

Benjamin John Wainwright
Yale-NUS College
12 College Avenue West
Singapore 138610

ACADEMIC APPOINTMENTS

Jan 2020 – Assistant professor of Environmental Science, Yale-NUS, Singapore

EDUCATION/QUALIFICATIONS

2017 – 2020 Research Fellow, National University of Singapore, Reef Ecology Lab, Advisor: Dr Danwei Huang (<https://coralreef.nus.edu.sg/>)

2016 - 2017 Postdoctoral Scholar, Advisor: Dr Anthony Amend (<http://amendlab.com/>)

PUBLICATIONS

22. **Wainwright BJ et al.**, (2020) Population genetics of the banded coral shrimp, *Stenopus hispidus* (Olivier, 1811), in the Indonesian archipelago. *Journal of Experimental Marine Biology and Ecology*. <https://doi.org/10.1016/j.jembe.2020.151325>
21. Archer SDJ, Lee KC, Caruso T, King-Miaow K, Harvey M, Hunag D, **Wainwright BJ**, Pointing SB (2019) Air mass source determines airborne microbial diversity at the ocean-atmosphere interface of the Great Barrier Reef marine ecosystem. *ISMEJ*. <https://doi.org/10.1038/s41396-019-0555-0>
20. Lee NLY, Huang D, Zheng BRQ, Lee J, **Wainwright BJ** (2019) Mangrove-associated fungal communities are differentiated by geographic location and host structure. *Frontiers in Microbiology*. doi:10.3389/fmicb.2019.02456
19. **Wainwright BJ et al.**, (2019) Seagrass-associated fungal communities show distance decay of similarity that has implications for seagrass management and restoration. *Ecology and Evolution*. Doi: 10.1002/ece3.5631
18. **Wainwright BJ et al.**, (2019) Characterisation of fungal biodiversity and communities associated with the reef macroalga *Sargassum ilicifolium* reveals fungal community differentiation according to geographic locality and algal structure. *Marine Biodiversity*. doi: 10.1007/s12526-019-00992-6
17. **Wainwright BJ et al.**, (2019) Characterisation of coral-associated bacterial communities in an urbanised marine environment shows strong divergence over small geographic scales. *Coral Reefs*. 38:1097-1106. doi: 10.1007/s00338-019-01837-1
16. **Wainwright BJ**, Shita I, Karl SA (2019) Population genetics of the collector urchin, *Tripneustes gratilla*, in the Indonesian archipelago. *Mar. Ecol.* doi: 10.1111/maec.12530
15. **Wainwright BJ et al.**, (2018) DNA barcoding of traded shark fins, meat and mobulid gill plates in Singapore uncovers numerous threatened species. *Conserv. Gen.* 19:1393–1399 <https://doi.org/10.1007/s10592-018-1108-1>
14. **Wainwright BJ**, Shita I, Karl SA (2018) Population genetic subdivision of seagrasses, *Syringodium isoetifolium* and *Thalassia hemprichii*, in the Indonesian Archipelago. *Bot Mar.* <https://doi.org/10.1515/bot-2017-0058>
13. **Wainwright BJ**, Zahn GL, Arlyza IS, Amend AS (2018) Seagrass-associated fungal communities follow Wallace’s line, but host genotype does not structure fungal community. *J Biogeogr.* 1–9. <https://doi.org/10.1111/jbi.13168>
12. **Wainwright BJ**, Zahn GL, Spalding HL, Sherwood AR, Smith CM, Amend AS (2017) Fungi associated with mesophotic macroalgae from the ‘Au ‘au channel, west Maui are differentiated by host and overlap terrestrial communities. *PeerJ*. 5:e3532. doi:10.7717/peerj.3532
11. Fernandez-Silva I, Whitney J, **Wainwright BJ**, Andrews KR, Ylitalo-Ward H, et al. (2013) Microsatellites for Next-Generation Ecologists: A Post-Sequencing Bioinformatics Pipeline. *PLoS ONE* 8: e55990. doi:10.1371/journal.pone.0055990
10. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of twenty-one polymorphic microsatellite loci for *Polycarpa aurata* using third generation sequencing. *Conserv. Gen. Res.* 5:671-673. doi: 10.1007/s12686-013-9879-7
9. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of seventeen polymorphic microsatellite loci for the tropical sea star, *Linckia multifora*. *Conserv.Gen. Res.* 5:503-505. doi: 10.1007/s12686-012-9838-8

8. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of twenty-six, polymorphic microsatellite loci for the tropical sea urchin, *Colobocentrotus atratus*. *Conserv. Gen. Res.* 5:379-381. doi: 10.1007/s12686-012-9808-1
7. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of twenty-three polymorphic microsatellite loci for *Linckia laevigata*. *Conserv. Gen. Res.* 5:157-159. doi: 10.1007/s12686-012-9757-8
6. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of twenty-four polymorphic microsatellite loci for the tropical seagrass, *Thalassia hemprichii*. *Conserv. Gen. Res.* 5:939-941. doi: 10.1007/s12686-013-9937-1
5. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of eighteen polymorphic microsatellite loci for the tropical seagrass, *Syringodium isoetifolium*. *Conserv. Gen. Res.* 5:943-945. doi: 10.1007/s12686-013-9938-0
4. **Wainwright BJ**, Shita I, Karl SA (2012) Isolation and characterization of nineteen microsatellite loci for the collector sea urchin, *Tripneustes gratilla*. *Conserv. Gen. Res.* 4: 963-965. doi: 10.1007/s12686-012-9683-9
3. **Wainwright BJ**, Shita I, Karl SA (2012) Development of Eighteen polymorphic microsatellite loci for the banded coral shrimp, *Stenopus hispidus*. *Conserv. Gen. Res.* 4:947-949. doi: 10.1007/s12686-012-9680-z
2. **Wainwright BJ**, Shita I, Karl SA (2012) Development of Fifteen microsatellite loci for *Protoreaster nodosus* (Echinodermata; Asteroidea). *Conserv. Gen. Res.* 4: 873-875. doi: 10.1007/s12686-012-9662-1
1. **Wainwright BJ**, Shita I, Karl SA (2012) Eighteen microsatellite loci for the crown-of-thorns starfish, *Acanthaster planci*. *Conserv. Gen. Res.* 4:861-863. doi: 10.1007/s12686-012-9659-9

GRANTS RECEIVED (\$298,886 received to date)

2018	Ocean Park Conservation Fund	\$65234
2018	Wildlife Reserves Singapore	\$59303
2018	Marine Science R&D Programme Singapore*	\$75000
2016	RCUH research award	\$5500
2015	RCUH research award	\$4000
2014	RCUH research award	\$4000
2014	Dai Ho Chun Fund for Graduate Fellowships	\$2500
2013	RCUH research award	\$4000
2013	Edmondson Grant	\$1200
2012	GSO UHM	\$1000
2011	Edmondson Grant	\$590
2011	GSO UHM	\$2000
2011	UHM Arts & Science	\$2500
2010	TOTAL Foundation	\$66623
2010	GSO UHM	\$2000
2010	Explorers Club 2010	\$2000
2010	SigmaXI (Dec)	\$800
2010	SigmaXI (April)	\$400
2010	Rufford Small Grants Foundation	\$9536
2009	Edmondson Grant	\$700

*Co-PI

TEACHING EXPERIENCE

- 2019** **Guest lecturer**, Department of Biology, National University of Singapore, LSM4261 Genetic Connectivity and Conservation in Singapore and South East Asia.
- 2018** **Guest lecturer**, Department of Biology, National University of Singapore, LSM4261 Genetic Connectivity in the Coral Triangle
- 2008–2016** **Graduate Teaching Assistant**, Biology 101 for Non majors, Biology 265 Ecology and Evolution, Biology 301 Marine Ecology and Evolution. Taught over 700 students.
- 2012** **Guest lecturer**, Biology 403 Field Problems in Marine Biology
- 2006** **Teacher/Trainer/Team leader**, SeagrassNet and Atlantic and Gulf Rapid Reef Assessment (AGRRA)

2003-2004 **BTEC Assessor**, Tropical Habitat Conservation, Frontier/The Society for Environmental Exploration 50-52 Rivington Street, London

ADDITIONAL SKILLS AND EXPERIENCE

BSAC/PADI/NAUI/AAUS qualified nitrox diver (>3000 dives to date). Royal Yachting Association Power Boat level II qualified. DAN O₂ and 1st aid/CPR administrator.

Field work performed in:

Madagascar, Belize, Indonesia, Thailand, Mexico, Hawaii (main eight and all North West Islands), Palau, Maldives, Egypt, New Caledonia, Singapore, Malaysia (Peninsular and Malaysian Borneo), Papua New Guinea.