

Publications by Matz lab students while still in graduate school.
The student's name is in **bold**.

1. **Barfield, S. J.**, Aglyamova, G. V., Bay, L. K. & Matz, M. V. Contrasting effects of *Symbiodinium* identity on coral host transcriptional profiles across latitudes. *Mol. Ecol.* (2018). doi:10.1111/mec.14774
2. **Wright, R. M.**, Kenkel, C. D., Dunn, C. E., Shilling, E. N., Bay, L. K. and Matz, M. V. Intraspecific differences in molecular stress responses and coral pathobiome contribute to mortality under bacterial challenge in *Acropora millepora*. *Scientific Reports* 2017, 7:2610.
3. **Dixon, G.**, Bay, L. K., Matz, M. V. Evolutionary consequences of DNA methylation in a basal metazoan. *Mol. Biol. Evol.* 2016, 33: 2285-2293. doi:10.1093/molbev/msw100.
4. **Strader ME**, Aglyamova G V, Matz M V. Red fluorescence in coral larvae is associated with a diapause-like state. *Mol. Ecol.* 2016, 25:559–569.
5. **Barfield, S.**, Aglyamova, G.V., Matz, M. V. Evolutionary origins of germline segregation in Metazoa: evidence for a germ stem cell lineage in the coral *Orbicella faveolata* (Cnidaria, Anthozoa). *Proc. Roy. Soc. B* 2016, 283: 20152128.
6. **Strader, M. E.**, Davies, S. W., and Matz, M. V. Differential responses of coral larvae to the colour of ambient light guide them to suitable settlement microhabitat. *Roy. Soc. Opensci.* 2015, 2:150358.
7. **Dixon, G. B.**, Davies, S. W., Aglyamova, G. V., Meyer, E., Bay, L. K. and Matz, M. V. Genomic determinants of coral heat tolerance across latitudes. *Science* 2015, 348:1460-1462.
8. **Wright, R. M.**, Aglyamova, G. V., Meyer, E. and Matz, M. V. Gene expression associated with white syndromes in a reef-building coral, *Acropora hyacinthus*. *BMC Genomics* 2015, 16: 371.
9. **Dixon, G. B.**, Bay, L. K., Matz, M. V. Bimodal signatures of germline methylation are linked with gene expression plasticity in the coral *Acropora millepora*. *BMC Genomics* 2014, 15:1109.
10. Green, E.A., **Davies, S.W.**, Matz, M.V., Medina, M. Quantifying cryptic *Symbiodinium* diversity within *Orbicella faveolata* and *Orbicella franksi* at the Flower Garden Banks, Gulf of Mexico. *PeerJ* 2014, 2:e386.
11. Quigley, K.M., **Davies, S.W.**, **Kenkel, C.D.**, Willis, B.L., Matz, M.V., Bay, L.K. Deep-sequencing method for quantifying background abundances of *Symbiodinium* types: exploring the rare *Symbiodinium* biosphere in reef-building corals. *PLoS ONE* 2014, 9:e94297.
12. **Davies, S.W.**, Meyer, E., Guermond, S.M., Matz, M.V. A cross-ocean comparison of responses to settlement cues in reef-building corals. *PeerJ* 2014, 2:e333.
13. **Kenkel, C. D.**, Sheridan, C., Leal, M. C., Bhagooli, R., Castillo, K. D., Kurata, N., McGinty, E., Goulet, T. L. and Matz, M. V. Diagnostic gene expression biomarkers of coral thermal stress. *Mol Ecol Res* 2014, 14:667-678.
14. Matz, M. V., **Wright, R. M.**, and Scott, J. G. No control genes required: Bayesian analysis of qRT-PCR data. *PLoS ONE* 2013, 8(8): e71448.
15. **Davies SW**, Matz MV, Vize PD (2013) Ecological Complexity of Coral Recruitment

Processes: Effects of Invertebrate Herbivores on Coral Recruitment and Growth Depends Upon Substratum Properties and Coral Species. *PLoS ONE* 8(9): e72830. doi:10.1371/journal.pone.0072830

16. **Kenkel, C. D.**, Goodbody-Gringley, G. , Caillaud, D., Davies S. W., Bartels E., and Matz M. V. Evidence for a host role in thermotolerance divergence between populations of the mustard hill coral (*Porites astreoides*) from different reef environments. *Mol Ecol* 2013, 22: 4335-4348.
17. **Kenkel, C. D.**, Meyer, E., and Matz, M. V. Gene expression under chronic heat stress in populations of the mustard hill coral (*Porites astreoides*) from different thermal environments. *Mol Ecol* 2013, 22:4322-4334.
18. **Davies, S. W.**, Rahman, M., Meyer, E., Green, E. A., Buschizarro, E., Medina, M., and Matz, M. V. Novel polymorphic microsatellite markers for population genetics of the endangered Caribbean star coral, *Montastraea faveolata*. *Marine Biodiversity* 2012, doi: 10.1007/s12526-012-0133-4.
19. **Kenkel CD**, Aglyamova G, Alamaru A, Bhagooli R, Capper R, Cunning JR, deVillers A, Haslun JA, Hédouin L, Keshavmurthy S, Kuehl KA, Mahmoud H, McGinty ES, Montoya-Maya PH, Palmer CV, Pantile R, Sánchez JA, Schils T, Silverstein RN, Squiers LB, Tang PC, Goulet TL and Matz MV: Development of gene expression markers of acute heat-light stress in reef-building corals of the genus *Porites*. *PLoS ONE* 2011, 6(10):e26914.
20. **Kenkel, C. D.**, Traylor, M. R., Wiedenmann, J., Salih, A., and Matz, M. V. Fluorescence of coral larvae predicts their settlement response to crustose coralline algae and reflects stress. *Proc. Roy. Soc. B* 2011, 278: 2691-2697, doi:10.1098/rspb.2010.2344
21. **Hunt M. E., Modi C. K.**, Aglyamova, G. V., Ravikant, D. V. S., Meyer, E. and Matz, M. V. Multi-domain GFP-like proteins from marine hydrozoans. *Photochem Photobiol Sci.* 2012, 11:637-644.
22. **Hunt, M. E.**, Scherrer, M. P., Ferrari, F. D. and Matz, M. V. Very bright green fluorescent proteins from the pontellid copepod *Pontella mimocerami*. *PLoS ONE* 2010, 5: e11517.