., Rodger, G. K., Davies, I. M., and Moore, J. J. 1997. Partial recovery of the dogwhelk (*Nucella lapillus*) in Sullom Voe, Shetland from tributyltin contamination. *Mar Environ Res.* **44**: 285 - 304.
221. Harding, M. J. C., Davies, I. M., Bailey, S. K., and Rodger, G. K. 1999. Survey of imposex in dogwhelks (*Nucella lapillus*) from North Sea coasts. *Appl Organomet Chem.* **13**: 521 - 538.
222. Harrison, P. T. C., Holmes, P., and Humfrey, C. D. N. 1997. Reproductive health in humans and wildlife: Are adverse trends associated with environmental chemical exposure? *Sci Total Environ.* **205**: 97 - 106.
223. Hashimoto, S., Watanabe, M., Noda, Y., Hayashi, T., Kurita, Y., Takasu, Y., and Otsuki, A. 1998. Concentration and distribution of butyltin compounds in a heavy tanker route in the Strait of Malacca and in Tokyo Bay. *Mar Environ Res.* **45**: 169 - 177.
224. Hawkins, L. E., and Hutchinson, S. 1990. Physiological and morphogenetic effects of monophenyltin trichloride on *Ocenebra erinacea* (L). *Funct Ecol.* **4**: 449 - 454.
225. Hernandez, S., and Stotz, W. B. 2004. Reproductive biology of the "Copey" snail *Melongena melongena* (Linnaeus, 1758) in Cispat Bay on the Caribbean coast of Colombia. *J Shellfish Res.* **23**: 849 - 854.
226. Horiguchi, T. 2006a. Masculinization of female gastropod mollusks induced by organotin compounds, focusing on mechanisms of actions of tributyltin and triphenyltin for development of imposex. *Environ Sci.* **13**: 77 - 87.
227. Horiguchi, T. 2006b. Endocrine disruption caused by organotin compounds in gastropod mollusks. *In 3rd Asia-Pacific Workshop - "Modern approaches to linking exposure to Toxic Compounds and Biological effects"*, Xiamen, China. pp. 101-109.
228. Horiguchi, T. 2007. Endocrinology and induction mechanism of imposex in gastropod molluscs. *Jpn Soc Biomed Res Trace Elem.* **18**: 231 - 240.
229. Horiguchi, T., Shiraishi, H., Shimizu, M., and Morita, M. 1994. Imposex and organotin compounds in *Thais clavigera* and *T. bronni* in Japan. *J Mar Biol Assoc UK.* **74**: 651 - 669.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

230. Horiguchi, T., Shiraishi, H., Shimizu, M., Yamazaki, S., and Morita, M. 1995. Imposex in Japanese gastropods (Neogastropoda and Mesogastropoda): Effects of tributyltin and triphenyltin from antifouling paints. *Mar Pollut Bull.* **31**: 402 - 405.
231. Horiguchi, T., Shiraishi, H., Shimizu, M., and Morita, M. 1997a. Imposex in sea snails, caused by organotin (tributyltin and triphenyltin) pollution in Japan: A survey. *Appl Organomet Chem.* **11**: 451 - 455.
232. Horiguchi, T., Shiraishi, H., Shimizu, M., and Morita, M. 1997b. Effects of triphenyltin chloride and five other organotin compounds on the development of imposex in the rock shell, *Thais clavigera*. *Environ Pollut.* **95**: 85 - 91.
233. Horiguchi, T., Hamada, F., Kajikawa, A., Shiraishi, H., Shimizu, M., and Morita, M. 1998a. Imposex and population decline in the ivory shell, *Babylonia japonica*. *Abstr Am Chem Soc.* **215**: U586 - U586.
234. Horiguchi, T., Shiraishi, H., Cho, H. S., Shibata, Y., Shimizu, M., and Morita, M. 1998b. Less recovery from imposex in the rock shell, *Thais clavigera* and organotin contamination after the regulation of organotin usage in antifouling paints in Japan. *Abstr Am Chem Soc.* **215**: U587.
235. Horiguchi, T., Hyeon-Seo, C., Shiraishi, H., Shibata, Y., Soma, M., Morita, M., and Shimizu, M. 1998c. Field studies on imposex and organotin accumulation in the rock shell, *Thais clavigera*, from the Seto Inland Sea and the Sanriku region, Japan. *Sci Total Environ.* **214**: 65 - 70.
236. Horiguchi, T., Takiguchi, N., Cho, H. S., Kojima, M., Kaya, M., Shiraishi, H., Morita, M., Hirose, H., and Shimizu, M. 2000. Ovo-testis and disturbed reproductive cycle in the giant abalone, *Haliotis madaka*: Possible linkage with organotin contamination in a site of population decline. *Mar Environ Res.* **50**: 223 - 229.
237. Horiguchi, T., Seiichi, U., Shimizu, M., Shiraishi, H., and Morita, M. 2001a. Contamination of organotin compounds and imposex in molluscs from Vancouver, Canada. *In Environmental Assessment of Vancouver Harbour Data Report for the PICES Practical Workshops*, vol. 16 (*Edited by C.M. Stehr and T. Horiguchi*). pp. 53 - 56.
238. Horiguchi, T., Cho, H. S., Shiraishi, H., Kojima, M., Kaya, M., Morita, M., and Shimizu, M. 2001b. Contamination by organotin (tributyltin and triphenyltin) compounds from antifouling paints and endocrine disruption in marine gastropods. *Riken Rev.* **35**: 9 -11.
239. Horiguchi, T., Kojima, M., Kaya, M., Matsuo, T., Shiraishi, H., Morita, M., and Adachi, Y. 2002. Tributyltin and triphenyltin induce spermatogenesis in ovary of female abalone, *Haliotis gigantea*. *Mar Environ Res.* **54**: 679 - 684.
240. Horiguchi, T., Li, Z., Uno, S., Shimizu, M., Shiraishi, H., Morita, M., Thompson, J. A. J., and Levings, C. D. 2003. Contamination of organotin compounds and imposex in molluscs from Vancouver, Canada. *Mar Environ Res.* **57**: 75 - 88.
241. Horiguchi, T., Shiraishi, H., Hyeon-Seo, C., Ohta, Y., Iguchi, T., Nishikawa, T., Shiraishi, F., Morita, M., and Nishikawa, J. 2004a. Imposex induced by organotin compounds in gastropods: From molecular mechanism to population-level effects. *J Pharm Soc Japan (Yakugaku Zasshi)*. **124**: 48.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

242. Horiguchi, T., Kojima, M., Takiguchi, N., Kaya, M., Shiraishi, H., Morita, M., and Imai, T. 2004b. Continuing observation of endocrine disruption in abalone from an organotin-contaminated site of Japan. *In* SETAC 25th Annual Meeting (November 14 – 18, 2004), Portland, Oregon, USA.
243. Horiguchi, T., Nishikawa, T., Ohta, Y., Mamiya, S., Kanayama, T., Shiraishi, F., Shiraishi, H., Morita, M., and Nishikawa, J. 2004c. Involvement of the Retinoid X Receptor in the imposex development caused by organotins in gastropods. *In* SETAC 25th Annual Meeting (November 14 – 18, 2004), Portland, Oregon, USA.
244. Horiguchi, T., Kojima, M., Takiguchi, N., Kaya, M., Shiraishi, H., and Morita, M. 2005. Continuing observation of disturbed reproductive cycle and ovarian spermatogenesis in the giant abalone, *Haliotis madaka* from an organotin-contaminated site of Japan. *Mar Pollut Bull.* **51**: 817 - 822.
245. Horiguchi, T., Shiraishi, H., Nishikawa, T., Shiraishi, F., Nishikawa, J., Ohta, Y., and Morita, M. 2006a. Analysis of induction mechanism of imposex caused by tributyltin and triphenyltin in gastropod molluscs. *Biomed Res Trace Ele.* **17**: 152 - 154.
246. Horiguchi, T., Kojima, M., Hamada, F., Kajikawa, A., Shiraishi, H., Morita, M., and Shimizu, M. 2006b. Impact of tributyltin and triphenyltin on ivory shell (*Babylonia japonica*) populations. *Environ Health Persp.* **114**: 13 - 19.
247. Horiguchi, T., Nishikawa, T., Ohta, Y., Shiraishi, H., and Morita, M. 2007. Retinoid X Receptor gene expression and protein content in tissues of the rock shell *Thais clavigera*. *Aquat Toxicol.* **84**: 379 - 388.
248. Horiguchi, T., Ohta, Y., Nishikawa, T., Shiraishi, F., Shiraishi, H., and Morita, M. 2008. Exposure to 9-cis retinoic acid induces penis and vas deferens development in the female rock shell, *Thais clavigera*. *Cell Biol Toxicol.* **24**: 553 - 562.
249. Houston, R. S. 1971. Reproductive biology of *Thais emarginata*. *Veliger.* **13**: 348 - 357.
250. Huang, C. J., Zhu, S. X., Lin, J. D., and Dong, Q. X. 2008. Imposex of *Mauritia arabica* on the south-eastern coast of China. *J Mar Biol Assoc UK.* **88**: 1451 - 1457.
251. Huaquín, L. G., Osorio, C., Verdugo, R., and Collado, G. 2004. Morphological changes in the reproductive system of females *Acanthina monodon* (Pallas, 1774) (Gastropoda: Muricidae) affected by imposex from the coast of central Chile. *Invertebr Reprod Dev.* **46**: 111 - 117.
252. Huet, M. 1994. Comparison of imposex response in three prosobranch species. *Cah Biol Mar.* **35**: 247 - 248.
253. Huet, M., Fioroni, P., Oehlmann, J., and Stroben, E. 1995. Comparison of imposex response in three prosobranch species. *Hydrobiol.* **309**: 29 - 35.
254. Huet, M., Paulet, Y. M., and LePennec, M. 1996a. Survival of *Nucella lapillus* in a tributyltin polluted area in west Brittany: A further example of a male genital defect (Dumpton Syndrome) favouring survival. *Mar Biol.* **125**: 543 - 549.
255. Huet, M., Paulet, Y. M., and Glemarec, M. 1996b. Tributyltin (TBT) pollution in the coastal waters of west Brittany as indicated by imposex in *Nucella lapillus*. *Mar Environ Res.* **41**: 157 - 167.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

256. Huet, M., Paulet, Y. M., and Clavier, J. 2004. Imposex in *Nucella lapillus*: A ten year survey in NW Brittany. *Mar Ecol Prog Ser.* **270**: 153 - 161.
257. Huet, M., Le Goic, N., and Gibbs, P. E. 2008. Appearance of a genetically-based pollution resistance in a marine gastropod, *Nucella lapillus*, in south-west Brittany: A new case of Dumpton syndrome. *J Mar Biol Assoc UK.* **88**: 1475 - 1479.
258. Hung, T. C., Hsu, W. K., Meng, P. J., and Chuang, A. 2000. Species of organotins in imposex of rock shells and hermaphroditic oysters from the western coast of Taiwan. *Bulletin - Institute of Chemistry Academia Sinica.* **47**: 1 - 12.
259. Hung, T. C., Hsu, W. K., Mang, P. J., and Chuang, A. 2001. Organotins and imposex in the rock shell, *Thais clavigera*, from oyster mariculture areas in Taiwan. *Environ Pollut.* **112**: 145 - 152.
260. Hwang, G., Myung, C. S., Park, S. I., Song, S. J., and Maclean, N. 2009. Isolation and characterization of microsatellite loci from rock shell, *Thais clavigera*. *Mol Ecol Resour.* **9**: 1227 - 1229.
261. Ide, I., Witten, E. P., Fischer, J., Kalbfus, W., Zellner, A., Stroben, E., and Watermann, B. 1997. Accumulation of organotin compounds in the common whelk *Buccinum undatum* and the red whelk *Neptunea antiqua* in association with imposex. *Mar Ecol Prog Ser.* **152**: 197 - 203.
262. Iguchi, T., Katsu, Y., Horiguchi, T., Watanabe, H., Blumberg, B., and Ohta, Y. 2007. Endocrine disrupting organotin compounds are potent inducers of imposex in gastropods and adipogenesis in vertebrates. *Mol Cell Toxicol.* **3**: 1 - 10.
263. Iguchi, T., Watanabe, H., Ohta, Y., and Blumberg, B. 2008. Developmental effects: Oestrogen-induced vaginal changes and organotin-induced adipogenesis. *Int J Androl.* **31**: 263 - 268.
264. Janer, G., Bachmann, J., Oehlmann, J., Schulte-Oehlmann, U., and Porte, C. 2006a. The effect of organotin compounds on gender specific androstenedione metabolism in the freshwater ramshorn snail *Marisa cornuarietis*. *J Steroid Biochem.* **99**: 147 - 156.
265. Janer, G., Lyssimachou, A., Bachmann, J., Oehlmann, J., Schulte-Oehlmann, U., and Porte, C. 2006b. Sexual dimorphism in esterified steroid levels in the gastropod *Marisa cornuarietis*: The effect of xenoandrogenic compounds. *Steroids.* **71**: 435 - 444.
266. Janer, G., Navarro, J. C., and Porte, C. 2007. Exposure to TBT increases accumulation of lipids and alters fatty acid homeostasis in the ramshorn snail *Marisa cornuarietis*. *Comp Biochem Phys C.* **146**: 368 - 374.
267. Jenner, M. G. 1978. Pseudohermaphroditism: A newly recognized sexual phenomenon in *Ilyanassa obsoleta* and other neogastropods. PhD. Thesis, *University of Chapel Hill*, North Carolina.
268. Jenner, M. G. 1979. Pseudohermaphroditism in *Ilyanassa obsoleta* (Mollusca, Neogastropoda). *Science.* **205**: 1407 - 1409.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

