

Curriculum vitae : Bradley A. Buckley

Department of Biological Sciences
Hopkins Marine Station - Stanford University
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PROFESSIONAL PREPARATION:

Ph.D. 2003 Arizona State University, Tempe; Department of Biology

M.S. 1999 University of Miami, Rosenstiel School of Marine and Atmospheric Sciences,
Miami; Division of Marine Biology and Fisheries

B.S. 1994 Oregon State University, Corvallis; Biology (*cum laude*)

APPOINTMENTS:

2003- Post-doctoral researcher, Stanford University

TEACHING EXPERIENCE:

2002 Laboratory instructor - 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:

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

GRANTS IN SUPPORT OF RESEARCH:

August 2002: Travel Award, American Physiology Society Conference

June 2002: Travel Grant, Graduate College, Arizona State University

June 2001: Travel Grant, Graduate College, Arizona State University

INVITED SEMINARS:

2003 Stanford University, Hopkins Marine Station, Fall Seminar Series
Environmental control of heat shock genes: A mudsucker's tale.

PROFESSIONAL MEMBERSHIPS:

Society of Integrative and Comparative Biologists

PUBLICATIONS:

- 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.* (In press)
- 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* (in review).
- 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.* (accepted with minor revision).
- 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 heatshock 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, 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

ABSTRACTS AND PRESENTATIONS:

- IAAS Workshop, 2004: Gene expression profiling in a eurythermal goby exposed to an elevated temperature cycle.
- SICB, 2004: Thermal control of gene expression: From heat shock proteins to DNA microarrays.
- WSN, 2002: Thermal acclimation changes DNA-binding activity of heat shock factor 1 (HSF1) in the goby *Gillichthys mirabilis*.
- APS, 2002: Acclimation-induced variability in the activation of heat shock transcription factor HSF1 in the goby *Gillichthys mirabilis*: Implications for ecological plasticity in the heat shock response.
- SCAR, 2001: Studies of heat shock protein expression in Antarctic notothenioid fishes: a collaborative study.
- GRC, 2000: Adjusting the thermostat: the threshold induction temperature for the heat-shock response in intertidal mussels (genus *Mytilus*) changes as a function of thermal history.

GRADUATE ADVISOR:

Dr. Gretchen Hofmann, Department of Ecology, Evolution & Marine Biology, University of California, Santa Barbara, California 93106-9610

POSTDOCTORAL ADVISOR:

Dr. George Somero, Stanford University, Hopkins Marine Station, Oceanview Blvd., Pacific Grove, CA