

SARAH M. EPPLEY

Education

Ph.D.	2000	Population Biology, University of California Davis
M.S.	1995	Population Biology, University of California, Davis
B.A.	1991	Biology, University of California, Santa Cruz

Employment

Assistant Professor, Portland State University, Department of Biology	2005 – present
Postdoctoral Fellow, Victoria University, Wellington, New Zealand	2004 – 2005
Postdoctoral Fellow, University of Oxford, United Kingdom	2002 – 2004
Research Assistant, University of California, Davis, with Dr. M. Stanton	1995 – 1996
Teaching Assistant, University of California, Davis, various courses	1993 – 1997
Research Assistant, University of California, Davis, with Dr. T. Wilkins	1992 – 1993
Laboratory Assistant, University of California, Berkeley, with Dr. P. LeMaux	1991 – 1992
Research Assistant, University of California, Santa Cruz, with Dr. R. Curry	1991
Smithsonian Research Fellow, Smithsonian Environmental Research Center	1990

Publications

- Eppley, S. M. and Pannell, J. R. 2009. Inbreeding depression in dioecious populations of the plant *Mercurialis annua*: comparisons between outcrossed progeny and the progeny of self-fertilized feminized males. *Heredity* (in press)
- Eppley, S. M., O'Quinn, R., Brown*, A. L. 2009. New sequence-tagged site molecular markers for identification of sex in *Distichlis spicata*. *Molecular Ecology Resources* (in press)
- Eppley, S. M. and Jesson, L. K. 2008. Moving to mate: the evolution of separate and combined sexes in multicellular organisms. *Journal of Evolutionary Biology* 21: 727-736
- Taylor, P.J., Eppley, S. M., and Jesson, L. K. 2007. Sporophytic inbreeding depression in mosses occurs in a species with separate sexes but not in a species with combined sexes. *American Journal of Botany* 94: 1853-1859
- Eppley, S. M. and Pannell, J. R. 2007. Density-dependent self-fertilization and male versus hermaphrodite siring success in an androdioecious plant. *Evolution* 61: 2349-2359
- Tsyusko, O. V., Peters, M. B., Tuberville, T. D., Hagen, C., Eppley, S. M., and Glenn, T. C. 2007. Microsatellite markers isolated from saltgrass (*Distichlis spicata*). *Molecular Ecology Notes* 7: 883-885
- Eppley, S. M. and Pannell, J. R. 2007. Patterns of occupancy and abundance in an annual plant: testing a metapopulation model for the distribution of sexual systems. *American Naturalist* 169: 20-28
- Eppley, S. M., Taylor, P. J. and Jesson, L. K. 2007. Self-fertilization in mosses: a comparison of heterozygote deficiency between species with combined versus separate sexes. *Heredity* 98: 38-44
- Eppley, S. M. 2006. Females make tough neighbors: sex-specific competitive effects in seedlings of a dioecious grass. *Oecologia* 146: 549-554
- Eppley, S. M. 2005. Spatial segregation of the sexes and nutrients affect reproductive success in a dioecious, wind-pollinated grass. *Plant Ecology* 18: 179-190
- Pannell, J. R., Dorken, M. E. and Eppley, S. M. 2005. Haldane's Sieve in a metapopulation: sifting through plant sexual polymorphisms. *Trends in Ecology and Evolution* 20: 374-379.
- Pannell, J. R. and Eppley, S. M. 2004. Intraorganismal genetic diversity: Is it a useful concept? *Journal of Evolutionary Biology* 17: 1180-1181.
- Eppley, S. M. 2001. Gender-specific selection during early life-history stages in the dioecious grass *Distichlis spicata*. *Ecology* 82: 2022-2031.

- Eppley, S. M., and Wenk, E. H. 2001. Reproductive biomass allocation in the dioecious perennial *Acanthosicyos horrida*. *South African Journal of Botany* 67: 10-14.
- Roy, B. A., Stanton, M. L., and Eppley, S. M. 1999. Effects of environmental stress on leaf hair density and consequences for selection. *Journal of Evolutionary Biology* 12: 1089-1103.
- Eppley, S. M., Stanton, M. L., and Grosberg, R. K. 1998. Intrapopulation sex ratio variation in the salt grass *Distichlis spicata*. *American Naturalist* 152: 659-670.

*student author at PSU

Publications in Progress

- Eppley, S. M., Graves*, C., and Mercer*, C. A sex-specific mutualistic interaction in a dioecious grass. *American Journal of Botany* (submitted)
- Rosenstiel, T. N. and Eppley, S. M. Long-lived sperm in bryophytes. *Biology Letters*
- Rosenstiel, T. N., Llana-García*, E., Graves*, C., and Eppley, S. M. Environmental stress and species distributions: geothermal bryophytes as a model system. *New Phytologist*
- Pannell, J. R., Eppley, S. M., and Berjano*, R. Variation in sex allocation amongst patches, populations and regions of an annual plant: testing the metapopulation model. *American Naturalist*
- Eppley, S. M. and Jesson, L. K. Intraorganismal selection and the evolution of mating systems. *Biology Letters*

*student authors

Honors, Grants, and Fellowships

- Miller Grant –The Center for Sustainable Processes and Practices PSU – PIs: V. Shandas, T. Rosenstiel, H. Chang, R. Rice, B. Messer, C. de Rivera, C. Ozawa, J. Duh, and S. Eppley, Carb-WON Districts: Carbon and Water Observation Networks for Eco-districts, \$187107, 2009
- NSF – Directorate of Biological Sciences, Division of Environmental Biology; PI: S.M. Eppley, Testing Hypotheses for the Evolution of Sexual Dimorphism, \$261835, 2008 – 2011
- 3M, Non-Tenured Faculty Award, Bryophyte growth and reproduction, \$30000, 2008 – 2009
- NSF, INT 0202645, International Postdoctoral Research Fellowship, PI: S.M. Eppley, Using empirical data to test population and metapopulation models for the evolution of mating systems in the annual plant *Mercurialis annua*, \$184000, 2002 – 2004
- Environmental Protection Agency, Science to Achieve Results (STAR) Fellowship, salary and research grant of \$65000, 1997 – 1999
- NSF, Dissertation Improvement Grant, research grant of \$12400, 1996 – 1998
- University of California, Davis, Center for Population Biology, Research Grants, 1994, 1995, 1996
- University of California Bodega Marine Laboratory, Research Grants, 1994, 1995, 1996
- U.S. Department of Agriculture, Biotechnology Fellowship, 1992 – 1993
- Phi Beta Kappa, 1991
- Honors in Biology, Honors from Porter College, University of California, Santa Cruz, 1991
- Smithsonian Summer Fellowship, Smithsonian Environmental Research Center, 1990

Memberships in Professional Societies

- The American Bryological and Lichenological Society
 The American Society of Naturalists
 Botanical Society of America
 The Ecological Society of America