269. Jörundsdóttir, K., Svavarsson, K., and Leung, K. M. Y. 2005. Imposex levels in the dogwhelk *Nucella lapillus* (L.) - Continuing improvement at high latitudes. *Mar Pollut Bull.* **51**: 744 - 749.
270. Kantor, Y. I. 1984. Pseudohermaphroditism in *Buccinum undatum* (Gastropoda, Prosobranchia). *Zool Zh.* **63**: 1256 - 1258.
271. Kantor, Y. I., and Sysoev, A. V. 1991. Sexual dimorphism in the apertural notch of a new species of gemmula (Gastropoda, Turridae). *J Mollus Stud.* **57**: 205 - 209.
272. Kawai, S., Kobayashi, M., and Kaneko, H. 2003. Effects of endocrine active substances in wildlife species: Genetic, biochemical, and physiological factors in variable susceptibility to endocrine disruptors. *Pure Appl Chem.* **75**: 2335 - 2341.
273. Kendall, C., and Bard, S. 2007. A comparison of the occurrence of tributyltin-induced imposex in dogwhelks (*Nucella lapillus*) in Halifax (1995-2006). *In* Proceedings of the 34th Annual Toxicity Workshop (September 30th to October 3rd, 2007), Halifax, Nova Scotia, pp 74.
274. Ketata, I., Denier, X., Hamza-Chaffai, A., and Minier, C. 2008. Endocrine-related reproductive effects in molluscs. *Comp Biochem Phys C.* **147**: 261 - 270.
275. Kiran, Y. V., and Anil, A. C. 1999. Record of imposex in *Cronia konkanensis* (Gastropoda, Muricidae) from Indian waters. *Mar Environ Res.* **48**: 123 - 130.
276. Kittridge, A., Reber, J., and McClellan-Green, P. 2004. Recognition and response to sex pheromones in *Ilyanassa obsoleta* following exposure to TBT. *In* SETAC 25th Annual Meeting (November 14 – 18, 2004), Portland, Oregon, USA.
277. Kohn, A. J., and Almasi, K. N. 1993. Imposex in Australian *Conus*. *J Mar Biol Assoc UK.* **73**: 241 - 244.
278. Kure, L. K., and Depledge, M. H. 1994. Accumulation of organotin in *Littorina littorea* and *Mya arenaria* from Danish coastal waters. *Environ Pollut.* **84**: 149 - 157.
279. Kuwamura, T., Fukao, R., Nishida, M., Wada, K., and Yanagisawa, Y. 1983. Reproductive biology of the gastropod *Strombus luhuanus* (Strombidae). *Publ Seto Mar Biol Lab.* **28**: 433 - 443.
280. Lagadic, L. 2002. Biomarkers: useful tools for the monitoring of aquatic environments. *Rev Med Vet-Toulouse.* **153**: 581 - 588.
281. Lahhib, Y., Trigui El-Menif, N., Le Pennec, M., and Boumaiza, M. 2004. Données sur le cycle reproducteur du Mollusque Gasteropode *Hexaplex trunculus* (Linne, 1758) de la Lagune de Bizerte (Tunisia). *B Soc Zool Fr.* **129**: 407 - 418.
282. Lahbib, Y., Labidli, S., Le Pennec, M., Flower, R., and El-Menif, N. T. 2007. Morphological expression and different stages of imposex in *Hexaplex trunculus* (Neogastropoda: Muricidae) from Tunisian coasts. *Cah Biol Mar.* **48**: 315 - 326.
283. Lahbib, Y., Abidli, S., and El Menif, N. T. 2008a. Imposex level and penis malformation in *Hexaplex trunculus* from the Tunisian coast. *Am Malacol Bull.* **24**: 79 - 89.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

284. Lahbib, Y., Boumaiza, M., and El Menif, N. T. 2008b. Imposex expression in *Hexaplex trunculus* from the North Tunis Lake transplanted to Bizerta channel (Tunisia). *Ecol Indic.* **8**: 239 - 245.
285. Lahbib, Y., Abidli, S., Chiffolleau, J. F., Averty, B., and El Menif, N. T. 2009. First record of butyltin body burden and imposex status in *Hexaplex trunculus* (L.) along the Tunisian coast. *J Environ Monitor.* **11**: 1253 - 1258.
286. Lamotte, G. 1996. Les méssaventures du pourpre *Nucella lapillus* (Linné, 1758) au cours des siècles. *Naturalistes Belges.* **77**: 33 - 38.
287. Langston, W. J., Bryan, G. W., Burt, G. R., and Gibbs, P. E. 1990. Assessing the impact of tin and TBT in estuaries and coastal regions. *Funct Ecol.* **4**: 433 - 443.
288. LeBlanc, G. A., Gooding, M. P., and Sternberg, R. M. 2005. Testosterone-fatty acid esterification: A unique target for the endocrine toxicity of tributyltin to gastropods. *Integr Comp Biol.* **45**: 81 - 87.
289. Lee, C. C., Jhuang, Y. F., Liu, L. L., Hsieh, C. Y., Chen, C. S., and Tien, C. J. 2009. The major source and impact of phenyltin contamination on freshwater aquaculture clam *Corbicula fluminea* and wild golden apple snail *Pomacea canaliculata*. *Environ Chem.* **6**: 341 - 349.
290. Lemghich, I., and Benajiba, M. H. 2007. Survey of imposex in prosobranchs mollusks along the northern Mediterranean coast of Morocco. *Ecol Indic.* **7**: 209 - 214.
291. Leung, K. M. Y., Morgan, I. J., Wu, R. S. S., Lau, T.C., Svavarsson, J., and Furness, R.W. 2001. Growth rate as a factor confounding the use of the dogwhelk *Nucella lapillus* as biomonitor of heavy metal contamination. *Mar Ecol Prog Ser.* **221**: 145 - 159.
292. Leung, K. M. Y., Dewhurst, R. E., Halldorsson, H., and Svavarsson, K. 2005. Metallothioneins and trace metals in the dogwhelk *Nucella lapillus* (L.) collected from Icelandic coasts. *Mar Pollut Bull.* **51**: 729 - 737.
293. Leung, K. M. Y., Kwong, R. P. Y., Ng, W. C., Horiguchi, T., Qiu, J. W., Yang, R. Q., Song, M. Y., Jiang, G. B., Zheng, G. J., and Lam, P. K. S. 2006. Ecological risk assessments of endocrine disrupting organotin compounds using marine neogastropods in Hong Kong. *Chemosphere.* **65**: 922 - 938.
294. Limaverde, A. M., Wagener, A., Fernandez, M. A., Scofield, A. D. L., and Coutinho, R. 2007. *Stramonita haemastoma* as a bioindicator for organotin contamination in coastal environments. *Mar Environ Res.* **64**: 384 - 398.
295. Liu, L. L., and Chen, J. L. 1992. Sex ratio changes of the oyster drill, *Thais clavigera* Kuster in Taiwan. *J Fish Soc Taiwan.* **19**: 85 - 88.
296. Liu, L. L., and Suen, I. J. 1996a. Organotins promoting the development of imposex in the oyster drill *Thais clavigera*. *J Fish Soc Taiwan.* **23**: 149 - 154.
297. Liu, L. L., and Suen, I. J. 1996b. Prosobranch gastropod imposex in the west coast of Taiwan. *Jap J Malacol (Venus).* **55**: 207 - 214.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

298. Liu, L. L., Chen, S. J., Peng, W. Y., and Hung, J. J. 1997. Organotin concentrations in three intertidal neogastropods from the coastal waters of Taiwan. *Environ Pollut.* **98**: 113 - 118.
299. Liu, W. H., Chiu, Y. W., Huang, D. J., Liu, M. Y., Lee, C. C., and Liu, L. L. 2006. Imposex in the golden apple snail *Pomacea canaliculata* in Taiwan. *Sci Total Environ.* **371**: 138 -143.
300. Lu, M., Horiguchi, T., Shiraishi, H., Shibata, Y., Abo, M., Okubo, A., and Yamazaki, S. 2001. Identification and quantification of steroid hormones in marine gastropods by GC/MS. *Bunseki Kagaku*, **50**: 247 - 255. (Abstract only)
301. Lu, M., Horiguchi, T., Shiraishi, H., Shibata, Y., Abo, M., Okubo, A., and Yamazaki, S. 2002. Determination of testosterone in an individual shell of *Thais clavigera* by ELISA. *Bunseki Kagaku*. **51**: 21 - 27. (Abstract only)
302. Lyssimachou, A., Bachmann, J., and Porte, C. 2008. Short-term exposure to the organotin compound triphenyltin modulates esterified steroid levels in females of *Marisa cornuarietis*. *Aquat Toxicol.* **89**: 129 - 135.
303. Lyssimachou, A., Ramon, M., and Porte, C. 2009a. Comparative study on the metabolism of the androgen precursor androstenedione in two gastropod species: *In vitro* alterations by TBT and TPT. *Comp Biochem Phys C.* **149**: 409 - 413.
304. Lyssimachou, A., Navarro, J.C., Bachmann, J., and Porte, C. 2009b. Triphenyltin alters lipid homeostasis in females of the ramshorn snail *Marisa cornuarietis*. *Environ Pollut.* **157**: 1714 - 1720.
305. Mallon, P., and Manga, N. 2007. The use of imposex in *Nucella lapillus* to assess tributyltin pollution in Carlingford Lough. *J Environ Health Res.* **6**: 89 - 99.
306. Mann, R., Harding, J. M., and Westcott, E. 2006. Occurrence of imposex and seasonal patterns of gametogenesis in the invading veined rapana whelk *Rapana venosa* from Chesapeake Bay, USA. *Mar Ecol Prog Series.* **310**: 129 - 138.
307. Maran, C., Centanni, E., Pellizzato, F., and Pavoni, B. 2006. Organochlorine compounds (polychlorinated biphenyls and pesticides) and polycyclic aromatic hydrocarbons in populations of *Hexaplex trunculus* affected by imposex in the Lagoon of Venice, Italy. *Environ Toxicol Chem.* **25**: 486 - 495.
308. Marshall, D. J., and Rajkumar, A. 2003. Imposex in the indigenous *Nassarius kraussianus* (Mollusca: Neogastropoda) from South African harbours. *Mar Pollut Bull.* **46**: 1150 -1155.
309. Martín, P. R. 2002. Evidence for parthenogenesis and natural imposex in the Patagonian freshwater snail *Heleobia hatcheri* (Gastropoda: Hydrobiidae). *J Mollus Stud.* **68**: 291 - 295.
310. Martoja, M., and Bouquegneau, J. M. 1988. *Murex trunculus*: Un nouveau cas de pseudo-hermaphrodisme chez un gasteropode prosobranch. *Bulletin de la Société de Liege.* **57**: 45 - 58.
311. Matthiessen, P., and Gibbs, P. E. 1998. Critical appraisal of the evidence for tributyltin-mediated endocrine disruption in mollusks. *Environ Toxicol Chem.* **17**: 37 - 43.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

