

Robert L. Baker

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EDUCATION

- University of Colorado**, Ph.D. Ecology and Evolutionary Biology (2011)
Dissertation: "The molecular and morphological microevolution and development of *Mimulus guttatus* (Phrymaceae) shoot architecture" (Advisor Dr. Pamela Diggle)
- Reed College**, B.A. Biology 2002
Thesis: "Evidence contradicting the sib competition hypothesis in the clonal grass *Dactylis glomerata* (Poaceae)" (Advisor Dr. Keith Karoly)

APPOINTMENTS

- Graduate Student**, University of Colorado, Boulder CO 2004-present
- *Predoctoral Fellow*: Dept. of Ecology and Evolutionary Biology, CU Boulder
 - *Research Assistant*: Molecular and Organismic Research in Plant History (MORPH), an NSF Research Coordination Network (PI Dr. William Friedman)
 - *Technician*: The evolution and development of apomixis (PI Dr. Richard Noyes)
 - *Teaching Assistant*: General Biology, Genetics, Plant Anatomy
 - *Coursework*: "Frontiers in Plant Science" (Cold Spring Harbor Laboratory); "Investigating the Evolution of Plant Form: Conceptual Integration from the Molecular to the Ecological (MORPH), "Homology: Conceptual and Historical Integration from the Morphological to the Molecular" (MORPH); Plant Anatomy, Plant Evolution, Plant Population Biology, Development and Evolution, Plant Morphology, Evolution of Morphology, Biometry (University of Colorado)
- Visiting Graduate Student**, University of Kansas, Lawrence KS 2007 & 2009
MORPH-funded training in non-model plant molecular techniques (Dr. Lena Hileman)
- Research Assistant**, University of Maryland, College Park MD 2004
Molecular and morphological development and evolution of annelid regeneration and asexual reproduction (PI Dr. Alexa Bely)
- Research Assistant**, AgResearch, Ltd, Palmerston North, New Zealand 2003
Developmental significance of the *Arabidopsis TERMINAL EAR1-like* gene (PI Dr. Bruce Veit)
- Teaching Assistant & Tutor**, Reed College, Portland OR 2002
Vascular Plant Diversity and Genetics & Gene Regulation, respectively
- Summer Internship**, Reed College, Portland OR 2001
Molecular Phylogeography of the endangered alpine *Lupinus lepidus* var. *lobbii* (Fabaceae) (PI Dr. Keith Karoly)

Biology Stockroom Assistant, Reed College, Portland OR

1999-2002

SERVICE

Undergraduate Honors Thesis Project, Mentor	2010
Undergraduate Research Opportunities Program (UROP), Mentor	2009
Undergraduate Independent Project, Mentor	2009
Planting Science Master Plant Science Team	2007-present
Graduate Student Working Group Committee, Chair	2007-2008
Evo-devo Job Search Committee, Graduate Rep	2007
Evo-devo Job Search Graduate Committee, Chair	2007
Planting Science Online Mentor	2006-present
Colloquium Committee Member	2005-2006
Dept. Rep. to the United Government of Graduate Students	2005-2006
Graduate Student Mentor	2005-2006

HONORS

Certificate of Meritorious Service: Master Plant Science Team, Planting Science	2009
Certificate of Meritorious Service: Science Mentor, Planting Science	2009
Commended For Excellence in Teaching, C.U. Boulder	2006
Commended For Excellence in Teaching, C.U. Boulder	2005
Commended For Excellence in Scholarship, Reed College	2002
National Merit Scholar	1998

PEER REVIEWED PUBLICATIONS

Marshall, D.L., N. J. Abrahamson, **R. Baker**, M.G. Barnes, P. K. Diggle, T. L. Koontz, C. Lay, J. S. Medeiros, J. Murgel, M. G. M. Shaner, H. L. Simpson, and C. Wu. *in prep.* Effects of paternity on embryo development in wild radish.

Noyes, R.D., **R. Baker**, and B. Mai. 2007. Mendelian segregation for two-factor apomixis in *Erigeron annuus* (Asteraceae). *Heredity* 98:92-98.

[acknowledged in] Bely, A. E and Weisblat, D. A. 2006. Lessons from leeches: a call for DNA barcoding in the lab. *Evolution and Development* 8(6):491-501.

[acknowledged in] Karoly, K. and Conner, J. K. 2000. Heritable Variation in a Family-level Trait. *Evolution* 54(4):1433-1438.

CONTRIBUTED TALKS

R. Baker. 2008. Gallery Series talks at the University of Colorado Museum of Natural History, "The Evolutionary and Developmental Basis of Ecological Adaptation"

R. Baker. 2007. Investigating the evolution of plant form: conceptual integration from the molecular to the ecological, a MORPH minicourse held at the University of Colorado at Boulder, Colorado. "Microevolution and Development of *Mimulus guttatus* shoot architecture"

R. Baker. 2007. Guild of Rocky Mountain Ecologists and Evolutionary Biologists (GREEBs) meeting at Ghost Ranch, Utah. "Microevolution of Development: building branches in *Mimulus guttatus*"

R. Baker. 2007. Teaching Evolution Symposium, University of Colorado at Boulder, Colorado. "Teaching Macroevolution: Mutations of Large Effect"

PROFESSIONAL GRANTS AND FUNDING

C.U. Ecology and Evolutionary Biology Summer Fellowship (\$6000)	2009
Beverly Sears Graduate Student Grant (\$1000)	2008
University of Colorado Natural History Museum's Walker van Riper Fund (\$1500)	2008
C.U. Ecology and Evolutionary Biology Departmental Research Grant (\$2500)	2008
Botanical Society of America Graduate Student Research Award (\$500)	2007
C.U. Ecology and Evolutionary Biology Department Research Grant (\$2500)	2007
University of Colorado Natural History Museum's Walker van Riper Fund (\$1500)	2007
C.U. Ecology and Evolutionary Biology Department Research Grant (\$2500)	2006
NSF Molecular and Organismic Research in Plant History (MORPH) (\$3000)	2006
C.U. Ecology and Evolutionary Biology Department Training Grant (\$3300)	2005
Cold Spring Harbor Laboratories (\$1990)	2005
Hughes Undergraduate Research Project (\$430)	2002
Hughes Undergraduate Research Project	2001

PROFESSIONAL SOCIETY MEMBERSHIP

Society for the Study of Evolution	2009-present
American Society of Plant Biologists	2008-present
Botanical Society of America	2007-present