

Michael L. Arnold – Publications

Books

1. Arnold, M.L. 2008. *Reticulate Evolution and Humans – Origins and Ecology*. Oxford University Press.
2. Arnold, M.L. 2006. *Evolution Through Genetic Exchange*. Oxford University Press.
3. Arnold, M.L. 1997. *Natural Hybridization and Evolution*. Oxford Series in Ecology and Evolution, Oxford University Press.

Edited Volume

Arnold, M.L. (ed). 2010. Reticulate Evolution. *Genes*, in preparation.

Journal Articles, Review Articles, Book Chapters and Essays

1. Arnold, M.L. and N.H. Martin. Patterns and causes of consistent asymmetric introgressive hybridization among Louisiana Iris species. *In preparation*.
2. Tang, S., R.A. Okashah, S.J. Knapp and M.L. Arnold and N.H. Martin. 2009. Reproductive isolation in Louisiana irises: Transmission ratio distortion. *Submitted*.
3. Arnold, M.L. and N.D. Fogarty. 2009. Reticulate evolution and marine organisms: The last frontier? *International Journal of Molecular Sciences* 10:3836-3860. **(Invited Review)**
4. Arnold, M.L. and N.H. Martin. 2009. Adaptation by introgression. *Journal of Biology* 8:82.1-82.3. **(Invited Review)**
5. Tang, S., R.A. Okashah, M-M. Cordonnier-Pratt, L.H. Pratt, V.E. Johnson, C.A. Taylor, M.L. Arnold and S.J. Knapp. 2009. EST and EST-SSR marker resources for *Iris*, a basal monocot genus in the Asparagales. *BMC Plant Biology* 9:72.
6. Taylor, S.J., M.L. Arnold and N.H. Martin. 2009. The genetic architecture of reproductive isolation in Louisiana Irises: Hybrid fitness in nature. *Evolution* 63:2581-2594.
7. Zinner, D., M.L. Arnold and C. Roos. 2009. Is the new primate genus *Rungwecebus* a baboon?. *PLoS ONE* 4(3): e4859.
8. Cornman, R.S. and M.L. Arnold. 2009. Transposon insertion polymorphism in *Iris missouriensis* (Iridaceae): Marker development and comparative analysis for two subfamilies of IRRE retrotransposon. *Genetica* 135: 25-38.
9. Arnold, M.L. 2008. Autobiographical Essay. In *Plant Biotechnology*, C.N. Stewart ed. Pp. 23-25. John Wiley & Sons, Inc. **(Invited Essay)**
10. Arnold M.L., R.S. Cornman and N.H. Martin 2008. Hybridization, hybrid fitness and the evolution of adaptations. *Plant Biosystems* 142: 166-171. **(Invited Review)**
11. Arnold, M.L., Sapir, Y. and N.H. Martin. 2008. Genetic Exchange and the Origin of Adaptations – Prokaryotes to Primates. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 363: 2813-2820. **(Invited Review)**
12. Martin, N.H., Y. Sapir and M.L. Arnold. 2008. The genetic architecture of reproductive isolation in Louisiana Irises: Pollination syndromes and pollinator preferences. *Evolution* 62: 740-752.
13. Bouck, A.C., S.R. Wessler and M.L. Arnold. 2007. QTL analysis of floral traits in Louisiana Iris hybrids. *Evolution* 61: 2308-2319.