312. Matthiessen, P., Waldock, R., Train, J. E., Milton, S., and Scrope-Howe, S. 1991. Changes in periwinkle (*Littorina littorea*) populations following the ban on TBT-based antifoulings on small boats. ICES C.M. pp. E5 1 - 15.
313. Matthiessen, P., Waldock, R., Thain, J. E., Waite, M. E., and Scropehowe, S. 1995. Changes in periwinkle (*Littorina littorea*) populations following the ban on TBT-based antifoulings on small boats in the United Kingdom. *Ecotox Environ Safe.* **30**: 180 - 194.
314. Matthiessen, P., Reynoldson, T., Billingham, Z., Brassard, D. W., Cameron, P., Chandler, G. T., Davies, I. M., Horiguchi, T., Mount, D. R., Oehlmann, J., Pottinger, T. G., Sibley, P. K., Thompson, H. M., and Vethaak, A. D. 1999. Field assessment for endocrine disruption in invertebrates (Chapter 4). *In* Society of Environmental Toxicology and Chemistry, vol. Endocrine Disruption in Invertebrates: Endocrinology, testing, and Assessment (*Edited by* P. L. deFur, M. Crane, C. G. Ingersoll and L. J. Tattersfield). SETAC Technical Publication Series. pp. 199 - 279.
315. McClellan-Green, P. 2001. Impact of co-exposure to TBT and PAHs on steroid metabolism in mudsnails (*Ilyanassa obsoleta*). *In* SETAC 22nd Meeting (November 11 – 15, 2001), Baltimore, Maryland.
316. McClellan-Green, P. 2003. Effects of imposex status and contaminant exposure on steroid metabolism in mud snails (*Ilyanassa obsoleta*). *In* SETAC 24th Annual Meeting (November 9 – 13, 2003), Austin Texas.
317. McClellan-Green, P., and Robbins, J. 2000. Effects of TBT and 3-MC co-exposure on cytochrome P450 expression and activity in marine organisms. *Mar Environ Res.* **50**: 243 - 243.
318. McClellan-Green, P., Romano, J., and Rittschof, D. 2006. Imposex induction in the mud snail, *Ilyanassa obsoleta* by three tin compounds. *B Environ Contam Tox.* **76**: 581 -588.
319. McClellan-Green, P., Romano, J., and Oberdörster, E. 2007. Does gender really matter in contaminant exposure? A case study using invertebrate models. *Environ Res.* **104**: 183 - 191.
320. McMaster, M. E. 2001. A review of the evidence for endocrine disruption in Canadian aquatic ecosystems. *Water Qual Res J Can.* **36**: 215 - 231.
321. Meador, J. P., Collier, T. K., and Stein, J. E. 2002. Determination of a tissue and sediment threshold for tributyltin to protect prey species of juvenile salmonids listed under the US Endangered Species Act. *Aquat Conserv.* **12**: 539 - 551.
322. Meirelles, C. A. O., Castro, I. B., and Pinheiro, J. C. L. 2007. A first record of biphallia in imposed female of *Leucozonias nassa* (Caenogastropoda: Fasciolaridae). *J Mar Biol Assoc UK, Biodiversity Records*: 1 - 3.
323. Meng, P., Han, B. C., Hsu, W. K., Chuang, A., Cheng, J. H., and Hung, T. C. 2003. Bioaccumulation and elimination of tributyltin and triphenyltin in oysters and rock shells in Taiwan. *J Food Drug Anal.* **11**: 96 - 101.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

324. Meng, P. J., Wang, J. T., Liu, L. L., Chen, M. H., and Hung, T. C. 2005. Toxicity and bioaccumulation of tributyltin and triphenyltin on oysters and rock shells collected from Taiwan mariculture area. *Sci Total Environ.* **349**: 140 - 149.
325. Meng, P. J., Lin, J., and Liu, L. L. 2009. Aquatic organotin pollution in Taiwan. *J Environ Manage.* **90**: S8 - S15.
326. Mensink, B. P., Ten Hallers-Tjabbes, C. C., Kralt, J., Freriks, I. L., and Boon, J. P. 1996a. Assessment of imposex in the common whelk, *Buccinum undatum* (L.) from the eastern Scheldt, the Netherlands. *Mar Environ Res.* **41**: 315 - 325.
327. Mensink, B. P., Everaarts, J. M., Kralt, H., TenHallersTjabbes, C. C., and Boon, J. P. 1996b. Tributyltin exposure in early life stages induces the development of male sexual characteristics in the common whelk, *Buccinum undatum*. *Mar Environ Res.* **42**: 151 -154.
328. Mensink, B. P., Boon, J. P., Ten Hallers-Tjabbes, C. C., van Hattum, B., and Koeman, J. H. 1997. Bioaccumulation of organotin compounds and imposex occurrence in a marine food chain (eastern Scheldt, the Netherlands). *Environ Technol.* **18**: 1235 - 1244.
329. Mensink, B. P., Fischer, C. V., Cadee, G. C., Fonds, M., Ten Hallers-Tjabbes, C. C., and Boon, J. P. 2000. Shell damage and mortality in the common whelk *Buccinum undatum* caused by beam trawl fishery. *J Sea Res.* **43**: 53 - 64.
330. Mensink, B. P., Kralt, H., Vethaak, A. D., Ten Hallers-Tjabbes, C. C., Koeman, J. H., van Hattum, B., and Boon, J. P. 2002. Imposex induction in laboratory reared juvenile *Buccinum undatum* by tributyltin (TBT). *Environ Toxicol Phar.* **11**: 49 - 65.
331. Miller, E. R., and Pondick, J. S. 1984. Heavy metal levels in *Nucella lapillus* (Gastropoda, Prosobranchia) from sites with normal and penis-bearing females from New England. *B Environ Contam Tox.* **33**: 612 - 620.
332. Miller, K. L., Fernandes, T. F., and Read, P. A. 1999. The recovery of populations of dogwhelks suffering from imposex in the Firth of Forth 1987-1997/98. *Environ Pollut.* **106**: 183 - 192.
333. Miloslavich, P., Penchaszadeh, P. E., and Bigatti, G. 2007. Imposex in gastropods from Venezuela. *Cienc Mar.* **33**: 319 - 324.
334. Minchin, A., and Davies, I. M. 1998a. Effect of freezing on penis length in *Nucella lapillus* (L.). *In* Marine Laboratory Aberdeen Report. Marine Laboratory, Aberdeen. pp. 12pp.
335. Minchin, A., and Davies, I. M. 1998b. Effect of sample handling on Imposex measurement in the dogwhelk *Nucella lapillus*. *In* Marine Laboratory Aberdeen Report. Marine Laboratory, Aberdeen. pp. 10pp.
336. Minchin, A., and Davies, I. M. 1999a. Effect of freezing on the length of the penis in *Nucella lapillus* (L.). *J Environ Monitor.* **1**: 203 - 205.
337. Minchin, A., and Davies, I. M. 1999b. Imposex measurement in the dogwhelk *Nucella lapillus* (L.) - Temporal aspects of specimen preparation. *J Environ Monitor.* **1**: 239 - 241.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

338. Minchin, A., and Minchin, D. 1997. Dispersal of TBT from a fishing port determined using the dogwhelk *Nucella lapillus* as an indicator. *Environ Technol.* **18**: 1225 - 1234.
339. Minchin, A., and Davies, I. M. 2000a. BEQUALM and QUASIMEME workshop on imposex and intersex in marine snails, *Nucella lapillus*, *Buccinum undatum* and *Littorina littorea*. In Report on the TBT Training Workshop - Marine Laboratory Aberdeen Report. Marine Laboratory, Aberdeen. pp. 22pp.
340. Minchin, A., and Davies, I. M. 2000b. SOTEAG rocky shore monitoring programme. TBT contamination in Sullom Voe, Shetland. 1999 Dogwhelk Survey. Fisheries Research Services. pp. 35pp.
341. Minchin, A., Davies, I. M., Pymm, H., and Grewar, G. N. 1998. Survey of imposex in the North Sea CW0825: Interim report for August-December 1998. Fisheries Research Services. pp. 7pp.
342. Minchin, A., Davies, I. M., Pymm, H., and Grewar, G. N. 1999. North Sea imposex survey: CW0825 August 1998 - July 1999 - Final Report. Fisheries Research Services. pp. 198 pp.
343. Minchin, D. 2003. Monitoring of tributyltin contamination in six marine inlets using biological indicators. *Mar Environ Health Ser.* **6**: 1 - 15.
344. Minchin, D., Oehlmann, J., Duggan, C. B., Stroben, E., and Keatinge, M. 1995. Marine TBT antifouling contamination in Ireland, following legislation in 1987. *Mar Pollut Bull.* **30**: 633 - 639.
345. Minchin, D., Stroben, E., Oehlmann, J., Bauer, B., Duggan, C. B., and Keatinge, M. 1996. Biological indicators used to map organotin contamination in Cork Harbour, Ireland. *Mar Pollut Bull.* **32**: 188 - 195.
346. Minchin, D., Bauer, B., Oehlmann, J., Schulte-Oehlmann, U., and Duggan, C. B. 1997. Biological indicators used to map organotin contamination from a fishing port, Killybegs, Ireland. *Mar Pollut Bull.* **34**: 235 - 243.
347. Miranda, R. M., Fujinaga, K., Ilano, A. S., and Nakao, S. 2007. Incidence of imposex and parasite infection in *Neptunea arthritica* at Saroma Lagoon and their relationship. *Aquat Sci.* **55**: 9 - 15.
348. Miranda, R. M., Fujinaga, K., and Nakao, S. 2008. Age and growth of *Neptunea arthritica* estimated from growth marks in the operculum. *Mar Biol Res.* **4**: 224 - 235.
349. Miranda, R. M., Fujinaga, K., Ilano, A. S., and Nakao, S. 2009. Effects of imposex and parasite infection on the reproductive features of the Neptune whelk *Neptunea arthritica*. *Mar Biol Res.* **5**: 268 - 277.
350. Miyamoto, J., and Klein, W. 1998. Environmental exposure, species differences and risk assessment. *Pure Appl Chem.* **70**: 1829 - 1845.
351. Morcillo, Y., and Porte, C. 1998. Monitoring of organotin compounds and their effects in marine molluscs. *Trac-Trends Anal Chem.* **17**: 109 - 116.
352. Morcillo, Y., and Porte, C. 1999. Evidence of endocrine disruption in the imposex-affected gastropod *Bolinus brandaris*. *Environ Res.* **81**: 349 - 354.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

