

ANNALIESE BEERY

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EDUCATION AND APPOINTMENTS

University of California, San Francisco Robert Wood Johnson Health and Society Scholar (Postdoctoral fellow) Laboratories of Dr. Darlene Francis and Dr. Elissa Epel Research topic: <i>Epigenetic mechanisms of phenotypic plasticity</i>	2008-present
University of California, Berkeley Ph.D. Neuroscience, Laboratory of Dr. Irving Zucker, 4.0 GPA Dissertation: <i>Neuroendocrinology of affiliative behavior in group-living rodents</i>	2003-2008
Williams College B.A. Biology, Magna Cum Laude and highest honors for neuroscience thesis work	1994-1997
California Institute of Technology	1993-1994

FELLOWSHIPS AND GRANTS

• Robert Wood Johnson Foundation Seed Grant	2009
• Robert Wood Johnson Health and Society Postdoctoral Scholar	2008
• Greater Good Science Center Hornaday Graduate Fellow	2007
• National Science Foundation Graduate Research Fellowship	2005
• National Defense Science and Engineering Graduate Fellowship	2005

PUBLICATIONS AND PRESENTATIONS

Peer-reviewed manuscripts:

Beery AK, Routman DM, Zucker I. Same-sex social bond formation in meadow voles: multiple and rapid formation of attachments. *Physiology and Behavior*. DOI: 10.1016/j.physbeh.2009.01.020

Beery AK, Lacey EA, Francis DD. (2008) Oxytocin and vasopressin receptor distributions in a solitary and a social species of tuco-tuco (*Ctenomys haigi* and *Ctenomys sociabilis*). *Journal of Comparative Neurology* 507:1847-1859.

Beery AK, Loo TJ, Zucker I. (2008) Day length and estradiol affect same-sex affiliative behavior in the female meadow vole. *Hormones and Behavior* 54: 153-159.

Beery AK, Paul MJ, Routman DM, Zucker I. (2008) Maternal photoperiodic history affects offspring development in Syrian hamsters. *Journal of Biological Rhythms* 23(5):445-455.

Beery AK, Trumbull JJ, Tsao JM, Costantini RM, Zucker I. (2007) Sex differences in the onset of seasonal reproductive quiescence in hamsters. *Proceedings of the Royal Society: Biology* 274:281-286.

Costantini RM, Park JH, **Beery AK**, Paul MJ, Ko JJ, Zucker I. (2007) Post-castration retention of reproductive behavior and olfactory preferences in male Siberian hamsters: role of prior experience. *Hormones and Behavior* 51:49-55.

Park JH, Kauffman AS, Paul MJ, Butler MP, **Beery AK**, Costantini RM, Zucker I. (2006) Interval timer control of puberty in photoinhibited Siberian hamsters. *Journal of Biological Rhythms* 21(5):373-383.

Submitted and in preparation manuscripts:

Beery AK, Zucker I. Oxytocin facilitates same-sex social behavior independent of dopamine [In prep for submission to *J. Neurosci*]

Beery AK, Driscoll JR, Biddle JS, Zucker I. Neuroendocrine correlates of same-sex social behavior: individual variation in behavior, oxytocin receptors, and estrogen receptor- α . [In prep for *Endocrinology*].

Poster presentations:

Beery AK (2008) *Phylogenetic variation in social behavior and oxytocin receptors in South American rodents*. Talk and poster at the Gordon Conference on Genes and Behavior, Il Ciocco, Italy, February 2008.

Beery AK, Routman DM, Loo TJ, Zucker I (2007). *Daylength and estrogen affect same-sex partner preference in meadow voles (*Microtus pennsylvanicus*)*. Poster presented at Society for Behavioral Neuroendocrinology conference, Asilomar, CA, June 2007.

Beery AK, Lacey EA, Francis DD (2006). *Oxytocin and vasopressin receptors associated with group-living social organization*. Poster presented at Society for Neuroscience conference and at the Oxytocin, Vasopressin, and Emotional Regulation pre-meeting. Atlanta, GA, October 2006.

Beery AK, Lacey EA, Francis DD (2006). *Social organization and oxytocin receptor distribution*. Poster presented at Society for Behavioral Neuroendocrinology conference, Pittsburgh, PA, June 2006.

Beery AK, Trumbull JJ, Tsao JM, Costantini RM, Zucker I (2005). *Sex differences in the seasonal decline of fertility in hamsters*. Poster at Society for Behavioral Neuroendocrinology conf., Austin, TX, June 2005.

Talks and invited presentations:

Beery AK (2009). *Partner preference formation in meadow voles: what polygamous rodents can teach us about social bonds*. Vole Meeting. Atlanta, GA. February 2009.

Beery AK (2008). *Neural correlates of same-sex social behavior*. Society for Neuroscience conference. Washington, DC. November 2008.

