

## DOUGLAS R. TAYLOR

### CONTACT INFO:

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### PERSONAL INFO:

Born December 3, 1963 (Ridgewood, NJ)  
Citizenship: Dual, US & Canadian

### EDUCATION:

1993 Ph.D., Genetics, Duke University, Advisor: J. Antonovics  
1988 M.Sc., Biology, Queen's University, Advisor: L.W. Aarssen  
1986 B.Sc., Biology, Queen's University

### PROFESSIONAL EXPERIENCE:

2012- Commonwealth Professor of Biology, University of Virginia  
2004-2012 Professor and Chair, Department of Biology, University of Virginia  
1999-2004 Associate Professor, Department of Biology, University of Virginia  
1994-1999 Assistant Professor, Department of Biology, University of Virginia  
1993-1994 Postdoctoral Research Associate, Center for Microbial Ecology,  
Michigan State University, Advisor: R. Lenski.

### AWARDS/HONORS:

2012 Appointed Commonwealth Professor, University of Virginia  
1999-02 Samuel Miller Research Chair  
1998 National Science Foundation, Career Development Award  
1996-97 University Teaching Fellowship, University of Virginia  
1994 American Society of Naturalists Young Investigators' Prize  
1992-94 Natural Sciences and Engineering Research Council of Canada (NSERC)  
post-doctoral fellowship  
1988 Duke University Program in Genetics Award  
1988 Natural Sciences and Engineering Research Council of Canada (NSERC)  
postgraduate scholarship  
1988 Queen's University Faculty of Arts and Science nominee for the  
Graduate Gold Medal

1987-88 Ontario Graduate Fellowship  
1986-87 Franklin Bracken Memorial Fellowship  
1986-87 Queen's Graduate Award

## **PUBLICATIONS:**

### **Published or in press:**

Sebasky, M.E., Keller, S.R. and Taylor, D.R. 2016 Investigating past range dynamics for a weed of cultivation, *Silene vulgaris*. *Ecology and Evolution*, in press.

Edgington, H.E, Ingram, C.M., and D.R. Taylor. 2016. Phylogeography implicates late-Pleistocene/early-Pleistocene divergence in a cave-dwelling salamander lineage, *Eurycea lucifuga*. *Ecology and Evolution*, in press.

Berardi, A.E., Fields, P.D., Abbate, J.L., Taylor, D.R. 2016. Elevational divergence and clinal variation in floral color and leaf chemistry in *Silene vulgaris* (Caryophyllaceae). *Am J Bot.* in press.

Rockenbach, K., J. G. Monroe, J C. Havird, D. A. Triant, D. R. Taylor, D. B. Sloan. Phylogenetic and population genetic evidence for positive selection in rapidly evolving plastid-nuclear enzyme complexes. *Genetics*, in press.

Sanderson, BJ, ME Augat, DR Taylor, ED Brodie. 2016. Scale dependence of sex ratio in wild plant populations: implications for social selection. *Ecology and Evolution* 5: 1411-1419.

Fields PD, Taylor DR. 2015. Determinants of Genetic Structure in a Nonequilibrium Metapopulation of the Plant *Silene latifolia*. Ingvarsson PK, ed. *PLoS ONE*. 2014;9(9):e104575. doi:10.1371/journal.pone.0104575.

Wu Z, Cuthbert JM, Taylor DR, Sloan DB. 2015. The massive mitochondrial genome of the angiosperm *Silene noctiflora* is evolving by gain or loss of entire chromosomes. *Proceedings of the National Academy of Sciences USA*. 112: 10185-10191.

Keller, S.R, PD Fields, AE Berardi and DR Taylor. 2014. Recent admixture generates heterozygosity-fitness correlations during the range expansion of an invading species. *Journal of Evolutionary Biology*, 27(3):616–627.

Sloan, DB, DA Triant, NJ Forrester, LM Bergner, M Wu, and DR Taylor. 2014. A recurring syndrome of accelerated plastid genome evolution in the angiosperm tribe Sileneae (Caryophyllaceae). *Molecular Phylogenetics and Evolution*, 72: 82-89.