353. Morcillo, Y., Borghi, V., and Porte, C. 1997. Survey of organotin compounds in the western Mediterranean using molluscs and fish as sentinel organisms. *Arch Environ Con Tox.* **32**: 198 - 203.
354. Morgan, E., Murphy, J., and Lyons, R. 1998. Imposex in *Nucella lapillus* from TBT contamination in south and south-west Wales: A continuing problem around ports. *Mar Pollut Bull.* **36**: 840 - 843.
355. Morishita, F., Minakata, H., Takeshige, K., Furukawa, Y., Takata, T., Matsushima, O., Mukai, S. T., Saleuddin, A. S. M., and Horiguchi, T. 2006. Novel excitatory neuropeptides isolated from a prosobranch gastropod, *Thais clavigera*: The molluscan counterpart of the annelidan GGNG peptides. *Peptides.* **27**: 483 - 492.
356. Morley, N. J . 2006. Parasitism as a source of potential distortion in studies on endocrine disrupting chemicals in molluscs. *Mar Pollut Bull.* **52**: 1330 - 1332.
357. Nakano, D., and Nishiwaki, S. 1992. Local Variation of Imposex in *Thais clavigera* (Prosobranchia: Muricidae). *Jap J Malacol (Venus).* **51**: 79 - 87.
358. Nakata, H., Kobayashi, S., Hirayama, Y., and Sakai, Y. 2004. Contamination of organochlorines, polycyclic aromatic hydrocarbons and organotin in coastal shellfishes from the Ariake Sea and the effects of TBT on imposex induction in rock shells. *Nippon Suisan Gakk.* **70**: 555 - 566. (Abstract only)
359. Nehring, S. 2000. Long-term changes in Prosobranchia (Gastropoda) abundances on the German North Sea coast: The role of the anti-fouling biocide tributyltin. *J Sea Res.* **43**: 151 - 165.
360. Nias, D. J., McKillup, S. C., and Edyvane, K. S. 1993. Imposex in *Lepsiella vinosa* from southern Australia. *Mar Pollut Bull.* **26**: 380 - 384.
361. Nichols, C. J. 2000. Tributyltin pollution: The catastrophe that never happened. *Mar Pollut Bull.* **40**: 713 - 713.
362. Nicholson, G. J., and Evans, S. M. 1997. Anthropogenic impacts on the stocks of the common whelk *Buccinum undatum* (L). *Mar Environ Res.* **44**: 305 - 314.
363. Nicholson, G. J., Evans, S. M., Palmer, N., and Smith, R. 1998. The value of imposex in the dogwhelk *Nucella lapillus* and the common whelk *Buccinum undatum* as indicators of TBT contamination. *Invertebr Reprod Dev.* **34**: 289 - 300.
364. Nishikawa, J. 2006. Imposex in marine gastropods may be caused by binding of organotins to Retinoid X Receptor. *Mar Biol.* **149**: 117 - 124.
365. Nishikawa, J., Mamiya, S., Kanayama, T., Nishikawa, T., Shiraishi, F., and Horiguchi, T. 2004. Involvement of the Retinoid X Receptor in the development of imposex caused by organotins in gastropods. *Environ Sci Technol.* **38**: 6271 - 6276.
366. Nohara, M. 1999. Variation and abnormality of genital system in *Littorina sitkana philippi* (Mollusca, Gastropoda) in Northern Japan. *Zool Sci.* **16**: 827 - 838.
367. Oberdörster, E. 1997. Sublethal effects of tributyltin on aquatic invertebrate models: Steroid metabolism, protein alterations and physiological responses. PhD. Thesis, *Duke University*, North Carolina.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

368. Oberdörster, E. 2001. Peptide hormones versus steroid hormones: Case studies from snail and turtle populations. *Ann NY Acad Sci.* **948**: 75 - 79.
369. Oberdörster, E., and Cheek, A. O. 2000. Gender benders at the beach: Endocrine disruption in marine and estuarine organisms. *Environ Toxicol Chem.* **20**: 23 - 36.
370. Oberdörster, E., and McClellan-Green, P. 2000. The neuropeptide APGWamide induces imposex in the mud snail, *Ilyanassa obsoleta*. *Peptides.* **21**: 1323 - 1330.
371. Oberdörster, E., and McClellan-Green, P. 2002. Mechanisms of imposex induction in the mud snail, *Ilyanassa obsoleta*: TBT as a neurotoxin and aromatase inhibitor. *Mar Environ Res.* **54**: 715 - 718.
372. Oberdörster, E., and McClellan-Green, P. 2003. Imposex snails have elevated neuropeptide hormone levels when dosed with TBT or induced in the field. *In SETAC 24th Annual Meeting* (November 9 – 13, 2003), Austin Texas.
373. Oberdörster, E., and McClellan-Green, P. 2004. Expression of the peptide hormone APGWamide in imposex and normal snails: A neurotoxicity mechanism for imposex induction. *In Annual Meeting of the Society for Integrative and Comparative Biology*, New Orleans. **43**: 893.
374. Oberdörster, E., Rittschof, D., and McClellan-Green, P. 1998. Testosterone metabolism in imposex and normal *Ilyanassa obsoleta*: Comparison of field and TBTA CI-induced imposex. *Mar Pollut Bull.* **36**: 144 - 151.
375. Oberdörster, E., Romano, J., and McClellan-Green, P. 2005. The neuropeptide APGWamide as a penis morphogenic factor (PMF) in gastropod mollusks. *Integr Comp Biol.* **45**: 28 - 32.
376. Oehlmann, J. 1998. Untersuchungen zum Einsatz von Pathomorphosen der ableitenden Geschlechtswege von Vorderkiemerschnecken (Gastropoda: Prosobranchia) für ein biologisches TBT-Effektmonitoring [Habilitation thesis]. Zittau, Germany: *International Graduate School Zittau*. 162 pp.
377. Oehlmann, J. 2004. Biological effects of contaminants: Use of intersex in the periwinkle (*Littorina littorea*) as a biomarker of tributyltin pollution. *ICES Techniques in Marine Environmental Sciences.* **37**: 1 - 22.
378. Oehlmann, J., and Bettin, C. 1996. Tributyltin-induced imposex and the role of steroids in marine snails. *Malacol Rev Suppl - Molluscan Reproduction.* **6**: 157 - 161.
379. Oehlmann, J., and Schulte-Oehlmann, U. 2003a. Endocrine disruption in invertebrates. *Pure Appl Chem.* **75**: 2207 - 2218.
380. Oehlmann, J., and Schulte-Oehlmann, U. 2003b. Molluscs as bioindicators. *In Bioindicators and biomonitors: Principles, concepts and applications*" (Edited by B. A. Markert, A. M. Breure, H. G. Zechmeister), Elsevier, Amsterdam, pp. 577 - 635.
381. Oehlmann, J., Stroben, E., and Fioroni, P. 1991. The morphological expression of imposex in *Nucella lapillus* (L.) (Gastropoda, Muricidae). *J Mollus Stud.* **57**: 375 - 390.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

382. Oehlmann, J., Stroben, E., and Fioroni, P. 1992a. The rough tingle *Ocenebra erinacea* (Neogastropoda, Muricidae) – An exhibitor of imposex in comparison to *Nucella lapillus*. *Helgolander Meeresun.* **46**: 311 - 328.
383. Oehlmann, J., Stroben, E., Bettin, C., and Fioroni, P. 1992b. Hormonal disorders and tributyltin-induced imposex in marine snails. *In* Proceedings of the 27th European Marine Biology Symposium (*Edited by* J.C. Aldrich), Dublin, Ireland. pp. 301 - 305.
384. Oehlmann, J., Stroben, E., and Fioroni, P. 1993. Fréquence et degré d'expression du pseudohermaphrodisme chez quelques Prosobranches Sténoglosses des côtes françaises (surtout de la baie de Morlaix et de la Manche). 2. Situation jusqu' au printemps de 1992*. *Cah Biol Mar.* **34**: 343 - 362.
385. Oehlmann, J., Liebe, S., Watermann, B., Stroben, E., Fioroni, P., and Deutsch, U. 1994a. New perspectives of sensitivity of Littorinids to TBT pollution. *Cah Biol Mar.* **35**: 254 - 255.
386. Oehlmann, J., Schulte-Oehlmann, U., Fioroni, P., and Stroben, E. 1994b. Probable extinction of prosobranch populations as a result of TBT pollution in the Bay of Morlaix. *Cah Biol Mar.* **35**: 255 - 256.
387. Oehlmann, J., Stroben, E., Schulte-Oehlmann, U., Bauer, B., Fioroni, P., and Markert, B. 1996a. Tributyltin biomonitoring using prosobranchs as sentinel organisms. *Fresen J Anal Chem.* **354**: 540 - 545.
388. Oehlmann, J., Stroben, E., and Fioroni, P. 1996b. New facts about tributyltin-induced imposex in Prosobranchs: General aspects. *Malacol Rev Suppl - Molluscan Reproduction.* **6**: 149 - 156.
389. Oehlmann, J., Fioroni, P., Stroben, E., and Markert, B. 1996c. Tributyltin (TBT) effects on *Ocenebrina aciculata* (Gastropoda: Muricidae): Imposex development, sterilization, sex change and population decline. *Sci Total Environ.* **188**: 205 - 223.
390. Oehlmann, J., Schulte-Oehlmann, U., Stroben, E., Bauer, B., Bettin, C., Fioroni, P., and Markert, B. 1996d. Androgenic effects of organotin compounds in Molluscs. Umweltbundesamt, Berlin.
391. Oehlmann, J., Stroben, E., Schulte-Oehlmann, U., and Bauer, B. 1998a. Imposex development in response to TBT pollution in *Hinia incrassata* (Strom, 1768) (Prosobranchia, Stenoglossa). *Aquat Toxicol.* **43**: 239 - 260.
392. Oehlmann, J., Bauer, B., Minchin, D., Schulte-Oehlmann, U., Fioroni, P., and Markert, B. 1998b. Imposex in *Nucella lapillus* and intersex in *Littorina littorea*: interspecific comparison of two TBT-induced effects and their geographical uniformity. *Hydrobiol.* **378**: 199 - 213.
393. Oehlmann, J., Schulte-Oehlmann, U., Tillmann, M., and Markert, B. 2000. Effects of endocrine disruptors on prosobranch snails (Mollusca: Gastropoda) in the laboratory. Part I: Bisphenol A and octylphenol as xeno-estrogens. *Ecotoxicol.* **9**: 383 - 397.
394. Oehlmann, J., Schulte-Oehlmann, U., Bachmann, J., Oetken, M., Lutz, I., Kloas, W., and Ternes, T. A. 2006. Bisphenol A induces superfeminization in the ramshorn snail *Marisa cornuarietis* (Gastropoda: Prosobranchia) at environmentally relevant concentrations. *Environ Health Persp.* **114**: 127 - 133.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

395. Oehlmann, J., Di Benedetto, P., Tillmann, M., Duft, M., Oetken, M., and Schulte-Oehlmann, U. 2007. Endocrine disruption in prosobranch molluscs: Evidence and ecological relevance. *Ecotoxicol.* **16**: 29 - 43.
396. Oetken, M., Bachmann, J., Schulte-Oehlmann, U., and Oehlmann, J. 2004. Evidence for endocrine disruption in invertebrates. *In* *Int Rev Cytol*, vol. 236. International Review of Cytology- A Survey of Cell Biology, pp. 1- 44.
397. Oliveira, I. B., Richardson, C. A., Sousa, A. C., Takahashi, S., Tanabe, S., and Barroso, C. M. 2009. Spatial and temporal evolution of imposex in dogwhelk *Nucella lapillus* (L.) populations from North Wales, UK. *J Environ Monitor.* **11**: 1462 - 1468.
398. Omae, I. 2003. Organotin antifouling paints and their alternatives. *Appl Organomet Chem.* **17**: 81 - 105.
399. Osorio, C. R., and Huaquín, L. G. 2003. Alteración de la sexualidad de *Acanthina monodon* (Pallas, 1744) (Gastropoda: Muricidae) en el litoral de Chile central, inducida por compuestos organoestañosos. *Ciencia Tecnología del Mar.* **26**: 97 - 107.
400. OSPAR 2008. JAMP Guidelines for Contaminant-Specific Biological Effects (OSPAR Agreement 2008-09). *In* OSPAR Convention for the Protection of the Marine Environment of the North-East Atlantic.
401. Pandey, E., and Evans, S. M. 1996. The incidence of imposex in gastropods from Indonesian coastal waters. *Asian Mar Biol.* **13**: 53 - 61.
402. Pattisina, L. A. 1991. Development of a protocol for imposex measures on tropical neogastropod molluscs. MSc. Thesis, *University of Victoria*, British Columbia.
403. Pavoni, B., Centanni, E., Valcanover, S., Fasolato, M., Ceccato, S., and Tagliapietra, D. 2007. Imposex levels and concentrations of organotin compounds (TBT and its metabolites) in *Nassarius nitidus* from the Lagoon of Venice. *Mar Pollut Bull.* **55**: 505 - 511.
404. Pellizzato, F., Centanni, E., Marin, M. G., Moschino, V., and Pavoni, B. 2004. Concentrations of organotin compounds and imposex in the gastropod *Hexaplex trunculus* from the Lagoon of Venice. *Sci Total Environ.* **332**: 89 - 100.
405. Peña, J., and Kendall, Y. M. 1989. Imposex en *Nucella lapillus* como indicador de contaminación par TBT en el norte de la Peninsula Iberica. *In* *Bentos VI: Proceedings of Simposio Iberico de Estudio del Bentos Marino*, vol. 6, Palma de Mallorca. pp. 455 - 463.
406. Penchaszadeh, P. E., Averbuj, A., and Cledon, M. 2001. Imposex in gastropods from Argentina (south-western Atlantic). *Mar Pollut Bull.* **42**: 790 - 791.
407. Penchaszadeh, P. E., Antelo, C. S., Zabala, S., and Bigatti, G. 2009. Reproduction and imposex in the edible snail *Adelomelon ancilla* from northern Patagonia, Argentina. *Mar Biol.* **156**: 1929 - 1939.
408. Pessoa, M. F., Fernando, A., and Oliveira, J. S. 2001. Use of imposex (Pseudohermaphroditism) as indicator of the occurrence of organotin compounds in Portuguese coastal waters - Sado and Mira Estuaries. *Environ Toxicol.* **16**: 234 - 241.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