Beery AK (2008). *Epigenetic encoding of early life experience*. Human Early Learning Partnership meeting. Vancouver, BC. April 2008.

Beery AK (2008) *Phylogenetic variation in social behavior and oxytocin receptors in South American rodents*. Talk and poster at the Gordon Conference on Genes and Behavior. Il Ciocco, Italy, February 2008.

Beery AK (2007). *Brain, environment, and social behavior in voles*. Behavior lunch seminar, University of California, Berkeley, Oct. 2007.

Beery AK (2006). *Neuroendocrinology of non-sexual social affiliation*. Neuroscience departmental retreat speaker, University of California, Berkeley, Nov. 2006.

Beery AK (2006). *Anatomy of a pairbond*. Guest lecture for seminar on biological embedding of social factors, University of California, Berkeley, March 2006.

Beery AK (2006). *Gene regulation and epigenetics*. Guest lecture for seminar on biological embedding of social factors, University of California, Berkeley, February 2006.

Beery AK (2005). *Scents and sociality: the neurobiology of olfaction and social bonding*. Behavior lunch seminar, University of California, Berkeley, Nov. 2005.

Beery AK (2004). *The Limbic System*. Guest lecture in Mammalian neuroanatomy, University of California, Berkeley, November 2004.

Beery AK (2004). *Cellular basis of affiliative behavior*. Neuroscience departmental seminar, University of California, Berkeley, Nov. 2004.

TEACHING AND MENTORING

Research Mentor for 11 undergraduate research assistants	2004-present
Graduate Student Instructor (UC Berkeley)	
Hormones and Behavior (taught by Dr. Lance Kriegsfeld)	Spring 2006
Mammalian Neuroanatomy lab (lectures taught by Dr. Jeffery Winer)	Fall 2004
Science Teacher, Marin Academy (San Rafael, CA)	2001-2003
Taught AP Biology, Integrated Science, AP Environmental Science. Elected to co-lead faculty meetings. Led backpacking/winter camping trips for students (5/year). Certified Wilderness First Responder.	
Science Teacher, Punahou Academy (Honolulu, HI)	1997-2000
Taught Biology, Honors Chemistry, AP Environmental Science. Programming club and hiking club advisor. Recipient of Kelly technology grant, a learning fellowship, and a summer curriculum grant.	
Undergraduate Teaching Assistant at Williams College and Caltech	1994-1996

RESEARCH AND OTHER EMPLOYMENT

High School Teacher (see teaching section)	1997-2000, 2001-2003
Software Engineer, Bivio Inc.	2000-2001
Design and programming for database-backed online investment club accounting software.	
Field courses	
Aquatic Vertebrate Ecology, University of Montana, Flathead Lake Biological Station	Summer 1998
Alaska Wildlands Studies, McCarthy Alaska	Summer 1997
Williams College: Adler Lab	1996-1997
Molecular neuroscience research. Summer research and senior thesis on whether calcium entering neural cells through different channel types differentially affects gene expression in response to cell depolarization.	
UCSF: Drug dependence research center, Mendelson Lab	Summer 1995
Neuropharmacology research. Studies of cocaethylene metabolites in human blood; tests of sublingual buprenorphine/naloxone therapy as a non-abusable therapy for opiate addiction.	
California Institute of Technology: Wold Lab	Spring/Summer 1994
Developmental and molecular biology. Engineered and cloned a reporter construct for the myogenin gene expressed in muscle tissue, for use in transgenic mice.	
National Institutes of Health: Williams Lab	Summer 1992
Molecular biology internship. Created a mutant, soluble form of the erythropoietin receptor in order to understand receptor dimerization during red blood cell development.	

COMMITTEES AND SERVICE

• Ad hoc reviewer for: <i>Proceedings of the Royal Society B, Physiology and Behavior</i> , and <i>Comparative Biochemistry and Physiology</i>	2008-present
• Neuroscience program curriculum committee, graduate student member	2006-2008
• Neuroscience program admissions committee, sole graduate student member	2006-2007

SELECT AWARDS

- Gordon Conference (Genes and Behavior) Travel Award 2008
- Society for Behavioral Neuroendocrinology Travel Award 2005
- Outstanding Graduate Student Instructor Award, UC Berkeley 2004
- Learning fellowship, Kelly Technology Grant, Curriculum fellowship, Punahou Academy 1998
- Sigma Xi Scientific Honor Society, Williams College chapter 1997
- Phi Beta Kappa, Williams College chapter 1997
- Essel Foundation Summer Fellow, Williams College 1996
- Lawrence Traveling Fellowship, Williams College 1995
- Summer Undergraduate Research Fellow, Caltech 1994
- Robert Andrews Millikan Scholar (Caltech research merit award) 1993