- Sloan, DB, DA Triant, M Wu, and DR Taylor. 2014. Cytonuclear Interactions and Relaxed Selection Accelerate Sequence Evolution in Organelle Ribosomes. *Molecular Biology and Evolution*, 31: 673-682.
- Fields, PD, DE McCauley, E McAssey, and DR Taylor. 2014. Patterns of cyto-nuclear linkage disequilibrium in *Silene latifolia*: genomic heterogeneity and temporal stability. *Heredity* 112: 99–104
- McFrederick, QS, TH Roulston, and DR Taylor. 2013. Evolution of associates of solitary and social sweat bees. *Insectes Sociaux* 60: 309-317.
- Sloan, DB, K Müller, DE McCauley, DR. Taylor, and H Štorchová. 2012. Intraspecific variation in mitochondrial genome sequence, structure, and gene content in *Silene vulgaris*, an angiosperm with pervasive cytoplasmic male sterility. *New Phytologist* 196: 1228-1239.
- Keller, S, K Gilbert, P Fields and DR Taylor. 2012. Bayesian inference of a complex invasion history revealed by nuclear and chloroplast genetic diversity in the colonizing plant, *Silene latifolia*. *Molecular Ecology* 21: 4721-4734.
- McFrederick, QS, and DR Taylor. 2012. Evolutionary history of nematodes associated with sweat bees. *Molecular Phylogenetics and Evolution* 66: 847-866.
- Sloan DB, Alverson AJ, Wu M, Palmer JD, Taylor DR. 2012. Recent acceleration of plastid sequence and structural evolution coincides with extreme mitochondrial divergence in the angiosperm genus *Silene*. *Genome Biology and Evolution* 4: 294-306.
- Sloan, DB, Keller, Stephen, S, Berardi, A, Sanderson, B, Karpovich, J, Taylor, D. 2012. De novo transcriptome assembly and polymorphism detection in the flowering plant *Silene vulgaris* (Caryophyllaceae). *Molecular Ecology Resources* 12: 333-343.
- McFrederick, Q, Taylor, DR, Ishak, H, Dowd, S, Mueller, U. 2012. Environment or kin: whence do bees obtain acidophilic bacteria? *Molecular Ecology* 21: 1754-1768.
- Sloan, DB, Alverson AJ, Chuckalovcak JP, Wu M, McCauley DE, Palmer, JD and DR Taylor (2012) Rapid Evolution of Enormous, Multichromosomal Genomes in Flowering Plant Mitochondria with Exceptionally High Mutation Rates. *PLoS Biology* 10(1): e1001241.
- Sloan DB, Taylor DR. 2012. Evolutionary rate variation in organelle genomes: the role of mutational processes. In Bullerwell, Charles E. (ed). *Organelle Genetics*. Springer-Verlag. pp 123-146.

- Taylor, D.R. 2012. Science, enlightenment and intellectual tensions in American higher education. In *What is College For? The Public Purpose of Higher Education*. H. Lewis and E. Langemann (eds). Teacher's College Press. pp. 46-62.
- Sloan DB, Alverson AJ, Storchova H, Palmer JD, Taylor DR. 2010. Extensive loss of translational genes in the structurally dynamic mitochondrial genome of the angiosperm *Silene latifolia*. *BMC Evolutionary Biology*. 10:274.
- Sloan, D.B., A.H. MacQueen, A.J. Alverson, J.D. Palmer, and D.R. Taylor. 2010. Extensive loss of RNA editing sites in rapidly evolving mitochondrial genomes: selection versus retroprocessing as the driving force. *Genetics* 185: 1369-1380.
- Neiman, M., G. Hehman, J. M. Logsdon Jr., J.T. Miller and D.R. Taylor. 2010. Accelerated mutation accumulation in asexual lineages of a New Zealand snail. *Molecular Biology and Evolution* 27: 954-963.
- Keller, S.R. and D.R. Taylor. 2010. Genomic admixture increases fitness in an invasive plant. *Journal of Evolutionary Biology* 23:1720-1731.
- Sloan, D.B. and D.R. Taylor. 2010. Testing for selection on synonymous sites in plant mitochondrial DNA. *Journal of Molecular Evolution* 5: 479-491.
- Wade, M.J., D.S. Wilson, C. Goodnight, D.R. Taylor, Y. Bar-Yam, M.A.M. de Aguiar, B. Stacey, J. Werfel, G.A. Hoelzer, E.D. Brodie III, P.D. Fields, F. Breden, T.A. Linksvayer, J.A. Fletcher, P.J. Richerson, J. Bever, J.D. Van Dyken, P. Zee. 2010. Multilevel and kin selection in a connected world. *Nature* 463 E8-9
- Sloan, D.B., B. Oxelman, A. Rautenberg and D.R. Taylor. 2009. Phylogenetic analysis of mitochondrial mutation rate variation in the angiosperm tribe Sileneae. *BMC Evolutionary Biology* 9: 260.
- Fields, P.D., Keller, S.R., Ingvarsson, P.K., Pederson, A., and D.R. Taylor. 2009 Isolation and characterization of polymorphic microsatellite loci in the white campion, *Silene latifolia* (Caryophyllaceae). *Molecular Ecology Resources* 3: 358-359.
- Neiman, M. and D.R. Taylor. 2009. The causes of mutation accumulation in mitochondrial genomes. *Proceedings of the Royal Society of London, Biological Sciences*. 276:1201-1209.
- Keller, S.R., Sowell, D.R., Neiman, M., Wolfe, L.M., and D.R. Taylor. 2009. Adaptation and colonization history affect the evolution of clines in two introduced species. *New Phytologist*, 183: 678-690.
- Keller, S.R. and D.R. Taylor. 2008 History, chance, and adaptation during biological invasion: separating stochastic phenotypic evolution from response to selection. *Ecology Letters* 8:852-856.