409. Phillip, O. S. 2000. The relationship between masculinized female conch (*Strombus gigas*) and tributyltin-based antifouling paint in coastal waters of the British Virgin Islands. MSc. Thesis, *University of Plymouth*, United Kingdom.
410. Picado, A., Bebianno, M. J., Costa, M. H., Ferreira, A., and Vale, C. 2007. Biomarkers: A strategic tool in the assessment of environmental quality of coastal waters. *Hydrobiol.* **587**: 79 - 87.
411. Pinheiro, F. M., Fernandez, M. A., Fragoso, M. R., Quadros, J. P., Camillo, E., and Dos Santos, F. A. 2006. Assessing the impacts of organotin compounds in Ilha Grande Bay, (Rio de Janeiro, Brazil): Imposex and a multiple-source dispersion model. *J Coastal Res.* **39**: 1383 - 1388.
412. Plejdrup, J. K., Simonsen, V., Pertoldi, C., Schoyen, M., and Bayley, M. 2006. Genetic and morphological diversity in populations of *Nucella lapillus* (L.; Neogastropoda) in response to tributyltin contamination. *Ecotox Environ Safe.* **64**: 146 - 154.
413. Poli, G., Salvat, B., and Streiff, W. 1971. Aspect particulier de la sexualite chez *Ocenebra erinacea*. *Haliotis.* **1**: 29 - 30.
414. Poloczanska, E. S., and Ansell, A. D. 1999. Imposex in the whelks *Buccinum undatum* and *Neptunea antiqua* from the west coast of Scotland. *Mar Environ Res.* **47**: 203 - 212.
415. Pondrick, J. S. 1981. A penis-like structure in female *Nucella lapillus* from New England, USA. *In* 4th Annual Meeting of the Malacological Union. B Am Malacol Union Inc, Fort Lauderdale. **50**: 39 - 40.
416. Pondrick, J. S. 1985. Aspects of the biology of the marine gastropod, *Nucella lapillus* (L.), and its larval *Digenea* (Parasite, Snail, Trematode, New England). PhD. Thesis, *University of Connecticut*, Connecticut.
417. Porte, C., Janer, G., Lorusso, L.C., Ortiz-Zarragoitia, M., Cajaraville, M. P., Fossi, M. C., and Canesi, L. 2006. Endocrine disruptors in marine organisms: Approaches and perspectives. *Comp Biochem Phys C.* **143**: 303 - 315.
418. Power, A. J., and Keegan, B. F. 2001. The significance of imposex levels and TBT contamination in the red whelk, *Neptunea antiqua* (L.) from the offshore Irish Sea. *Mar Pollut Bull.* **42**: 761 - 772.
419. Prime, M., Peharda, M., Jelic, K., Mladineo, I., and Richardson, C. A. 2006. The occurrence of imposex in *Hexaplex trunculus* from the Croatian Adriatic. *Mar Pollut Bull.* **52**: 810 - 812.
420. Prouse, N. J., and Covert, T. J. 1997. Survey of eastern Canada for imposex, a bioindicator of tributyltin (TBT), in the dogwhelk, *Nucella lapillus*. *Can Tech Rep Fish Aquat Sci.* **2163**: 44.
421. Prouse, N. J., and Ellis, D. V. 1997. A baseline survey of dogwhelk (*Nucella lapillus*) imposex in eastern Canada (1995) and interpretation in terms of tributyltin (TBT) contamination. *Environ Technol.* **18**: 1255 - 1264.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

422. Quadros, J. P., Camillo, E., Pinheiro, F., and Fernandez, M. A. S. 2009. Imposex as an indicator of organotin pollution at Rio de Janeiro South Coast: Sepetiba and Ilha Grande Bays. *Thalassas*. **25**: 19 - 30.
423. Queiroz, L. R., Castro, I. B., and Rocha-Barreira, C. A. 2007. New imposex development index (IDI) for *Stramonita haemastoma* (Mollusca: Muricidae): A transplantation experiment in the Brazilian northeast. *J Braz Soc Ecotoxicol*. **2**: 249 - 256.
424. Quintela, M., Barreiro, R., and Ruiz, J. M. 2000. The use of *Nucella lapillus* (L.) transplanted in cages to monitor tributyltin (TBT) pollution. *Sci Total Environ*. **247**: 227 - 237.
425. Quintela, M., Barreiro, R., and Ruiz, J. M. 2002. Dumpton Syndrome reduces the tributyltin (TBT) sterilising effect on *Nucella lapillus* (L.) by limiting the development of the imposed vas deferens. *Mar Environ Res*. **54**: 657 - 660.
426. Quintela, M., Couceiro, L., Ruiz, J. M., and Barreiro, R. 2006a. Discovery of imposex in the gastropod *Cyclope neritea* now invading Galicia (north-west Spain). *J Mar Biol Assoc UK*. **86**: 1171 - 1173.
427. Quintela, M., Couceiro, L., Ruiz, J. M., and Barreiro, R. 2006b. Imposex in the marine gastropod *Nucella lapillus* in Galicia (NW Iberian Peninsula): An eight-year re-survey (1996-2003). *Mar Environ Res*. **62**: S236 - S237.
428. Quintela, M., Couceiro, L., Ruiz, J. M., and Barreiro, R. 2008. Imposex in *Nucella lapillus* (L.): 10 years of monitoring TBT pollution in Galicia (NW Spain). *In* SETAC – 18th European Conference, Warsaw.
429. Ramasamy, M. S., and Murugan, A. 2002. Imposex in Muricid gastropod *Thais biserialis* (Mollusca: Neogastropoda: Muricidae) from Tuticorin harbour, southeast coast of India. *Indian J Mar Sci*. **31**: 243 - 245.
430. Ramón, M., and Amor, M. J. 2001. Increasing imposex in populations of *Bolinus brandaris* (Gastropoda: Muricidae) in the north-western Mediterranean. *Mar Environ Res*. **52**: 463 - 475.
431. Ramón, M., and Amor, M. J. 2002. Reproductive cycle of *Bolinus brandaris* and penis and genital duct size variations in a population affected by imposex. *J Mar Biol Assoc UK*. **82**: 435 - 442.
432. Rato, M., Sousa, A., Quinta, R., Langston, W., and Barroso, C. 2006. Assessment of inshore/offshore tributyltin pollution gradients in the northwest Portugal continental shelf using *Nassarius reticulatus* as a bioindicator. *Environ Toxicol Chem*. **25**: 3213 - 3220.
433. Rato, M., Gaspar, M. B., Takahashi, S., Yano, S., Tanabe, S., and Barroso, C. 2008. Inshore/offshore gradients of imposex and organotin contamination in *Nassarius reticulatus* (L.) along the Portuguese coast. *Mar Pollut Bull*. **56**: 1323 - 1331.
434. Rato, M., Ferreira, N., Santos, J., and Barroso, C. 2009a. Temporal evolution of imposex in *Nassarius reticulatus* (L.) along the Portuguese coast: The efficacy of EC regulation 782/2003. *J Environ Monitor*. **11**: 100 - 107.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

435. Rato, M., Russel-Pinto, F., and Barroso, C. 2009b. Assessment of *Digenean* parasitism in *Nassarius Reticulatus* (L.) along the Portuguese coast: Evaluation of possible impacts on reproduction and imposex expression. *J Parasitol.* **95**: 327 - 336.
436. Reed, S. E. 1992. Histological comparison of masculinized females and androgynous males in the West Indian fighting conch, *Strombus pugilis*. *J Shellfish Res.* **11**: 205.
437. Reed, S. E. 1993a. Gonadal comparison of masculinized females and androgynous males to normal males and females in *Strombus* (Mesogastropoda, Strombidae). *J Shellfish Res.* **12**: 71 - 75.
438. Reed, S. E. 1993b. Size differences between sexes (including masculinized females) in *Strombus pugilis* (Mesogastropoda: Strombidae). *J Shellfish Res.* **12**: 77 - 79.
439. Reed, S. E. 1994. Masculinized females in the genus *Strombus*: Aspects of their biology and possible advantages for mariculture of conch. *In* Queen Conch Biology, Fisheries and Mariculture (*Edited by* R. S. Appeldoorn and B. Rodriguez). pp. 213 - 221.
440. Reed, S. E. 1995. Sexual tripmorphisms in *Strombus luhuanus* Linne, 1758 (Mollusca: Gastropoda) at Shirahama, Japan. *J Shellfish Res.* **14**: 159 - 160.
441. Rees, C. M., Brady, B. A., and Fabris, G. J. 2001. Incidence of imposex in *Thais orbita* from Port Phillip Bay (Victoria, Australia), following 10 years of regulation on use of TBT. *Mar Pollut Bull.* **42**: 873 - 878.
442. Reid, D. G. 1986. *Mainwaringia nevillei*, 1885, a Littorinid genus from Asiatic mangrove forests, and a case protandrous hermaphroditism. *J Mollus Stud.* **52**: 225 - 242.
443. Reijnders, P. J. H., and Brasseur, S. 1997. Xenobiotic induced hormonal and associated developmental disorders in marine organisms and related effects in humans; An overview. *J Clean Technol E T.* **6**: 367 - 380.
444. Reitsema, T. J., and Spickett, J. T. 1999. Imposex in *Morula granulata* as bioindicator of tributyltin (TBT) contamination in the Dampier Archipelago, western Australia. *Mar Pollut Bull.* **39**: 280 - 284.
445. Reitsema, T. J., Thompson, J. A. J., Scholtens, P., and Spickett, J. T. 2002. Further recovery of northeast Pacific neogastropods from imposex related to tributyltin contamination. *Mar Pollut Bull.* **44**: 257 - 261.
446. Rilov, C., Gasith, A., Evans, S. M., and Benayahu, Y. 2000. Unregulated use of TBT-based antifouling paints in Israel (eastern Mediterranean): High contamination and imposex levels in two species of marine gastropods. *Mar Ecol Prog Ser.* **192**: 229 - 238.
447. Rilov, G., Benayahu, Y., and Gasith, A. 2001. Low abundance and skewed population structure of the whelk *Stramonita haemastoma* along the Israeli Mediterranean coast. *Mar Ecol Prog Ser.* **218**: 189 - 202.
448. Ritsema, R., and Laane, R. 1991. Dissolved butyltins in fresh and marine waters of the Netherlands in 1989. *Sci Total Environ.* **105**: 149 - 156.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

