

Ian Duggan: Publications

Journal articles

- Stewart, S.S., Hamilton, D.P., Baisden, W.T., Dedual, M., Verburg, P., **Duggan, I.C.**, Hicks, B.J. & Graham, B.S. (2017), Variable littoral-pelagic coupling as a food-web response to seasonal changes in pelagic primary production. *Freshwater Biology* 62: 2008–2025.
- Eivers, R.S., **Duggan, I.C.**, Hamilton, D.P. & Quinn, J.M. (in press), Constructed treatment wetlands provide habitat for zooplankton communities in agricultural peat lake catchments. *Wetlands*
- Montemezzani, V., **Duggan, I.C.**, Hogg, I.D. & Craggs, R.J. (2017), Control of zooplankton populations in a wastewater treatment High Rate Algal Pond using overnight CO₂ asphyxiation. *Algal Research* 26: 250-264.
- Branford, S.N. & **Duggan, I.C.** (2017), Grass carp (*Ctenopharyngodon idella*) translocations, including hitchhiker introductions, alter zooplankton communities in receiving ponds. *Marine and Freshwater Research* 68: 2216–2227.
- Duggan, I.C.** & Payne, R.J. (2017), Revisiting Elton's copepods: lake construction has altered the distribution and composition of calanoid copepods in the British Isles. *Aquatic Invasions* 12: 159-166.
- Branford, S.N., **Duggan, I.C.**, Hogg, I.D. & Brandorf, G.O. (2017), Mitochondrial DNA indicates different North American east coast origins for New Zealand and German invasions of *Skistodiaptomus pallidus* (Copepoda: Calanoida). *Aquatic Invasions* 12: 167-175.
- Montemezzani, V., **Duggan, I.C.**, Hogg, I.D. & Craggs, R.J. (2017), Assessment of potential zooplankton control treatments for wastewater treatment High Rate Algal Ponds. *Algal Research* 24: 40-63.
- Duggan, I.C.** & Pullan, S.G. (2017), Do freshwater aquaculture facilities provide an invasion risk for zooplankton hitchhikers? *Biological Invasions* 19: 307-314.
- Burns, C.W., **Duggan, I.C.**, Banks, J.C. & Hogg, I.D. (2017), A new, subalpine species of *Daphnia* (Cladocera, Anomopoda) in the *D. carinata* species complex, in the South Island, New Zealand. *Hydrobiologia* 798: 151-169.
- Catlin, A.K., Collier, K.J. & **Duggan, I.C.** (2017), Zooplankton generation following inundation of floodplain soils: effects of vegetation type and riverine connectivity. *Marine and Freshwater Research* 68: 76–86.
- Montemezzani, V., **Duggan, I.C.**, Hogg, I.D. & Craggs, R.J. (2017), Screening of potential zooplankton control technologies for wastewater treatment High Rate Algal Ponds. *Algal Research* 22: 1-13.
- Lucena-Moya, P. & **Duggan, I.C.** (2017), Correspondence between zooplankton assemblages and the Estuary Environment Classification system. *Estuarine, Coastal and Shelf Science* 184: 1-9.
- Ginders, M.A., Collier, K.J., **Duggan, I.C.** & Hamilton, D.P. (2016), Influence of hydrological connectivity on plankton communities in natural and reconstructed side-arms of a large New Zealand river. *River Research and Applications* 32: 1675–1686.
- Montemezzani, V., **Duggan, I.C.**, Hogg, I.D. & Craggs, R.J. (2016), Zooplankton community influence on seasonal performance and microalgal dominance in wastewater treatment High Rate Algal Ponds. *Algal Research* 17: 168-184.
- Duggan, I.C.** (2016), The cultural history of the garden gnome in New Zealand. *Studies in the History of Gardens & Designed Landscapes* 36: 78-88.
- Rayes, C.A., Beattie, J. & **Duggan, I.C.** (2015), Boring through history: An environmental history of the extent, impact and management of marine woodborers in a global and local context: 500 BCE to 1930s CE. *Environment & History* 21: 477-512.