- Barr, C.M., S.R. Keller, P.K. Ingvarsson, D.B. Sloan, and D.R. Taylor. 2008. Variation in Mutation Rate and Polymorphism Among Mitochondrial Genes of *Silene vulgaris*. *Molecular Biology and Evolution* 25: 243-246.
- Sloan, D.B., C.M. Barr, S.R. Keller, M. Olson and D.R. Taylor. 2008 Evolutionary Rate Variation at Multiple Levels of Biological Organization in Plant Mitochondrial DNA. *Molecular Biology and Evolution* 24:1783-1791.
- Taylor, D.R. and S.R. Keller. 2007. Historical range expansion determines the phylogenetic diversity introduced during contemporary species invasion. *Evolution* 61, 334–345.
- Freedberg, S. and D.R. Taylor. 2007. Sex ratio variance and the maintenance of environmental sex determination. *Journal of Evolutionary Biology* 20 (1), 213–220.
- Rissler, L. J., H. M. Wilbur, and D. R. Taylor. 2005. The influence of ecology and genetics on behavioral variation in salamander populations across the Eastern Continental Divide. *American Naturalist* 164:201-213.
- Olson, M. McCauley, D. and D.R. Taylor. 2005. Genetics and adaptation in structured populations: Sex ratio evolution in *Silene vulgaris*. *Genetica* 123:49-62.
- Church, S.A. and D.R. Taylor. 2005. Speciation and hybridization among *Houstonia* (Rubiaceae) species: The influence of polyploidy on reticulate evolution. *American Journal of Botany* 92:1372-1380.
- Barr, C.M., M. Neiman and D.R. Taylor. 2005. Inheritance and recombination of mitochondrial genomes in plants, fungi and animals. *New Phytologist* 168:39-50.
- G. Bernasconi, T.-L. Ashman, T. R. Birkhead, J.D.D. Bishop, U. Grossniklaus, E. Kubli, D.L. Marshall, B. Schmid, I. Skogsmyr, R.R. Snook, D. Taylor, I. Till-Bottraud, P.I. Ward, D. Zeh, B. Hellriegel. Evolutionary ecology of the pre-zygotic stage in animals and flowering plants. *Science* 303:971-975.
- Vondrasek, J., Antonovics, J. and Taylor, D. 2004. Evolution Kills! A Web Resource for Instructors of Evolutionary Biology. *Bioscene: Journal of College Biology Teaching* 30: 3-8.
- Ingvarsson, P.K., Ribstein, S. and Taylor, D. R. 2003. Molecular Evolution of Insertions and Deletion in the Chloroplast Genome of *Silene*. *Molecular Biology and Evolution* 20:1737-1740.

