

13. Carra S, Alberti S, Benesch JLP, Boelens W, Buchner J, Carver JA, Cecconi C, Ecroyd H, Gusev N, Hightower LE, Klevit RE, Lee HO, Liberek K, **Lockwood B**, Poletti A, Timmerman V, Toth ME, Vierling E, Wu T, Tanguay RM. 2019. Small heat shock proteins: multifaceted proteins with important implications for life. *PLoS One* 24(2), 295-308.
12. **Lockwood BL**, Gupta T., Scavotto R. 2018. Disparate patterns of thermal adaptation between life stages in temperate vs. tropical *Journal of Experimental Biology* 31, 323-331.
11. **Lockwood BL**, Julick CR, Montooth KL. 2017. Maternal loading of a small heat shock protein increases embryo thermal tolerance in *Journal of Experimental Biology* 220, 4492-4501.
10. German DP, Foti DM, Heras J, Amerkhanian H, and **Lockwood BL**. 2016. Elevated gene copy number does not always explain elevated amylase activities in fishes. *Journal of Experimental Biology* 89, 277-293.
9. **Lockwood BL**, Connor KM, and Gracey AY. 2015. The environmentally tuned transcriptomes of *Mytilus* mussels. *PLoS One* 218, 1822-1833.
8. **Lockwood BL** and Somero GN. 2012. Functional determinants of temperature adaptation in enzymes of cold- vs. warm-adapted mussels (genus *Mytilus*). *Journal of Experimental Biology* 29, 3061-3070.
7. **Lockwood BL** and Somero GN. 2011. Invasive and native blue mussels (genus *Mytilus*) on the California coast: the role of physiology in a biological invasion. *Journal of Experimental Biology* 400, 167-174.
6. **Lockwood BL** and Somero GN. 2011. Transcriptomic responses to salinity stress in invasive and native blue mussels (genus: *Mytilus*). *Journal of Experimental Biology* 20, 517-529.
5. **Lockwood BL**, Sanders JG, and Somero GN. 2010. Transcriptomic responses to acute heat stress in invasive and native blue mussels (genus: *Mytilus*): molecular correlates of invasive success. *Journal of Experimental Biology* 213, 3548-3558.
4. Denny MW, **Lockwood BL**, and Somero GN. 2009. Can the giant snake predict palaeoclimate? *Journal of Experimental Biology* 460, E3-E4.
3. Peng J, Wagle M, Mueller T, Mathur P, **Lockwood BL**

TEACHING

- 2019 - now BIOL 296B, Physiology of Global Change, U Vermont
2017 - now BIOL 295, Field Marine Biology, U Vermont
2015 - now BIOL 255, Comparative Physiology, U Vermont
~~2015~~ - now BIOL 225, Physiological Ecology, U Vermont
2017 BIOL 371B, Molecular Adaptation, U Vermont
2016 BIOL 371A, Sensory Systems and Hormones, Co-Instructor with Dr. Rona Delay, U Vermont
2015 BIOL 296B, Investigations in Physiological Ecology, U Vermont
- 2011 Mussels and microarrays: environmental physiology of invasive vs. native mussels (genus *Mytilus*) on the California coast!
Course: Environmental Biomechanics, Physiology, and Genomics of Marine Species, Professors: Dr. Stephen R. Palumbi, Dr. Mark W. Denny, and Dr. George N. Somero, Stanford University
- 2010 Transcriptomic approaches to the study of ecological physiology!
Course: Ecological and Evolutionary Physiology, Professor: Dr. George N. Somero, Stanford University
- 2007 Introduction to intertidal ecology and experimental design!
Course: Marine Ecology, Professor: Dr. Fiorenza Micheli, Stanford University
- 2009 Course: Plant Biology, Evolutionary Biology, and Ecology, Professors: Dr. Mark W. Denny, Dr. Stephen R. Palumbi, and Dr. James Watanabe, Stanford University
- 2007 Course: Problems in Ecological and Evolutionary Physiology, Professor: Dr. George N. Somero, Stanford University
- 2007 Course: Marine Ecology, Professor: Dr. Fiorenza Micheli, Stanford University
- 2006 Course: Plant Biology, Evolutionary Biology, and Ecology, Professors: Dr. Mary Beth Mudgett, Dr. Dmitri A. Petrov, and Dr. Deborah Gordon, Stanford University

MENTORSHIP

- 2015 - now Emily Mikucki, PhD student (defended 2020) and Postdoctoral fellow, U Vermont
 2015 - 2016 Rosemary Scavotto, Research technician, U Vermont
 2015 - 2017 Sarah Howe, Undergrad independent project and post-grad research technician, U Vermont
 2014 - 2016 Marissa Ng, Undergraduate honors thesis, U Vermont
 2014 - 2016 Gurkiranjit Rattu, Undergraduate honors thesis, U Vermont
- 2013 Michael Bruner, High school student independent project, Indiana University
 2012 Nathan Byrd, Undergraduate independent project, Indiana University
- 2009 Lauren Linsmayer, Undergraduate honors thesis, Stanford University
 2008 Rachel Friedman, Undergraduate independent project, Stanford University
 2007 Laura McDonald, Undergraduate independent project, Stanford University
 2007 Andrew Wicklund, Undergraduate independent project, Stanford University
- 2020 - now Helaina Stergas, Dissertation, Dept. of Biology, U Vermont
 2020 Jhanavi Kapadia, Undergraduate honors thesis, Dept. of Biology, U Vermont
 2019 - now Erika Bueno, Dissertation, Dept. of Plant and Soil Sciences, U Vermont
 2016 - 2018 Brendan Chandler, Dissertation, Dept. of Biology, U Vermont
 2018 Julia Cline, Undergraduate honors thesis, Dept. of Biology, U Vermont
 2016 - 2017 Amanda Rasming-Lund, Undergraduate honors thesis, Rubenstein, U Vermont
 2016 - 2020 April Garrett, Dissertation, Dept. of Biology, U Vermont
 2016 - 2019 Ashley Waldron, Dissertation, Dept. of Biology, U Vermont
 2016 Elizabeth White, Undergraduate honors thesis, Dept. Biology, U Vermont
 2014 - now Trevor Gearhart, Dissertation, Dept. of Biology, U Vermont
 2014 - now Emily Price, Dissertation, Dept. of Biology, U Vermont
 2014 - now Ravi Nagori, Dissertation, Dept. of Biology, U Vermont
 2014 - 2018 Chase Stratton, Dissertation, Dept. of Plant and Soil Sciences, U Vermont
 2014 - 2017 Andrew Nguyen, Dissertation, Dept. of Biology, U Vermont