14. Cornman, R.S. and M.L. Arnold. 2007. Phylogeography of *Iris missouriensis* (Iridaceae) based on nuclear and chloroplast markers. *Molecular Ecology* 16: 4585-4598.
15. Martin, N.H., A.C. Bouck and M.L. Arnold. 2007. The genetic architecture of reproductive isolation in Louisiana Irises: Flowering phenology. *Genetics* 175: 1803–1812.
16. Arnold, M.L. 2006. My academic life in the swamp. *Fleur de Lis* 205: 8-9. **(Invited Essay)**
17. Arnold, M.L. and J.M. Burke. 2006. Natural Hybridization. Pp. 399-413. *In Evolutionary Genetics: Concepts and Case Studies*, C.W. Fox and J.B. Wolf eds. Oxford University Press, Oxford. **(Invited Review)**
18. Arnold, M.L. and A. Meyer. 2006. Natural hybridization in primates: One evolutionary mechanism. *Zoology* 109: 261-276.
19. Martin, N.H., A.C. Bouck and M.L. Arnold. 2006. Detecting adaptive trait introgression between *Iris fulva* and *I. brevicaulis* in highly selective field conditions. *Genetics* 172: 2481-2489.
20. Bouck, A.C., R. Peeler, M.L. Arnold and S.R. Wessler. 2005. Genetic mapping of species boundaries in Louisiana Irises using *IRRE* retrotransposon display markers. *Genetics* 171: 1289-1303.
21. Martin, N.H., A.C. Bouck and M.L. Arnold. 2005. Loci affecting long-term hybrid survivability in Louisiana Irises: Implications for reproductive isolation and introgression. *Evolution* 59: 2116-2124.
22. Arnold, M.L. 2004. Natural hybridization and the evolution of domesticated, pest, and disease organisms. *Molecular Ecology* 13: 997-1007. **(Invited Review)**
23. Arnold, M.L. 2004. Transfer and origin of adaptations through natural hybridization: Were Anderson and Stebbins right? *The Plant Cell* 16: 1-9. **(Invited Review)**
24. Arnold, M.L., A.C. Bouck and R.S. Cornman. 2004. Verne Grant and Louisiana Irises: Is there anything new under the sun? *New Phytologist* 161: 143-149. **(Invited Review)**
25. Arnold, M.L. and E.J. Larson. 2004. Evolution's New Look. *The Wilson Quarterly* (Autumn) pp. 60-72.
26. Cornman, R.S., J.M. Burke, R.A. Wesselingh and M.L. Arnold. 2004. Contrasting genetic structure of adults and progeny in a Louisiana Iris hybrid population. *Evolution* 58: 2669–2681.
27. Johnston, J.A., L.A. Donovan and M.L. Arnold. 2004. Novel phenotypes among early generation hybrids of two Louisiana Iris species: Flooding experiments. *Journal of Ecology* 92: 967-976.
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29. Johnston, J.A., M.L. Arnold and L.A. Donovan. 2003. High hybrid fitness at seed and seedling life history stages in Louisiana Irises. *Journal of Ecology* 91: 438-446.
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31. Marshall, J.L., M.L. Arnold and D.J. Howard. 2003. Reinforcement with multiple mating. *Trends in Ecology and Evolution* 18: 166.
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33. Marshall, J.L., M.L. Arnold and D.J. Howard. 2002. Reinforcement: The road not taken. *Trends in Ecology and Evolution* 17: 558-563. **(Invited Review)**
34. Arnold, M.L., E.K. Kentner, J.A. Johnston, S. Cornman and A.C. Bouck. 2001. Natural hybridization and fitness. *Taxon* 50: 93-104. **(Invited Review)**
35. Burke, J.M. and M.L. Arnold. 2001. Genetics and the fitness of hybrids. *Annual Review of Genetics* 35: 31-52. **(Invited Review)**
36. Johnston, J.A., D.J. Grise, L.A. Donovan and M.L. Arnold. 2001. Environment-dependent performance and fitness of *Iris brevicaulis*, *I. fulva* (Iridaceae) and hybrids. *American Journal of Botany* 88: 933-938.
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43. Burke, J.M., R. Wyatt, C.W. DePamphilis and M.L. Arnold. 2000. Nectar characteristics of interspecific hybrids and their parents in *Aesculus* and *Iris*. *Journal of the Torrey Botanical Society* 127: 200-206.
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45. Wesselingh, R.A. and M.L. Arnold. 2000. Nectar production in Louisiana Iris hybrids. *International Journal of Plant Sciences* 161: 245-251.
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48. Arnold, M.L., M.R. Bulger, J.M. Burke, A.L. Hempel and J.H. Williams. 1999. Natural Hybridization – How Low Can You Go? (And Still Be Important). *Ecology* 80: 371-381. **(Invited Review)**

49. Burke, J.M. and M.L. Arnold. 1999. Isolation and characterization of microsatellites in *Iris*. ***Molecular Ecology*** 8: 1091-1092.
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53. Arnold, M.L. and S.K. Emms. 1998. Paradigm lost - natural hybridization and evolutionary innovations. Pp. 379-389. In ***Endless Forms: Species and Speciation***, D.J. Howard and S.H. Berlocher, eds. Oxford University Press. **(Invited Review)**
54. Burke, J.M., S.E. Carney and M.L. Arnold. 1998. Hybrid fitness in the Louisiana Irises: Analysis of parental and F₁ performance. ***Evolution*** 52: 37-43.
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64. Arnold, M.L. 1995. Natural hybridization -- evolution by amalgamation. ***Special Publications of the Society for Louisiana Irises*** pp. 16-23. **(Invited Review)**
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66. Arnold, M.L. and S.A. Hodges. 1995. The Fitness of Hybrids - A Response to Day and Schluter. ***Trends in Ecology and Evolution*** 10: 289. **(Invited Review)**

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