- Rissler, L.J. and D.R. Taylor. 2003. The phylogenetics of desmognathine salamander populations across the southern Appalachians. *Molecular Phylogenetics and Evolution* 27: 197-211.
- Church, S.A., J.M. Kraus, J.C. Mitchell, D.R. Church and D.R. Taylor. 2003. Evidence for multiple Pleistocene refugia in the post-glacial expansion of the eastern tiger salamander, *Ambystoma tigrinum tigrinum*. *Evolution* 57: 372-383.
- Taylor, D.R. and P.K. Ingvarsson. 2003. Common features of segregation distortion in plants and animals. *Genetica* 117: 27-35.
- Stilwell, K.L, H.M. Wilbur, C.R. Werth and D.R. Taylor. 2003. Heterozygote advantage in the American Chestnut, *Castanea dentata* (Fagaceae). *American Journal of Botany* 90: 207-213.
- Taylor, D.R., C. Zeyl and E. Cooke. 2002. Conflicting levels of selection in the accumulation of mitochondrial defects in *Saccharomyces cerevisiae*. *Proceedings of the National Academy of Sciences*. 99:360-3694.
- Ingvarsson, P.K. and D.R. Taylor. 2002. Genealogical evidence for epidemics of selfish genes. *Proceedings of the National Academy of Sciences*. 99: 11265-11269.
- Church, S. and D.R. Taylor. 2002. The evolution of reproductive isolation in spatially structured populations. *Evolution* 56:1859-1962.
- Delph, L.F., F. N. Knapczyk and D.R. Taylor. 2002. Among-population variation and correlations in sexually dimorphic traits in *Silene latifolia*. *Journal of Evolutionary Biology*. 15: 1011-1020.
- Taylor, D.R. 2002. Ecology and evolution of reduced virulence in the chestnut-blight host pathogen system. pp. 286-296 in *Adaptive Dynamics of Infectious Diseases*, U. Dieckman, J.A.J. Metz, M. Sabelis, K. Sigmund (eds). Cambridge University Press, Cambridge.
- Taylor, D.R., Olson, M., and D. McCauley. 2001. A quantitative genetic analysis of nuclear cytoplasmic male sterility in structured populations of *Silene vulgaris*. *Genetics* 158: 833-841.
- McCauley, D. E., Olson, M.S. and D. R. Taylor. 2001. The influence of metapopulation structure on genotypic fitness in a gynodioecious plant. *Evolutionary Ecology* 14: 181-194.
- McCauley, D. E., M. S. Olson, S. N. Emery, and D. R. Taylor, 2000. Population structure influences sex ratio evolution in a gynodioecious plant. *American Naturalist* 155:814-819.

- Franklin, R., D.R. Taylor and A. Mills. 2000. The distribution of microbial communities in anaerobic and aerobic zones of a shallow coastal plain aquifer. *Microbial Ecology* 38: 377-386.
- Taylor, D.R., M. J. Saur and E. Adams. 1999. Variation in pollen performance and its consequences for sex ratio evolution in a dioecious plant. *Evolution* 53: 1028-1036.
- Taylor, D.R., S. Trimble and D. E. McCauley. 1999. Ecological genetics of gynodioecy in *Silene vulgaris*: relative fitness of females and hermaphrodites during the colonization process. *Evolution* 53: 745-751.
- Taylor, D.R. 1999. Genetics of sex ratio variation among natural populations of a dioecious plant. *Evolution* 53: 55-62.
- Franklin, R., D.R. Taylor and A. Mills. 1999. Characterization of microbial community structure in aquifers using Randomly Amplified Polymorphic DNA (RAPD). *Journal of Microbiological Methods* 35:225-235.
- Taylor, D.R., A.M. Jarosz, R.E. Lenski and D. Fulbright. 1998. Acquisition of hypovirulence in host-pathogen systems with three trophic levels. *American Naturalist* 151: 343-355.
- McCauley, D.E. and D.R. Taylor. 1997. Local population structure and the sex ratio: evolution in gynodioecious plants. *American Naturalist* 150: 406-419.
- Taylor, D.R. 1996. Parental expenditure and offspring sex ratios in the dioecious plant, *Silene alba* (= *S. latifolia*). *American Naturalist* 147: 870-879.
- Crone, E.E. and D.R. Taylor. 1996. Complex dynamics in experimental populations of an annual plant, *Cardamine pennsylvanica*. *Ecology* 77:289-299.
- Taylor, D.R. 1994. Sex ratio in hybrids between *Silene alba* and *Silene dioica*: evidence for Y-linked restorers. *Heredity* 74: 518-526.
- Taylor, D.R. 1994. The genetic basis of sex ratio distortion in *Silene alba*. *Genetics* 136: 341-351.
- Aarssen, L.W. and D.R. Taylor. 1992. Fecundity allocation in herbaceous plants. *Oikos* 65: 222-232.
- Taylor, D.R. 1991. The genetics of aging. *New Horizons*. August 1991.
- Taylor, D.R. 1990. Evolutionary consequences of cytoplasmic sex ratio distorters. *Evolutionary Ecology* 4: 235-248.

