

Biographical Sketch Dianella G. Howarth

A. Professional Preparation

University of Pennsylvania	Biology	B.A. (with Distinction), 1997
Harvard University	Biology	Ph.D. 2002
Yale University	Plant Biology	Postdoc 2002-2007

B. Appointments

St. John's University	Assistant Professor	2007-present
Yale University	Lecturer	2003-2007

C. Publications

Five Most Relevant Publications

Howarth, D. G. and M. J. Donoghue. Duplications in *DIVARICATA* in the monosymmetric Caprifoliaceae mirror those in the *CYCLOIDEA* lineage. *to be submitted to Mol. Biol. and Evol. in July 2008.*

Howarth, D. G. and M. J. Donoghue. 2006. Phylogenetic Analysis of the "ECE" (CYC/TB1) Clade Reveals Duplications Predating the Core Eudicots. *Proc. Nat. Acad. Sci. USA* 103(24): 9101-9106.

Howarth, D. G. and M. J. Donoghue. 2005. Duplications in *CYC*-like genes from Dipsacales correlate with floral form. *Int. J. Plant Sci.* 166(3): 357-370.

Howarth, D. G. and D. A. Baum. 2005. Genealogical evidence of homoploid hybrid speciation in an adaptive radiation of *Scaevola* (Goodeniaceae) in the Hawaiian Islands. *Evolution* 59(5): 948-961.

Randell, R. A., D. G. Howarth, and C. W. Morden. 2004. Genetic analysis of natural hybrids between endemic and alien *Rubus* (Rosaceae) species in Hawai'i. *Conservation Genetics* 5: 217-230.

Other Significant Publications

Howarth, D. G., M. H. G. Gustafsson, D. A. Baum, and T. J. Motley. 2003. Phylogenetics of the genus *Scaevola* (Goodeniaceae): Implications for dispersal patterns across the Pacific Basin and colonization of the Hawaiian Islands. *American Journal of Botany* 90(6): 915-923.

Howarth, D. G., and D. A. Baum. 2002. Phylogenetic Utility of a Nuclear Intron from Nitrate Reductase for the study of closely related plant species. *Molecular Phylogenetics and Evolution.* 23: 525-528.

Howarth, D. G., D. Gardner, and C. Morden. 1997. Evolution and Biogeography of *Rubus* Subgenus *Idaeobatus* (Rosaceae) in the Hawaiian Islands. *Syst. Bot.* 22(3): 433-441.

D. Synergistic Activities

Society memberships: Society for the Study of Evolution (2005), Botanical Society of America (2001-present), Society of Systematic Biology (1999-present), American Society of Plant Taxonomists (1998-present)

External reviewer of manuscripts - American Journal of Botany, Development Genes and Evolution, Evolution, New Phytologist, Molecular Biology and Evolution, Molecular Phylogenetics and Evolution, Systematic Botany.

External Reviewer: National Science Foundation

Development of upper level undergraduate course at Yale University entitled "Plant Diversity"

E. Collaborators and Other Affiliations

a. Collaborators

Dr. David Baum, Department of Botany, University of Wisconsin

Dr. Michael Donoghue, Department of Ecology and Evolutionary Biology, Yale Univ.

Dr. Don Gardner, Department of Botany, University of Hawaii

Dr. Mats Gustafsson, Department of Biological Sciences, University of Aarhus,

Dr. Clifford Morden, Department of Botany, University of Hawaii

Dr. Timothy Motley, Department of Biological Sciences, Old Dominion University

Rebecca Randell, Department of Biology, Indiana University

b. Graduate and Postdoctoral Advisors

Ph.D. Advisors: Dr. David Baum, Department of Botany, University of Wisconsin and

Dr. Stephen Palumbi, Department of Biological Sciences, Stanford University.

Postdoc Advisor: Dr. Michael Donoghue, Department of Ecology and Evolutionary Biology, Yale University

c. Thesis Advisor and Postgraduate-Scholar Sponsor

Ph.D. thesis advisor, Geraldine Boyden and Sreedevi Goparaju, Department of Biological Sciences, St. John's University

Committee member for Nabanita Chatterjee, Ph.D. student and Yen Thi Hai Vu, Ph.D

student, Department of Biological Sciences, St. John's University

Trained undergraduate and graduate students in molecular techniques, including PCR,

cloning, DNA sequencing, and rtPCR and data analysis in the lab of Dr. Michael Donoghue.