

Acknowledgements: I would like to thank the members of my thesis committee, Douglas Crawford, Dr. Marjorie Oleksiak, and Dr. Evan D'Alessandro, as well graduate student Melissa Drown for their guidance and support. Additionally, I would like to thank the Marine Genomics Lab and the Rosenstiel School of Marine and Atmospheric Sciences. Funding was provided by the National Science Foundation NSF/105 1556396 and NS/105 1754437. **References:** Burnett, K., et al. (2007). *Fundulus* as the premier teleost model in environmental biology: Opportunities for new insights using genomics. *Elsevier*, 257-286., Campana, S.E. 2004. Photographic Atlas of Fish Otoliths of the Northwest Atlantic Ocean. *NRC Research press, Ottawa, Ontario*, 284 pp., Comte, L., J. O. (2016). Evolutionary and environmental determinants of freshwater fish thermal tolerance and plasticity. *Global Change Biology, 23*, 728-736.