- Taylor, D.R. and L.W. Aarssen. 1990. Complex competitive relationships among genotypes of three perennial grasses: Implications for species coexistence. *American Naturalist* 136:305-327.
- Taylor, D.R., L.W. Aarssen, and C. Loehle. 1990. On the relationship between r/K selection and environmental carrying capacity: A new habitat templet for plant life history strategies. *Oikos* 58: 239-250.
- Taylor, D.R. and L.W. Aarssen. 1989. On the density dependence of replacement series competition experiments. *Journal of Ecology* 77: 975-988.
- Taylor, D.R. and L.W. Aarssen. 1988. An interpretation of phenotypic plasticity in *Agropyron repens* (Graminae). *American Journal of Botany* 75: 401-413.

## RESEARCH GRANTS:

### Current:

- 2016 “LTREB Genetic analysis of metapopulation processes in the *Silene-Microbotryum* host-pathogen system.” National Science Foundation. DEB \$500,000. (This is the first 5-year installment of a renewable 10-year award)

### Past:

- 2012 Dissertation Research: Selective constraints, genetic correlations, and divergence of the flavonoid pathway in *Silene vulgaris*. National Science Foundation, DEB \$14,915.
- 2011 International: Collaborative Advancement in Analytical and Theoretical Metapopulation Statistical Genetics. National Science Foundation, OISE. \$14,795.
- 2010 “Mitochondrial genome evolution and cyto-nuclear interactions in divergent mutational environments” National Science Foundation, MCB. 1022128 \$638,0952.
- 2010 Collaborative Research: Paternal Transmission and Recombination of the Mitochondrial Genome in the Plant Genus *Silene*. National Science Foundation DEB 1051199. \$35,000.
- 2009 “Genetic analysis of metapopulation processes in the *Silene-Microbotryum* host-pathogen system.” National Science Foundation, DEB 0919335 \$441,703.



- 2008 National Science Foundation: Dissertation Research: Symbiont evolution and host social structure: bees and nematodes. w/Quinn McFrederick. National Science Foundation. \$11,913.
- 2008 National Science Foundation: Dissertation Research: The Effect of Mutation Rate on Mitochondrial Genome Evolution in the Angiosperm Genus *Silene*. w/Dan Sloan. \$11,913.
- 2006-8 National Science Foundation. Dissertation Research: Separating Stochastic Events From Adaptive Evolution During A Biological Invasion. w/Stephen Keller, \$8,356.
- 2004-8 National Science Foundation. Collaborative Research (RUI): The evolutionary genetics of invasiveness in *Silene latifolia*. ~\$650,000 (with Lorne Wolfe, Georgia Southern University). REU Supplements in 2004-5.
- 2004 National Science Foundation. FIBR Planning Grant. Genome dynamics and the evolution of sexual systems. \$49,500.
- 2003-2004 Jeffress Trust. Molecular Evolution of the melanic color polymorphism in the mosquitoefish, *Gambusia holbrooki*. \$25,000
- 2002-2005 US Department of Agriculture. The population genomics of an invasive weed in its native and introduced ranges. ~\$300,000 Total Award (Collaborative grant with Dave McCauley)
- 2000-2004 National Science Foundation. Natural Selection in Ephemeral Demes: Sex Ratio Evolution in *Silene vulgaris*. Collaborative Research with Dave McCauley. \$485,000 Total Award.
- 1999-2003 National Science Foundation, Career Development Award. Ecology and genetics of the sex ratio polymorphism in natural populations of *Silene latifolia*. \$315,000.
- 2000-2002 Jeffress Memorial Trust. Using Y-Chromosome Microsatellites In *Silene latifolia* To Study The Origin And Spread Of Agriculture In Europe. \$40,000.
- 2000 National Science Foundation. REU Supplement. \$5,000.
- 2000 Jeffress Memorial Trust. Molecular techniques in conservation: population structure of endangered North American *Houstonia*. \$34,346