UNIVERSITY & PROFESSIONAL SERVICE

- 2020 Department of Biology Chair Five-year Review Committee, U Vermont
 2018 - now Academic Affairs Committee Chair, Department of Biology, U Vermont
 2018 - 2019 Department of Chemistry Chair Five-year Review Committee, U Vermont
 2018 - 2019 College of Arts and Sciences Honors Committee, University of Vermont
 2015 - 2018 Academic Affairs Committee member, Department of Biology, U Vermont
 2014 - now Member of the Graduate College, U Vermont
 2007 - 2008 Elected officer, Hopkins Marine Station Graduate Student Organization. Stanford University.
 2000 Co-organizer for the 20th International Conference on Science and Social Responsibility. Student Pugwash USA. San Diego, CA.

Society for Integrative and Comparative Biology, Genetics Society of America, Society for the Study of Evolution, European Society for Evolutionary Biology

SEMINARS & PRESENTATIONS

- 2019 **Lockwood BL.** "Genetic and physiological mechanisms of response to environmental change." Departmental Seminar, Department of Biology, Western University of Ontario.
- 2019 **Lockwood BL.** "Integrating genetics and physiology to gain insights into species responses to environmental change." Marvin Seminar, Department of Plant Biology, University of Vermont.
- 2018 **Lockwood BL.** "Integrating genetics and physiology to gain insights into species responses to environmental change." Departmental seminar, Biology Department, Boston College.
- 2018 **Lockwood BL.** "Integrating genetics and physiology to gain insights into species responses to environmental change." Departmental seminar, School of Marine Sciences, University of Maine.
- 2018 **Lockwood BL.** "Small heat shock proteins in ectotherms: response to environmental challenges across generations and through evolutionary time." Cell Stress Society International Workshop on Small Heat Shock Proteins, Quebec City, Canada.
- 2014 **Lockwood BL.** "Unity in diversity: What can we learn from transcriptomics studies in mussels?" Symposium on Biochemical Adaptation, Hopkins Marine Station, Stanford University.
- 2014 **Lockwood BL.** "Mechanisms of temperature adaptation in the sea and on land." Departmental seminar, Dept. of Biology, University of Vermont.
- 2013 **Lockwood BL.** "Mechanisms of temperature adaptation in the sea and on land." Departmental seminar, Dept. of Biology, Sewanee, The University of the South.
- 2013 **Lockwood BL.** "Mechanisms of temperature adaptation in the sea and on land."

- 2018 Gupta T, Howe SE, Zorman ML, **Lockwood BL**. "Aggression among species is driven by reproductive competition." Annual Drosophila Research Conference, Genetics Society of America.
- 2018 **Lockwood BL**, Gupta T, and Scavotto R. "Disparate patterns of thermal adaptation between life stages in temperate vs. tropical ." Society for Integrative and Comparative Biology Annual Meeting.
- 2017 **Lockwood BL** and Gupta T. "Molecular targets of thermal stress during early development in ." Society for Integrative and Comparative Biology Annual Meeting.
- 2016 **Lockwood BL** and Scavotto R. "Natural variation in embryonic thermal tolerance among populations of along a thermal gradient." Society for Integrative and Comparative Biology Annual Meeting.
- 2014 **Lockwood BL** and Montooth KL. "Heat stress disrupts key events in early embryonic development." Annual Drosophila Research Conference, Genetics Society of America.
- 2014 **Lockwood BL** and Montooth KL. "The consequences of thermal stress on early embryonic development: from cells to the whole-organism." Society for Integrative and Comparative Biology Annual Meeting.
- 2013 **Lockwood BL** and Montooth KL. "The effects of thermal stress on embryonic development: from cellular defects to whole-organism survival." Annual Drosophila Research Conference, Genetics Society of America.
- 2013 **Lockwood BL** and Montooth KL. "Coping with stress: the cellular maintenance of embryonic development." Society for Integrative and Comparative Biology Annual Meeting.
- 2011 **Lockwood BL** and Somero GN. "Temperature adaptation of orthologous enzymes correlates with biogeographic distributions of invasive vs. native marine mussels (genus) on the California coast." Evolution Annual Meeting.
- 2010 **Lockwood BL** and Somero GN. "Effects of acute temperature and salinity stresses on the transcriptomes of invasive and native mussel species (genus)." American Physiological Society Intersociety Meeting: Global Change and Global Science Comparative Physiology in a Changing World. B0.2 (I) - -0.2 /TT2 1 Tf (201) Tj ET Q /Spa

- 2003 **Lockwood B**, Bjerke S, Kobayashi K, and Guo S. "Acute effects of alcohol on larval zebrafish: a genetic system for large-scale screening." West-Coast Regional Zebrafish Conference.
- 2002 **Lockwood BL**. "Sex-ratio evolution in a population of dark-eyed juncos () at UC San Diego." Undergraduate Research Symposium, University of California, San Diego.