449. Ritsema, R., Laane, R., and Donard, O. F. X. 1991. Butyltins in marine waters of the Netherlands in 1988 and 1989 - Concentrations and effects. *Mar Environ Res.* **32**: 243 - 260.
450. Rittschof, D., and McClellan-Green, P. 2005. Molluscs as multidisciplinary models in environment toxicology. *Mar Pollut Bull.* **50**: 369 - 373.
451. Roberts, R. D., and Forrest, B. M. 1999. Minimal impact from long-term dredge spoil disposal at a dispersive site in Tasman Bay, New Zealand. *New Zeal J Mar Fresh.* **33**: 623 - 633.
452. Rodriguez, J. G., Belzunce, M. J., Borja, A., Franco, J., Garmendia, J. M., Gonzalez Herraiz, I., Muxika, I., Solaun, O., Tueros, I., and Valencia, V. 2007. Organotin bioaccumulation and imposex in female *Nassarius reticulatus* and *N. nitidus* in ports and marina areas of the Basque country. *In ICES Annual Conference - ICES CM 2007/session I: 12, Helsinki, Finland.*
453. Rodriguez, J. G., Tueros, I., Borja, A., Franco, J., Alonso, J. I. G., Garmendia, J. M., Muxika, I., Sariago, C., and Valencia, V. 2009a. Butyltin compounds, sterility and imposex assessment in *Nassarius reticulatus* (Linnaeus, 1758), prior to the 2008 European ban on TBT antifouling paints, within Basque ports and along coastal. *Cont Shelf Res.* **29**: 1165 - 1173.
454. Rodriguez, J. G., Borja, A., Franco, J., Alonso, J. I. G., Garmendia, J. M., Muxika, I., Sariago, C., and Valencia, V. 2009b. Imposex and butyltin body burden in *Nassarius nitidus* (Jeffreys, 1867), in coastal waters within the Basque Country (northern Spain). *Sci Total Environ.* **407**: 4333 - 4339.
455. Romano, J., and McClellan-Green, P. 2005. Tissue specific localization of APGWamide in TBT exposed mudsnail, *Ilyanassa obsoleta*. *In SETAC 26th Annual Meeting (November 13 – 17, 2005), Baltimore, Maryland.*
456. Ronis, M. J. J., and Mason, A. Z. 1996. The metabolism of testosterone by the periwinkle (*Littorina littorea*) *in vitro* and *in vivo*: Effects of tributyltin. *Mar Environ Res.* **42**: 161 - 166.
457. Rotchell, J. M., and Ostrander, G. K. 2003. Molecular markers of endocrine disruption in aquatic organisms. *J Toxicol Env Heal B.* **6**: 453 - 495.
458. Ruiz, J. M., Bachelet, G., Caumette, P., and Donard, O. F. X. 1996. Three decades of tributyltin in the coastal environment with emphasis on Arcachon Bay, France. *Environ Pollut.* **93**: 195 - 203.
459. Ruiz, J. M., Quintela, M., and Barreiro, R. 1998a. Ubiquitous imposex and organotin bioaccumulation in gastropods *Nucella lapillus* from Galicia (NW Spain): A possible effect of nearshore shipping. *Mar Ecol Prog Ser.* **164**: 237 - 244.
460. Ruiz, J. M., Quintela, M., and Barreiro, R. 1998b. Tributyltin and imposex: no uncertainty shown. *Mar Ecol Prog Ser.* **170**: 293 - 294.
461. Ruiz, J. M., Barreiro, R., and Gonzalez, J. J. 2005. Biomonitoring organotin pollution with gastropods and mussels. *Mar Ecol Prog Ser.* **287**: 169 - 176.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

462. Santillo, D., Johnston, P., and Langston, W. J. 2002. Tributyltin (TBT) antifoulants: A tale of ships, snails and imposex. *In* The Precautionary Principle in the 20th Century: Late Lessons from Early Warnings (*Edited by* P. Harremoes and D. Gee). Earthscan Publications Limited. pp. 135 - 148.
463. Santos, M. M. 2006. Comments to "Imposex in *Hexaplex* (Trunculariopsis) *trunculus* (Gastropoda: Muricidae) from the Ria Formosa Lagoon (Algarve coast-southern Portugal)". *Mar Pollut Bull.* **52**: 1312 - 1313.
464. Santos, M. M., Vieira, N., and Santos, A. M. 2000. Imposex in the dogwhelk *Nucella lapillus* (L.) along the Portuguese coast. *Mar Pollut Bull.* **40**: 643 - 646.
465. Santos, M. M., Ten Hallers-Tjabbes, C. C., Santos, A. M., and Vieira, N. 2002a. Imposex in *Nucella lapillus*, a bioindicator for TBT contamination: Re-survey along the Portuguese coast to monitor the effectiveness of EU regulation. *J Sea Res.* **48**: 217 -223.
466. Santos, M. M., Ten Hallers-Tjabbes, C. C., Vieira, N., Boon, J. P., and Porte, C. 2002b. Cytochrome P450 differences in normal and imposex-affected female whelk *Buccinum undatum* from the open North Sea. *Mar Environ Res.* **54**: 661 - 665.
467. Santos, M. M., Vieira, N., Reis-Henriques, M. A., Santos, A. M., Gomez-Ariza, J. L., Giraldez, I., and Ten Hallers-Tjabbes, C. C. 2004. Imposex and butyltin contamination off the Oporto Coast (NW Portugal): A possible effect of the discharge of dredged material. *Environ Int.* **30**: 793 - 798.
468. Santos, M. M., Castro, L. F. C., Vieira, M. N., Micael, J., Morabito, R., Massanisso, P., and Reis-Henriques, M. A. 2005. New insights into the mechanism of imposex induction in the dogwhelk *Nucella lapillus*. *Comp Biochem Phys C.* **141**: 101 - 109.
469. Santos, M. M., Reis-Henriques, M. A., Vieira, M. N., and Solé, M. 2006. Triphenyltin and tributyltin, single and in combination, promote imposex in the gastropod *Bolinus brandaris*. *Ecotox Environ Safe.* **64**: 155 - 162.
470. Santos, M. M., Reis-Henriques, M. A., Guillot, R., Lima, D., Franco-Duarte, R., Mendes, I., Queiros, S., and Castro, L. F. C. 2008. Anti-androgenic effects of sewage treatment plant effluents in the prosobranch gastropod *Nucella lapillus*. *Comp Biochem Phys C.* **148**: 87 - 93.
471. Schipper, C. A., Smit, M. G. D., Kaag, N., and Vethaak, A. D. 2008. A weight-of-evidence approach to assessing the ecological impact of organotin pollution in Dutch marine and brackish waters; combining risk prognosis and field monitoring using common periwinkles (*Littorina littorea*). *Mar Environ Res.* **66**: 231 - 239.
472. Schulte-Oehlmann, U., Oehlmann, J., and Stroben, E. 1992. Tributyltin-induced imposex of *Nucella lapillus* on Irish coasts in 1990. *In* Proceedings of the 27th European Marine Biology Symposium. Dublin, Ireland. pp. 307 - 311.
473. Schulte-Oehlmann, U., Fioroni, P., Oehlmann, J., and Stroben, E. 1994. The genital system of *Marisa cornuarietis* (Gastropoda, Ampullariidae) - A morphological and histological analysis. *Zool Beitr.* **36**: 59 - 81.
474. Schulte-Oehlmann, U., Bettin, C., Fioroni, P., Oehlmann, J., and Stroben, E. 1995. *Marisa cornuarietis* (Gastropoda, Prosobranchia) - A potential TBT bioindicator for fresh-water environments. *Ecotoxicol.* **4**: 372 - 384.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

475. Schulte-Oehlmann, U., Oehlmann, J., Fioroni, P., and Bauer, B. 1997. Imposex and reproductive failure in *Hydrobia ulvae* (Gastropoda: Prosobranchia). *Mar Biol.* **128**: 257 - 266.
476. Schulte-Oehlmann, U., Oehlmann, J., Bauer, B., Fioroni, P., and Leffler, U. S. 1998. Toxicokinetic and dynamic aspects of TBT-induced imposex in *Hydrobia ulvae* compared with intersex in *Littorina littorea* (Gastropoda, Prosobranchia). *Hydrobiol.* **378**: 215 - 225.
477. Schulte-Oehlmann, U., Tillmann, M., Markert, B., Oehlmann, J., Watermann, B., and Scherf, S. 2000. Effects of endocrine disruptors on prosobranch snails (Mollusca: Gastropoda) in the laboratory. Part II: Triphenyltin as a xeno-androgen. *Ecotoxicol.* **9**: 399 - 412.
478. Schulte-Oehlmann, U., Tillman, M., Casey, D., Duft, M., Markert, B., and Oehlmann, J. 2001. Xeno-estrogen effects on Prosobranchs (Review). *Originalarbeiten.* **13**: 319 - 333.
479. Sekizawa, J., Suter, G., and Birnbaum, L. 2003. Integrated human and ecological risk assessment: A case study of tributyltin and triphenyltin compounds. *Hum Ecol Risk Assess.* **9**: 325 - 342.
480. Shelmerdine, R. L., Adamson, J., Laurenson, C. H., and Leslie, B. 2007. Size variation of the common whelk, *Buccinum undatum*, over large and small spatial scales: Potential implications for micro-management within the fishery. *Fish Res.* **86**: 201 - 206.
481. Shi, H. H., and Huang, C. J. 2001a. Tributyltin (TBT) pollution and imposex in marine gastropods. *Acta Ecol Sin.* **21**: 1711 - 1717. (Abstract only).
482. Shi, H. H., and Huang, C. J. 2001b. Morphological characters of imposex in marine gastropod. *J Oceanogr Taiwan Strait.* **20**: 552 - 555.
483. Shi, H. H., Huang, C. J., and Xie, W. Y. 2002. Application of imposex in *Thais clavigera* to monitoring of marine organotin compound pollution. *Mar Environ Sci.* **21**: 37 - 41.
484. Shi, H. H., Huang, C. J., Yu, X. J., and Zhu, S. X. 2004a. Imposex and female reproductive failure of *Chicoreus brunneus* and *C. asianus*. *J Trop Oceanogr.* **23**: 82 - 87.
485. Shi, H. H., Huang, C. J., Yu, X. J., Zhu, S. X., and Zhang, Y. B. 2004b. Development of imposex and structural effect on males in three *Nassarius spp.* *Mar Sci (Haiyang Kexue).* **28**: 36 - 41. (Abstract only).
486. Shi, H. H., Huang, C. J., Yu, X. J., and Zhu, S. X. 2005a. An updated scheme of imposex for *Cantharus cecillei* (Gastropoda: Buccinidae) and a new mechanism leading to the sterilization of imposex-affected females. *Mar Biol.* **146**: 717 - 723.
487. Shi, H. H., Huang, C. J., Zhu, S. X., Yu, X. J., and Xie, W. Y. 2005b. Generalized system of imposex and reproductive failure in female gastropods of coastal waters of mainland China. *Mar Ecol Prog Ser.* **304**: 179 - 189.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