- 1997-2000 National Science Foundation. Frequency-dependent fitness in structured populations of a gynodioecious plant. \$120,000 (Co-PI with PI, David McCauley).
- 1999 Samuel Miller Foundation. The Chestnut blight host-pathogen system. \$35,000
- 1997 University of Virginia Research Support - Sex ratio evolution in *Silene*. \$13,000.
- 1997 National Science Foundation. Cytoplasmic hyperparasites and their influence of plant pathogen interactions. \$40,402.
- 1997 Dean's Office Support for Undergraduate Research (4 grants of \$300ea.)
- 1992-94 National Science Foundation. The genetic basis of sex ratio distortion in *Silene alba* (co-authored with Janis Antonovics (PI) as a mechanism for post-doctoral support). \$203,858.
1992. Sigma Xi Grant in Aid of Research. Analysis of sex ratio distortion in *Silene alba* using RAPD markers of the Y chromosome. \$915.
- 1990-92 National Science Foundation - Dissertation Improvement. Population dynamics and evolution in heterogeneous environments: Experimental populations of *Cardamine pensylvanica*. \$8,000.

#### **INVITED SEMINARS:**

- 2016 Genetics Society of American Conference on Research Funding (participating in Genetics Advocacy on Capitol Hill, basically lobbying).
- 2013 Lorentz Center Workshop, Recent Insights in Mitochondrial Evolution Applied to Health and Ageing.
- 2012 University of Virginia Science Lunch Series
- 2011 Czech Academy of Sciences, International Conference on Plant Mitochondrial Biology  
Michigan State University, Kellogg Biological Station  
University of Virginia Genome Sciences
- 2010 UNC Greensboro, University of Georgia, University of Iowa
- 2009 Oxford University, Department of Plant Sciences  
Indiana University, Department of Biology  
Weinberg Group, New York, NY *Education*
- 2008 University of Iowa, Department of Biology  
Swiss Academy of Sciences, Ascona Switzerland
- 2007 University of Lausanne, Department of Ecology and Evolution  
University of Minnesota, Department of Ecology and Evolution
- 2006 University of Fribourg, Symposium on Invasive Species

- 2005 University of Virginia, Department of Biology
- 2004 University of Alabama, Department of Biology  
University of Toronto, Department of Botany  
University of Lausanne, Department of Ecology and Evolution
- 2003 University of North Carolina, Biology Department and Genomics Institute  
Swiss National Science Foundation
- 2002 Boston Consulting Group, Strategy Workshop
- 2001 Virginia Tech, Biology Department
- 2000 Indiana University, Biology Department  
University of Georgia, Genetics Department  
University of California, Irvine, Department of Ecology and Evolutionary Biology  
(invited by graduate student population)
- 1999 Duke University Botany Department  
Symposium on Meiotic Drive (ESEB, Barcelona, Spain)  
Cold Spring Harbor
- 1998 Resolution of Evolutionary Conflicts (Economic Strategy Conference, Strategy  
Institute of the Boston Consulting Group & Darden School of Business).
- 1997 Symposium on Virulence Management (IIASA, Vienna, Austria)  
University of Tennessee, Department of Ecology and Evolution  
University of Virginia (Department of Philosophy)
- 1996 University of Virginia (Department of Environmental Sciences)  
University of Virginia (Teaching Resource Center Workshop)
- 1995 Blandy Experimental Farm  
National Youth Science Camp
- 1994 Kellogg Biological Station  
Mountain Lake Biological Station
- 1993 University of Virginia  
University of Kentucky  
University of Rochester  
Vanderbilt University  
Michigan State University
- 1992 Duke University  
Rutger's University

**PROFESSIONAL SERVICE:**

***Associate Editor for:***

- 2008-2012 Ideas in Ecology and Evolution
- 2001-2004 American Naturalist
- 2000-2003 Journal of Evolutionary Biology