- Montemezzani, V., **Duggan, I.C.**, Hogg, I.D. & Craggs, R.J. (2015), A review of potential methods for zooplankton control in wastewater treatment High Rate Algal Ponds and algal production raceways. *Algal Research* 11: 211-226.
- Duggan, I.C.**, Wood, S.A. & West, D.W. (2015), Brown trout (*Salmo trutta*) removal by rotenone alters zooplankton and phytoplankton community composition in a shallow mesotrophic reservoir. *New Zealand Journal of Marine and Freshwater Research* 49: 356-365.
- Watson, N.T.N., **Duggan, I.C.** & Hogg, I.D. (2015), Assessing the diversity of New Zealand freshwater harpacticoid copepods (Crustacea: Copepoda). *New Zealand Journal of Zoology* 42: 57-67.
- Duggan, I.C.**, Neale, M.W., Robinson, K.V., Verburg, P. & Watson, N.T.N. (2014), *Skistodiatomus pallidus* (Copepoda: Diaptomidae) establishment in New Zealand natural lakes, and its effects on zooplankton community composition. *Aquatic Invasions* 9: 195-202.
- Collier, K.J., Clapcott, J.E., **Duggan, I.C.**, Hamilton, D.P., Hamer, M. & Young, R.G. (2013), Spatial variation of structural and functional indicators in a large New Zealand river. *River Research and Applications* 29: 1277-1290.
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- Duggan, I.C.**, Robinson K.V., Burns, C.W., Banks, J.C. & Hogg, I.D. (2012), Identifying invertebrate invasions using morphological and molecular analyses: North American *Daphnia 'pulex'* in New Zealand fresh waters. *Aquatic Invasions* 7: 585-590.
- Parkes, S.M. & **Duggan, I.C.** (2012), Are zooplankton invasions in constructed waters facilitated by simple communities? *Diversity & Distributions* 18: 1199-1210.
- Duggan, I.C.** & Eastwood, K.R. (2012), Detection and distribution of *Craspedacusta sowerbii*: Observations of medusa are not enough. *Aquatic Invasions* 7: 271-275.
- Taylor, C.M. & **Duggan, I.C.** (2012), Can biotic resistance be utilized to reduce establishment rates of non-indigenous species in constructed waters? *Biological Invasions* 14: 307-322.
- Duggan, I.C.** (2012), Urban planning provides potential for lake restoration through catchment re-vegetation. *Urban Forestry & Urban Greening* 11: 95-99.
- Duggan, I.C.** & Duggan, K.S. (2011), Are botanical gardens a risk for zooplankton invasions? *Biological Invasions* 13: 2997-3003.
- Collier, K.J., Demetras, N.J., **Duggan, I.C.** & Johnston, T.M. (2011), Wild record of an apple snail in the Waikato River, Hamilton, New Zealand, and their incidence in freshwater aquaria. *New Zealand Natural Sciences* 36: 1-9.
- Lucena-Moya, P. & **Duggan, I.C.** (2011), Macrophyte architecture affects the abundance and diversity of littoral microfauna. *Aquatic Ecology* 45: 279-287.
- Trolle, D., Hamilton, D.P., Pilditch, C.A., **Duggan, I.C.** & Jeppesen, E. (2011), Predicting the effects of climate change on trophic status of three morphologically varying lakes: Implications for lake restoration and management. *Environmental Modelling & Software* 26: 354-370.
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- Duggan, I.C.** (2010), The freshwater aquarium trade as a vector for incidental invertebrate fauna. *Biological Invasions* 12: 3757-3770.
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- Balvert, S.F., **Duggan, I.C.** & Hogg, I.D. (2009), Zooplankton seasonal dynamics in a recently filled mine pit lake: the effect of non-indigenous *Daphnia* establishment. *Aquatic Ecology* 43: 403-413.
- Duggan, I.C.**, Boothroyd, I.K. & Speirs, D.A. (2007), Factors affecting the distribution of stream macroinvertebrates in geothermal areas: Taupo Volcanic Zone, New Zealand. *Hydrobiologia* 592: 235-247.
- Bailey S.A., **Duggan, I.C.** & Maclsaac, H.J. (2007), Sediments in Ships: Biota as Biological Contaminants. *Aquatic Ecosystem Health and Management* 10: 93-100.
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- Duggan, I.C.**, Green, J.D. & Burger, D.F. (2006), First New Zealand records of three non-indigenous zooplankton species: *Skistodiaptomus pallidus*, *Sinodiaptomus valkanovi* and *Daphnia dentifera*. *New Zealand Journal of Marine and Freshwater Research* 40: 561-569.
- Ryan, E.F., **Duggan, I.C.**, Hamilton, D.P. & Burger, D.F. (2006), Phytoplankton community composition in lakes: is trophic state or mixing more important? *New Zealand Journal of Marine and Freshwater Research* 40: 389-398.
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- Duggan, I.C.**, van Overdijk, C.D.A., Bailey, S.A., Jenkins, P.T., Limén H. & Maclsaac, H.J. (2005) Invertebrates associated with residual ballast water and sediments of cargo-carrying ships entering the Great Lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 62: 2463-2474.
- Bailey, S.A., Nandakumar, K., **Duggan, I.C.**, van Overdijk, C.D.A., Johengen, T.H., Reid, D.F. & Maclsaac, H.J. (2005). *In situ* hatching of invertebrate diapausing eggs from ships' ballast sediment. *Diversity and Distributions* 11: 453-460
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Books and chapters

Taura Y. & **Duggan, I.C.** (2017), Impacts of willow and willow control on zooplankton. In: Te reo o te repo - the voice of the wetland: Connections, understandings and learnings for the restoration of our wetlands. Y. Taura, C. van Schravendijk-Goodman, B. Clarkson (eds.). Manaaki Whenua – Landcare Research; Waikato Raupatu River Trust. pp. 129-134.

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