488. Shim, W. J., Kahng, S. H., Hong, S. H., Kim, N. S., Kim, S. K., and Shim, J. H. 2000. Imposex in the rock shell, *Thais clavigera*, as evidence of organotin contamination in the marine environment of Korea. *Mar Environ Res.* **49**: 435 - 451.
489. Shim, W. J., Shin, Y. B., Kim, N. S., Oh, J. R., and Jeon, J. K. 2002. Induction of imposex in rock Shell, *Thais clavigera*, exposed to tributyltin and other antagonistic chemicals. *In* SETAC 23rd Annual Meeting (November 16 – 20, 2002), Salt Lake City, Utah.
490. Short, J. W., Rice, S. D., Brodersen, C. C., and Stickle, W. B. 1989. Occurrence of tri-*n*-butyltin-caused imposex in the North-Pacific marine snail *Nucella lima* in Auke Bay, Alaska. *Mar Biol.* **102**: 291 - 297.
491. Siewers, R., and McClelland, P. 2001. Affect of mixed contaminants on reproduction and metabolism in mudsnails (*Ilyanassa obsoleta*). *In* SETAC - 22nd Meeting (November 11- 15, 2001), Baltimore, Maryland.
492. Skarphedinsdottir, H., Olafsdottir, K., Svavarsson, J., and Johannesson, T. 1996. Seasonal fluctuations of tributyltin (TBT) and dibutyltin (DBT) in the dogwhelk, *Nucella lapillus* (L.), and the blue mussel, *Mytilus edulis* L., in Icelandic waters. *Mar Pollut Bull.* **32**: 358 - 361.
493. Sloan, S., and Gagnon, M. M. 2004. Intersex in roe's abalone (*Haliotis roei*) in western Australia. *Mar Pollut Bull.* **49**: 1122 - 1126.
494. Smith, A. J., Thain, J. E., and Barry, J. 2006. Exploring the use of caged *Nucella lapillus* to monitor changes to TBT hotspot areas: A trial in the River Tyne Estuary (UK). *Mar Environ Res.* **62**: 149 - 163.
495. Smith, B. S. 1971. Sexuality in the American mud-snail, *Nassarius obsoletus*. *Proc Malacol Soc Lond.* **39**: 377 - 378.
496. Smith, B. S. 1980. The estuarine mudsnail, *Nassarius obsoletus* - Abnormalities in the reproductive system. *J Mollus Stud.* **46**: 247 - 256.
497. Smith, B. S. 1981a. Reproductive anomalies in stenoglossan snails related to pollution from marinas. *J Appl Toxicol.* **1**: 15 - 21.
498. Smith, B. S. 1981b. Male characteristics on female mud snails caused by antifouling bottom paints. *J Appl Toxicol.* **1**: 22 - 25.
499. Smith, B. S. 1981c. Tributyltin compounds induce male characteristics on female mud snails *Nassarius obsoletus* = *Ilyanassa obsoleta*. *J Appl Toxicol.* **1**: 141 - 144.
500. Smith, B. S. 1981d. Male characteristics in the female *Nassarius obsoletus*: Variations related to locality. *Veliger.* **23**: 212 - 216.
501. Smith, P. J. 1996. Selective decline in imposex levels in the dogwhelk *Lepsiella scobina* following a ban on the use of TBT antifoulants in New Zealand. *Mar Pollut Bull.* **32**: 362 - 365.
502. Smith, P. J., and McVeagh, M. 1991. Widespread organotin pollution in New Zealand coastal waters as indicated by imposex in dogwhelks. *Mar Pollut Bull.* **22**: 409 - 413.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

503. Solé, M., Morcillo, Y., and Porte, C. 1998. Imposex in the commercial snail *Bolinus brandaris* in the northwestern Mediterranean. *Environ Pollut.* **99**: 241 - 246.
504. Son, M. H., and Hughes, R. N. 2000. Relationship between imposex and morphological variation of the shell in *Nucella lapillus* (Gastropoda: Thaididae). *Estuar Coast Shelf Sci.* **50**: 599 - 606.
505. Sonak, S., Pangam, P., Giriyan, A., and Hawaldar, K. 2009. Implications of the ban on organotins for protection of global coastal and marine ecology. *J Environ Manage.* **90**: S96 - S108.
506. Sousa, A., Mendo, S., and Barroso, C. 2005. Imposex and organotin contamination in *Nassarius reticulatus* (L.) along the Portuguese coast. *Appl Organomet Chem.* **19**: 315 - 323.
507. Sousa, A., Matsudaira, C., Takahashi, S., Tanabe, S., and Barroso, C. 2007. Integrative assessment of organotin contamination in a southern European estuarine system (Ria de Aveiro, NW Portugal): Tracking temporal trends in order to evaluate the effectiveness of the EU ban. *Mar Pollut Bull.* **54**: 1645 - 1653.
508. Spence, S. K. 1989. Ecotoxicological studies of tributyltin (TBT), using the indicator species *Nucella lapillus* (L.). PhD. Thesis, *University of Liverpool*, United Kingdom.
509. Spence, S. K., Bryan, G. W., Gibbs, P. E., Masters, D., Morris, L., and Hawkins, S. J. 1990a. Effects of TBT contamination on *Nucella* populations. *Funct Ecol.* **4**: 425 - 432.
510. Spence, S. K., Hawkins, S. J., and Santos, R. S. 1990b. The Mollusk *Thais haemastoma* - an exhibitor of imposex and potential biological indicator of tributyltin pollution. *Mar Ecol P S Z N I.* **11**: 147 - 156.
511. Spooner, N., Gibbs, P. E., Bryan, G. W., and Goad, L. J. 1991. The effect of tributyltin upon steroid titers in the female dogwhelk, *Nucella lapillus*, and the development of imposex. *Mar Environ Res.* **32**: 37 - 49.
512. Sternberg, R. M. 2007. The roles of androgen, estrogen, and retinoid signaling in reproductive recrudescence of the eastern mud snail (*Ilyanassa obsoleta*): Implications for the mechanism of tributyltin-induced imposex. PhD. Thesis, *North Carolina State University*, North Carolina.
513. Sternberg, R. M., Gooding, M., and LeBlanc, G. 2004. The mechanism behind the association of tributyltin exposure with high testosterone in prosobranch gastropods: Insights. *In* 25th Annual SETAC Meeting (November 14 – 18, 2004), Portland, Oregon.
514. Sternberg, R. M., and LeBlanc, G. A. 2006. Kinetic characterization of the inhibition of acyl coenzyme A: Steroid acyltransferases by tributyltin in the eastern mud snail (*Ilyanassa obsoleta*). *Aquat Toxicol.* **78**: 233 - 242.
515. Sternberg, R. M., Hotchkiss, A. K., and Leblanc, G. A. 2008a. Synchronized expression of Retinoid X Receptor mRNA with reproductive tract recrudescence in an imposex-susceptible mollusc. *Environ Sci Technol.* **42**: 1345 - 1351.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

516. Sternberg, R. M., Hotchkiss, A. K., and LeBlanc, G. A. 2008b. The contribution of steroidal androgens and estrogens to reproductive maturation of the eastern mud snail *Ilyanassa obsoleta*. *Gen Comp Endocr.* **156**: 15 - 26.
517. Sternberg, R. M., Gooding, M. P., Hotchkiss, A. K., and LeBlanc, G. A. 2010. Environmental-endocrine control of reproductive maturation in gastropods: Implications for the mechanism of TBT-induced imposex in prosobranchs. *Ecotoxicol.* **19**: 14 - 23.
518. Stewart, C., de Mora, S. J., Jones, M. R. L., and Miller, M. C. 1992. Imposex in New Zealand neogastropods. *Mar Pollut Bull.* **24**: 204 - 209.
519. Stickle, W. B., and Zhang, Z. Y. 2003. Long-term trends in imposex in six populations of *Stramonita haemastoma*. *B Mar Sci.* **72**: 685 - 694.
520. Stickle, W., Short, J. W., Rice, S. D., and Brodersen, C. C. 1988. Imposex exists in Alaska, too. *Am Zool.* **28**: A161- A161.
521. Stickle, W. B., Sharpdahl, J. L., Rice, S. D., and Short, J. W. 1990. Imposex induction in *Nucella lima* (Gmelin) via mode of exposure to tributyltin. *J Exp Mar Biol Ecol.* **143**: 165 - 180.
522. Strand, J., and Asmund, G. 2003. Tributyltin accumulation and effects in marine molluscs from West Greenland. *Environ Pollut.* **123**: 31 - 37.
523. Strand, J., and Jacobsen, J. A. 2002. Imposex in two sublittoral neogastropods from the Kattegat and Skagerrak: The common whelk *Buccinum undatum* and the red whelk *Neptunea antiqua*. *Mar Ecol Prog Ser.* **244**: 171 - 177.
524. Strand, J., Jacobsen, J. A., Pedersen, B., and Granmo, A. 2003. Butyltin compounds in sediment and molluscs from the shipping strait between Denmark and Sweden. *Environ Pollut.* **124**: 7 - 15.
525. Strand, J., Glahder, C. A., and Asmund, G. 2006. Imposex occurrence in marine whelks at a military facility in the high Arctic. *Environ Pollut.* **142**: 98 - 102.
526. Strand, J., Jørgensen, A., and Tairova, Z. 2009. TBT pollution and effects in molluscs at US Virgin Islands, Caribbean Sea. *Environ Int.* **35**: 707 - 711.
527. Straw, J., and Rittschof, D. 2004. Responses of mud snails from low and high imposex sites to sex pheromones. *Mar Pollut Bull.* **48**: 1048 - 1054.
528. Stroben, E. 1996. The organotin pollution at the Bay of Morlaix with special reference to biomonitoring with prosobranchs. *Malacol Rev Suppl - Molluscan Reproduction.* **6**: 163 - 171.
529. Stroben, E., Oehlmann, J., and Fioroni, P. 1989. Der pseudohermaphroditismus bei *Nucella lapillus* (Prosobranchia, Steneoglossa), eine morphologische und histologische analyse. *Zool Beitr.* **32**: 1 - 16.
530. Stroben, E., Oehlmann, J., and Fioroni, P. 1992a. The morphological expression of imposex in *Hinia reticulata* (Gastropoda, Buccinidae) - A potential indicator of tributyltin pollution. *Mar Biol.* **113**: 625 - 636.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

531. Stroben, E., Oehlmann, J., and Fioroni, P. 1992b. *Hinia reticulata* and *Nucella lapillus* - Comparison of two gastropod tributyltin bioindicators. *Mar Biol.* **114**: 289 - 296.
532. Stroben, E., Brommel, C., Oehlmann, J., and Fioroni, P. 1992c. The genital systems of *Trivia arctica* and *Trivia monacha* (Prosobranchia, Mesogastropoda) and tributyltin induced imposex. *Zool Beitr.* **34**: 349 - 374.
533. Stroben, E., Schulte-Oehlmann, U., Fioroni, P., and Oehlmann, J. 1995. A comparative method for easy assessment of coastal TBT pollution by the degree of imposex in prosobranch species. *Haliotis.* **24**: 1 - 12.
534. Stroben, E., Oehlmann, J., Schulte-Oehlmann, U., and Fioroni, P. 1996. Seasonal variations in the genital ducts of normal and imposex-affected prosobranchs and its influence on biomonitoring indices. *Malacol Rev Suppl - Molluscan Reproduction.* **6**: 173 - 184.
535. Sundermann, G., Bauer, B., and Oehlmann, J. 1998. Ultrastructure of prostate gland tissue in males and females with intersex phenomena of *Littorina littorea* L. *Hydrobiol.* **378**: 227 - 233.
536. Svavarsson, J. 2000. Imposex in the dogwhelk (*Nucella lapillus*) due to TBT contamination: Improvement at high latitudes. *Mar Pollut Bull.* **40**: 893 - 897.
537. Svavarsson, J., and Skarphedinsdottir, H. 1995. Imposex in the dogwhelk *Nucella lapillus* (L.) in Icelandic waters. *Sarsia.* **80**: 35 - 40.
538. Svavarsson, J., Granmo, A., Ekelund, R., and Szpunar, J. 2001. Occurrence and effects of organotins on adult common whelk (*Buccinum undatum*) (Mollusca, Gastropoda) in harbours and in a simulated dredging situation. *Mar Pollut Bull.* **42**: 370 - 376.
539. Swennen, C., and Horpet, P. 2008. Pseudo-imposex; male features in female volutes not TBT-induced (Gastropoda: Volutidae). *Contrib Zool.* **77**: 17 - 24.
540. Swennen, C., Ruttanadakul, N., Ardseunghern, S., Singh, H. R., Tan, K. S., Mensink, B. P., and Ten Hallers-Tjabbes, C. C. 1996. Sexual aberrations in gastropods in Gulf of Thailand and Strait of Malacca in relation to shipping. *Wallaceana.* **78**: 1 - 13.
541. Swennen, C., Ruttanadakul, N., Ardseunghern, S., Singh, H. R., Mensink, B. P., and Ten Hallers-Tjabbes, C. C. 1997. Imposex in sublittoral and littoral gastropods from the Gulf of Thailand and Strait of Malacca in relation to shipping. *Environ Technol.* **18**: 1245 - 1254.
542. Swennen, C., Sampantarak, U., and Ruttanadakul, N. 2009. TBT-pollution in the Gulf of Thailand: A re-inspection of imposex incidence after 10 years. *Mar Pollut Bull.* **58**: 526 - 532.
543. Syasina, I. G., and Shcheblykina, A. V. 2007. Morphofunctional characterization of the reproductive system of the gastropods *Littorina brevicula*, *L. mandshurica*, and *Nucella heyseana* from uncontaminated and contaminated areas of Peter the Great Bay, Sea of Japan. *Russ J Mar Biol.* **33**: 399 - 404.
544. Takeda, N. 2000. Development of a penis from the vestigial penis in the female apple snail, *Pomacea canaliculata*. *Biol Bull.* **199**: 316 - 320.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