***Panelist:***

- 2013-16 Chair, NIH Genetic Variation and Evolution Study Section
- 2013 NIH Genetic Variation and Evolution Study Section, NSG Molecular and  
Evolutionary Genetics (MEG)

- 2012 NSF Molecular and Cellular Biology Panel, NSF Evolutionary Genetics Panel, NIH Genetic Variation and Evolution Study Section
- 2011 NIH Genetic Variation and Evolution Study Section, Spring and Fall
- 2010 NSF Population Biology, DDIG Panel
- 2009 NSF Population Biology, DDIG Panel
- 2003 NSF Population Biology Panel
- 1999 NSF Population Biology Panel

**Reviewer for:**

- 2015 Science, Proceedings of the Royal Society, American Journal of Botany, Molecular Biology and Evolution, Annals of Botany, PLoS Genetics, French National Research Agency (ANR)
- 2014 PNAS, New Phytologist, Royal Society Open Science, Biology Letters, Gene, Molecular Ecology, Proceedings of the Royal Society of London, PLoS Genetics, National Science Foundation (MCB), European Research Council, Swiss National Science Foundation
- 2013 National Institutes of Health, National Science Foundation, Heredity, Molecular Ecology, PLOS One
- 2012 National Institutes of Health, Molecular Biology and Evolution, Molecular Ecology, PLOS One, PNAS, Evolution
- 2011 National Institutes of Health, National Environment Research Council (UK), Molecular Biology and Evolution, Evolution.
- 2010 National Science Foundation, Molecular Ecology, PNAS, Evolution
- 2009 National Science Foundation, Molecular Ecology, New Phytologist, Heredity, American Journal of Biology
- 2008 National Science Foundation, Molecular Ecology, Heredity, Ecology Letters, *The Tangled Bank*, (Textbook by Carl Zimmer)
- 2007 Molecular Ecology, New Phytologist, Genetics, Czech Science Foundation, Proceedings of the Royal Society B
- 2006 Evolution, Heredity, Molecular Ecology
- 2005 Journal of Ecology, Science Academy of Finland
- 2004 American Naturalist, Heredity, PLOS Biology, Genetics.
- 2003 American Naturalist, Molecular Biology and Evolution, Journal of Evolutionary Biology, National Science Foundation, Swiss Science Foundation
- 2002 American Naturalist, Evolution, Molecular Ecology, Journal of Evolutionary Biology, National Science Foundation
- 2001 Journal of Evolutionary Biology, Evolution, American Naturalist, Theoretical Population Biology, American Journal of Botany, Ecology Letters, Finland Academy of Sciences, National Science Foundation
- 2000 Evolution, American Naturalist, Ecology, Journal of Evolutionary Biology, National Science Foundation
- 1999 American Naturalist, Canadian Journal of Botany, Proceedings of the Royal Society of London, National Science Foundation
- 1998 American Naturalist, Evolution, American Journal of Botany
- 1997 American Naturalist, Biological Journal of the Linnaean Society, National Science Foundation, US Department of Agriculture

1996 American Naturalist, Phytopathology, Journal of Evolutionary Biology, Ecology  
1995 American Naturalist, Ecology  
1994 Evolution, Evolutionary Biology  
1992 Mathematical Biosciences  
1991 Ecology

**Member:**

2010 Hamilton Prize Committee, Society for Study of Evolution  
2009 Hamilton Prize Committee, Society for Study of Evolution  
1997 Young Investigator Prize Committee, American Society of Naturalists

**DEPARTMENTAL SERVICE:**

Third Year Review Committee, Member (2015-16)  
Promotion and Tenure Committee, Chair (2014-15)  
Search Committee Chair, Evolutionary Genomics (2014-15)  
Department Chair (2004-2012)  
Director of Graduate Studies (2003)  
Director of Undergraduate Studies (1999-2001)  
Undergraduate Committee (1998-1999)  
Graduate Committee (1994-1998, 2001-2003)  
Departmental Steering Committee (1996-1998)  
Search Committees (Evolutionary Biology-1995, Evolutionary Biology – 1997, several as chair – *ex officio*)  
Ph.D. Thesis Committees by Department:  
    Biology (~50, chair on 10)  
    Environmental Sciences (3)  
    Computer Sciences (1)  
    External (Duke University Botany Department, University of Lausanne Department of Ecology and Evolution)

