

Curriculum vitae : Bradley A. Buckley

**Department of Biology
Portland State University
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PROFESSIONAL PREPARATION:

Ph.D. 2003 Arizona State University; Department of Biology
M.S. 1999 University of Miami, Rosenstiel School of Marine and Atmospheric
Sciences; Division of Marine Biology and Fisheries
B.S. 1994 Oregon State University; Biology (*cum laude*)

APPOINTMENTS:

2006-Present Assistant Professor, Portland State University
2004-2006 NSF Office of Polar Programs Post-doctoral Research Fellow, Host
Institution: Stanford University
2003-2004 Post-doctoral Researcher, Stanford University

TEACHING EXPERIENCE:

2007 Visiting Instructor – PISCO Ecological Physiology Summer Course,
Hopkins Marine Station, Stanford University
2006-present Instructor: Human Anatomy and Physiology; Portland State University
2006-present Instructor: Polar Biology, Portland State University
2006-present Instructor: Physiological Adaptations to Extreme Environments;
2004 Instructor – PISCO Ecological Physiology Summer Course, Hopkins
Marine Station, Stanford University
2002 Teaching assistant - Animal Physiology, Arizona State University
2001 Teaching assistant - NSF Antarctic Biology Course, McMurdo Station,
Antarctica
2000 Teaching assistant - NSF Antarctic Biology Course, McMurdo Station,
Antarctica
2000 Teaching assistant - Marine Biology Field Course, Minority Access to
Research Careers (MARC), Arizona State University
1999 Teaching Assistant - General Biology, Arizona State University

AWARDS AND FELLOWSHIPS:

2004 NSF Office of Polar Programs Post-doctoral Fellowship
2002 Finalist, Scholander Award Competition. American Physiological
Society Conference

- 2001 Outstanding Poster Presentation, GELS conference, Arizona State University
- 2000 Outstanding Graduate Student Presentation Award, Gordon Research Conference on Biological Regulatory Mechanisms
- 1999-2003 University Doctoral Fellowship, Arizona State University
- 1996-1999 University Graduate Fellowship, University of Miami
- 1994-1995 Oregon State University Folk Club Scholarship
- 1994-1995 Tim Wirth Memorial Scholarship

INVITED SEMINARS:

- 2007 University of British Columbia; Life in the Freezer: Genomic responses to elevated temperature in Antarctic fishes.
- 2006 San Francisco State University; The cellular response to heat stress in eury- and stenothermal fishes: a cDNA microarray based analysis.
- 2006 JEB Banff Workshop on Comparative Physiology and Genomics.
- 2003 Stanford University, Hopkins Marine Station; Environmental control of heat shock genes : A mudsucker's tale.

PROFESSIONAL MEMBERSHIPS:

American Association for the Advancement of Science
 Sigma Xi
 Society for Experimental Biology
 Society of Integrative and Comparative Biologists

PUBLICATIONS AND PUBLISHED ABSTRACTS:

- Buckley, B.A. (2007). Comparative environmental genomics in non-model species: using heterologous hybridization to DNA-based microarrays. *J. Exp. Biol.* 210, 1602-1606
- Buckley, B.A., Gracey, A.Y. and G.N. Somero (2006). The cellular response to heat stress in the goby *Gillichthys mirabilis*: a cDNA microarray and protein-level analysis. *J. Exp. Biol.* 209, 2660-2677.
- Buckley, B.A., Gracey, A.Y. and G.N. Somero (2005). Gene expression profiling in a eurythermic goby exposed to an elevated temperature cycle. *Comp. Biochem. Physiol.* A141, S349-S357.
- Buckley, B.A., Gracey, A.Y. and G.N. Somero (2005). A cDNA microarray analysis of thermally responsive gene expression in a eurythermal goby, *Gillichthys mirabilis*. *FASEB J.* 19(5): A1313. Part 2. Suppl. S.
- Buckley, B.A., and G.E. Hofmann (2004). Magnitude and duration of thermal stress determine kinetics of Hsp gene regulation in the goby, *Gillichthys mirabilis*. *Physiol. Biochem. Zool.* 77(4), 570-581
- Buckley, B.A., S.P. Place and G.E. Hofmann (2004). Regulation of heat shock genes in isolated hepatocytes from an Antarctic fish, *Trematomus bernacchii*. *J. Exp. Biol.* 207, 3649-3656

- Buckley, B.A. and A.M. Szmant (2004). RNA/DNA ratios as indicators of metabolic activity in four species of Caribbean reef-building corals. *Mar. Ecol. Prog. Series* 282, 143-149
- Buckley, B.A., Gracey, A.Y., and G.N. Somero (2003). DNA microarray analysis of gene expression during heat stress in the eurythermal goby, *Gillichthys mirabilis*. *Int. Comp. Biol.* 43 (6), 928-928
- Buckley, B.A., and G.E. Hofmann (2002). Thermal acclimation changes DNA-binding activity of heat shock factor 1 (HSF1) in the goby *Gillichthys mirabilis*: implications for plasticity in the heat-shock response in natural populations. *J. Exp. Biol.* 205, 3231-3240
- Hofmann, G.E., Buckley, B.A., Place, S.P., and M.L. Zippay (2002). Molecular chaperones in marine ectothermic animals: Biochemical function and gene expression. *Integ. Comp. Biol.* 42, 808-814
- Buckley, B.A., M.-E. Owen, and G.E. Hofmann (2001). Adjusting the thermostat: \ the threshold induction temperature for the heat-shock response in intertidal mussels (genus *Mytilus*) changes as a function of thermal history. *J. Exp. Biol.* 204, 3571-3579
- Dalhoff, E. P., B. A. Buckley, and B.A. Menge (2001). Physiology of the rocky intertidal predator *Nucella ostrina* along an environmental stress gradient. *Ecol.* 82(10), 2816-2829
- Hofmann, G.E., B.A. Buckley, S. Airaksinen, J.E. Keen, and G.N. Somero (2000). Heat-shock protein expression is absent in the Antarctic fish *Trematomas bernacchii* (Family Nototheniidae). *J. Exp. Biol.* 203, 2331-2339

CONFERENCES AND WORKSHOPS ATTENDED:

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| June 2007 | Setting a Course for Antarctic Integrated Systems Science; National Science Foundation; Arlington, VA |
| August 2006 | JEB Workshop on Genomics and Comparative Physiology; Banff, Canada |
| August, 2005 | ICEFISH Symposium, Walpole, ME |
| July, 2005 | Annual Main Meeting of the Society of Experimental Biologists, Barcelona, Spain |
| April, 2005 | XXXV International Congress of Physiological Sciences, San Diego, CA |
| May, 2004 | Integrated Approaches to Abiotic Stress (IAAS) workshop, Reno, NV |
| January, 2004 | Society of Integrative and Comparative Biologists, New Orleans, LA |
| November, 2002 | Western Society of Naturalists, Monterey, CA |
| August, 2002 | American Physiology Society, The Power of Comparative Physiology. San Diego, CA |
| August 2001 | Scientific Committee on Antarctic Research, Amsterdam, The Netherlands |
| August 2000 | Gordon Research Conference – Biological Regulatory Mechanisms, Holderness School, Plymouth, New Hampshire |