545. Takeda, N. 2001. Induction of Imposex by plasticizers in the freshwater snail, *Pomacea canaliculata*. In Abstracts of the 15th ICCE. International Congress of Comparative Endocrinology, Sorrento (Napoli), Italy. pp. P14.19.
546. Takeda, N. 2006. Induction of imposex by plasticizers in the freshwater snail, *Pomacea canaliculata*. J Exp Zool. **305A**: 183.
547. Tallmon, D. A., and Hoferkamp, L. 2009. Long-term changes in imposex frequency in file dogwinkles, *Nucella lima* G., and tributyltin concentrations in bay mussels, *Mytilus trossulus* G. B Environ Contam Tox. **83**: 235 - 238.
548. Tan, K. S. 1997. Imposex in three species of *Thais* from Singapore, with additional observations on *T. clavigera* (Kuster) from Japan. Mar Pollut Bull. **34**: 577 - 581.
549. Tan, K. S. 1999. Imposex in *Thais gradata* and *Chicoreus capucinus* (Mollusca, Neogastropoda, Muricidae) from the Straits of Johor: A case study using penis length, area and weight as measures of imposex severity. Mar Pollut Bull. **39**: 295 - 303.
550. Ten Hallers-Tjabbes, C. C. 1997. Tributyltin and policies for antifouling. Environ Technol. **18**: 1265 - 1268.
551. Ten Hallers-Tjabbes, C. C., and Boon, J. P. 1995a. *Buccinum undatum* L. in the North Sea, state of whelks and imposex phenomena. Mar Environ Res. **39**: 354 - 355.
552. Ten Hallers-Tjabbes, C. C., and Boon, J. P. 1995b. Whelks (*Buccinum undatum* L), dogwhelks (*Nucella lapillus* L) and TBT - A cause for confusion. Mar Pollut Bull. **30**: 675 - 676.
553. Ten Hallers-Tjabbes, C. C., Kemp, J. F., and Boon, J. P. 1994. Imposex in whelks (*Buccinum undatum*) from the open North Sea - Relation to shipping traffic intensities. Mar Pollut Bull. **28**: 311 - 313.
554. Ten Hallers-Tjabbes, C. C., Everaarts, J. M., Mensink, B. P., and Boon, J. P. 1996. The decline of the North Sea whelk (*Buccinum undatum* L) between 1970 and 1990: A natural or a human-induced event? Mar Ecol-P S Z N I. **17**: 333 - 343.
555. Ten Hallers-Tjabbes, C. C., Wegener, J. W., Van Hattum, B., Kemp, J. F., Ten Hallers, E., Reitsema, T. J., and Boon, J. P. 2003. Imposex and organotin concentrations in *Buccinum undatum* and *Neptunea antiqua* from the North Sea: Relationship to shipping density and hydrographical conditions. Mar Environ Res. **55**: 203 - 233.
556. Terlizzi, A. 2000. Imposex (Pseudoermafroditismo) in Molluschi Gasteropodi Mediterranei: Aspetti morfologici e considerazioni ecologiche. Boll Malacol. **36**: 155 - 158.
557. Terlizzi, A., Geraci, S., and Minganti, V. 1998. Tributyltin (TBT) pollution in the coastal waters of Italy as indicated by imposex in *Hexaplex trunculus* (Gastropoda, Muricidae). Mar Pollut Bull. **36**: 749 - 752.
558. Terlizzi, A., Geraci, S., and Gibbs, P. E. 1999. Tributyltin (TBT)-induced imposex in the neogastropod *Hexaplex trunculus* in Italian coastal waters: Morphological aspects and ecological implications. Ital J Zool. **66**: 141 - 146.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

559. Terlizzi, A., Frascchetti, S., Gianguzza, P., Faimali, M., and Boero, F. 2001. Environmental impact of antifouling technologies: State of the art and perspectives. *Aquat Conserv.* **11**: 311 - 317.
560. Terlizzi, A., Delos, A. L., Garaventa, F., Faimali, M., and Geraci, S. 2004. Limited effectiveness of marine protected areas: Imposex in *Hexaplex trunculus* (Gastropoda, Muricidae) populations from Italian marine reserves. *Mar Pollut Bull.* **48**: 188 - 192.
561. Teso, S. V., and Penchaszadeh, P. E. 2009. Beach filling and imposex in *Olivancillaria deshayesiana* (Mollusca: Gastropoda: Olividae) from the coast of Mar del Plata, Argentina. *J Mar Biol Assoc UK.* **89**: 557 - 562.
562. Tester, M., and Ellis, D. 1995. TBT controls and the recovery of whelks from imposex. *Mar Pollut Bull.* **30**: 90 - 91.
563. Tester, M., Ellis, D. V., and Thompson, J. A. J. 1996. Neogastropod imposex for monitoring recovery from marine TBT contamination. *Environ Toxicol Chem.* **15**: 560 - 567.
564. Tewari, A., Raghunathan, C., Joshi, H. V., and Khambhaty, Y. 2002. Imposex in rock whelks *Thais* and *Ocenebra* species (Mollusca, Neogastropoda, Muricidae) from Gujarat coast. *Indian J Mar Sci.* **31**: 321 - 328.
565. Thiriot-Quievereux, C. 1977. Particulaire de l'appareil genital de quelques especes de *Rissoiidae* (Mollusca, Mesogastropod). *C R Hebd Séances Acad Sci D.* **285**: 779 - 781.
566. Thompson, J. A. J. 1997. Organotin contamination and related imposex studies in southern BC coastal waters. *Can Tech Rep Fish Aquat Sci.* **2163**: 46 - 47.
567. Tillmann, M. 2004. Sediment-toxicological investigations using gastropods and insects with special emphasis on endocrine active substances. Göttingen: Cuvillier-Verlag; ISBN 3-86537-300-3, 196 pp. [in German].
568. Tillmann, M., Schulte-Oehlmann, U., Duft, M., Markert, B., and Oehlmann, J. 2001. Effects of endocrine disruptors on prosobranch snails (Mollusca: Gastropoda) in the laboratory. Part III: Cyproterone acetate and vinclozolin as antiandrogens. *Ecotoxicol.* **10**: 373 - 388.
569. Tyler, C. R., Jobling, S., and Sumpter, J. P. 1998. Endocrine disruption in wildlife: A critical review of the evidence. *Crit Rev Toxicol.* **28 (4)**: 319 - 361.
570. Unger, M. A., Harding, J. M., Mann, R., and Jestel, E. 2008. Tributyltin (TBT) induced imposex development in the veined rapa whelk (*Rapana venosa*) in Chesapeake Bay, USA. *In* 29th Annual SETAC Meeting (November 16 – 20, 2008), Tampa, Florida.
571. Unknown 1986. More on Imposex. *Mar Pollut Bull.* **17**: 528.
572. Valentinsson, D., Sjodin, F., Jonsson, P. R., Nilsson, P., and Wheatley, C. 1999. Appraisal of the potential for a future fishery on whelks (*Buccinum undatum*) in Swedish waters: CPUE and biological aspects. *Fish Res.* **42**: 215 - 227.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

573. Van Den Broeck, H., De Wolf, H., Backeljau, T., and Blust, R. 2007. Effects of environmental stress on the condition of *Littorina littorea* along the Scheldt estuary (The Netherlands). *Sci Total Environ.* **376**: 346 - 358.
574. Vasconcelos, P. 2006. Response to M. M. Santos comments to: "Imposex in *Hexaplex* (Trunculariopsis) *trunculus* (Gastropoda: Muricidae) from the Ria Formosa lagoon (Algarve coast southern Portugal)". *Mar Pollut Bull.* **52**: 1314 - 1315.
575. Vasconcelos, P., Gaspar, M. B., and Castro, M. 2006a. Development of indices for nonsacrificial sexing of imposex-affected *Hexaplex* (Trunculariopsis) *Trunculus* (Gastropoda: Muricidae). *J Mollus Stud.* **72**: 285 - 294.
576. Vasconcelos, P., Gaspar, M. B., and Castro, M. 2006b. Imposex in *Hexaplex* (Trunculariopsis) *trunculus* (Gastropoda: Muricidae) from the Ria Formosa lagoon (Algarve coast - southern Portugal). *Mar Pollut Bull.* **52**: 337 - 341.
577. Viglino, L., Pelletier, É., and Lee, L. E. J. 2006. Butyltin species in benthic and pelagic organisms of the Saguenay Fjord (Canada) and imposex occurrence in common whelk (*Buccinum undatum*). *Arch Environ Con Tox.* **50**: 45 - 59.
578. Vishwakiran, Y., and Anil, A. C. 1999. Record of imposex in *Cronia konkanensis* (Gastropoda, Mucricidae) from Indian waters. *Mar Environ Res.* **48**: 123-130.
579. Vishwakiran, Y., Anil, A. C., Venkat, K., and Sawant, S. S. 2006. *Gyrineum natator*: A potential indicator of imposex along the Indian coast. *Chemosphere.* **62**: 1718 - 1725.
580. Vogt, C., Schmitt, C., Wirzinger, G., Scheider, J., and Oehlmann, J. 2007. Snails as bio-indicators - Imposex of the netted whelk *Nassarius reticulatis* in Brittany along a transect from a point source. *In* World Congress of Malacology, Antwerp, Belgium.
581. Vos, J. G., Dybing, E., Greim, H. A., Ladefoged, O., Lambre, C., Tarazona, J. V., Brandt, I., and Vethaak, A. D. 2000. Health effects of endocrine-disrupting chemicals on wildlife, with special reference to the European situation. *Crit Rev Toxicol.* **30**: 71 - 133.
582. Watson, M. 2003. Vancouver workshop: Overview and synthesis. *Mar Environ Res.* **57**: 145 -153.
583. Wilson, S. P., Ahsanullah, M., and Thompson, G. B. 1993. Imposex in negastropods - An indicator of tributyltin contamination in eastern Australia. *Mar Pollut Bull.* **26**: 44 - 48.
584. Wirzinger, G., Vogt, C., Bachmann, J., Hasenbank, M., Liers, C., Stark, C., Ziebart, S., and Oehlmann, J. 2007. Imposex of the netted whelk *Nassarius reticulatus* (Prosobranchia) in Brittany along a transect from a point source. *Cah Biol Mar.* **48**: 85 - 94.
585. Yu, H., and Zhao, H. 2004. Anatomical and histological studies on imposex of *Thais clavigera*. *Oceanol Limnol Sin.* **35**: 149 - 155.
586. Yu, X. J., Huang, C. J., Zhu, S. X., and Chen, X. M. 2003. Histological studies on imposex of three marine prosobranchs. *Ecolo Sci.* **22**: 337 - 340.
587. Zhengyan, L. 2001. Application of imposex as a biomonitor of tributyltin pollution. *Journal of Ocean University of Qingado.* **31**: 480 - 486.

Effects of Organotins on Female Gastropods – Bibliography of Literature Read

588. Zhengyan, L. 2005. Seasonal variation in imposex intensity of *Thais clavigera*. Chinese J Oceanol Limnol. **23**: 163 - 168.
589. Zhu, S. X., Dong, Q. X., Shen, J. H., Yu, X. J., Du, H., and Huang, C. J. 2005. Imposex of *Conus betulinus* and *Conus vexillum*. Acta Ecol Sin. **25**: 289 - 297.