**UNIVERSITY SERVICE:**

UVA Science and Engineering Research Council (2010-2012)  
Arts and Science Human Outreach Director Search Committee (2009)  
Arts and Science Human Resources Director Search Committee (2009)  
CAS Science Building Planning Committee (2009)  
Arts and Science Associate Dean Search (2000)  
Committee to Appoint Faculty Leaves (1999-2000)  
Arts and Science Dean Search (1997)  
Panel Member - Panel Discussion on early success in academic careers (1997)  
First Year Advisor (1996-1997)

**LECTURE COURSES TAUGHT:**

**Undergraduate:**

The DNA revolution in Science and Society (BIOL 1040)

Genome Sciences (BIOL 4210)  
The Use and Abuse of Darwinism (USEM 170)  
Evolution and Ecology (BIOL 3020)  
Genetics and Evolution (BIOL 301)  
Integrative Biology (BIOL 302)  
Introduction to Evolution (BIOL 307)  
Evolutionary Biology (BIOL 401)  
Ecological and Evolutionary Genetics (BIOL 402)  
Evolutionary Biology Laboratory (BIOL 403)  
Molecular Techniques in Systematics and Evolution (BIOL 533)  
Concepts in Strategy (BIOL/PHIL 386)

**Graduate:**

Advanced Ecology and Evolution (BIOL 8040)  
Colloquium in Population Biology (BIOL 8070)  
Molecular Population Genetics (BIOL 705)  
Evolutionary Biology (BIOL 703)  
Evolutionary Genetics (BIOL 702)  
Theoretical Issues in Conservation Biology

**GRADUATE STUDENTS:**

Gretchen Arnold (MS – Research Scientist, V.I.M.S.)  
Sheri Church (Ph.D. – NSF Bioinformatics Post-doc, Assistant Professor, George Washington University)  
Leslie Rissler (Ph.D. – NSF Bioinformatics Post-doc, Associate Professor Univ. of Alabama, NSF Program Director)  
Kathrine Ross (Graduate Student in Biostatistics)  
Kevin Stilwell (MS – High School Teacher)  
Stephen Keller (Ph.D., Fleming Prize, Assistant Professor, University of Maryland, Assistant Professor, University of Vermont)  
Quinn McFrederick (NSF Post-doc, University of Texas, Austin, Assistant Professor, University of Vermont))  
Daniel Sloan (NIH and Donnelly post-doctoral fellow, Yale University, Assistant Professor, Colorado State University)  
Dexter Sowell (Florida Department of Forestry)  
Peter Fields (Post-doc, University of Basel Switzerland)  
Andrea Berardi (Post-doc, University of Colorado, Boulder)  
Megan Sebasky (MS, Environmental Consultant & GIS Analyst)  
Hilary Edgington (Post-doc, University of Toronto)

**POST-DOCTORAL ASSOCIATES:**

Pär Ingvarsson (Professor, University of Umea, Sweden)  
Lisa Horth (Professor, Old Dominion University)  
Camille Barr (Attorney, deceased)  
Steve Freedberg (Associate Professor, St. Olaf College)

Maurine Nieman (Associate Professor, University of Iowa)  
Stephen Keller (Assistant Professor, University of Vermont)  
Daniel Sloan (Assistant Professor, Colorado State University)  
Deborah Triant (Research Scientist, University of Florida)  
Colleen Ingram (current)

**RECENT COLLABORATORS:** (other than graduate students)

Andrew Alverson  
Janis Antonovics  
Giorgina Bernasconi  
James Bever  
Edmund Brodie III  
Lynda Delph  
Steve Freedberg  
Charles Goodnight  
Richard Lenski  
John Logsdon  
Harry Lewis  
Timothy Linksvayer  
David McCauley  
Maurine Neiman  
Matthew Olson  
Bengt Oxelman  
Jeffrey Palmer  
Paul Richerson  
Helena Storchová  
J.D. Van Dyken  
Michael Wade  
Henry Wilbur  
David Sloan Wilson  
Lorne Wolfe  
Martin Wu  
Peter Zee

**SCIENTIFIC REFERENCES (Available Upon Request):**

**ADMINISTRATIVE/LEADERSHIP REFERENCES (Available Upon Request):**