

EDG 2008: model systems in evolutionary genetics

Jan 30 – *Arabidopsis* discussion

Mitchell-Olds, T., and J. Schmitt. 2006. Genetic mechanisms and evolutionary significance of natural variation in *Arabidopsis*. *Nature* 441:947-952.

Juenger, T. E., T. Wayne, S. Boles, V. V. Symonds, J. McKay, and S. J. Coughlan. 2006. Natural genetic variation in whole-genome expression in *Arabidopsis thaliana*: the impact of physiological QTL introgression. *Molecular Ecology* 15:1351-1365.

Feb 6 – Annie Schmitt, Brown University

Korves, T. M., K. J. Schmid, A. L. Caicedo, C. Mays, J. R. Stinchcombe, M. D. Purugganan, and J. Schmitt. 2007. Fitness effects associated with the major flowering time gene *FRIGIDA* in *Arabidopsis thaliana* in the field. *Am. Nat.* 169:E141-E157.

Scarcelli, N., J. M. Cheverud, B. A. Schaal, and P. X. Kover. 2007. Antagonistic pleiotropic effects reduce the potential adaptive value of the *FRIGIDA* locus. *Proc. Natl. Acad. Sci. U. S. A.* 104:16986-16991.

March 19:

Ellegren, H., and B. C. Sheldon. 2008. Genetic basis of fitness differences in natural populations. *Nature* 452:169-175.

Storz, J. F., S. J. Sabatino, F. G. Hoffmann, E. J. Gering, H. Moriyama, N. Ferrand, B. Monteiro, and M. W. Nachman. 2007. The Molecular Basis of High-Altitude Adaptation in Deer Mice. *PLoS Genetics* 3:e45.

March 26:

Hoekstra, H. E., R. J. Hirschmann, R. A. Bunday, P. A. Insel, and J. P. Crossland. 2006. A single amino acid mutation contributes to adaptive beach mouse color pattern. *Science* 313:101-104.

Payseur, B. A., and H. E. Hoekstra. 2005. Signatures of Reproductive Isolation in Patterns of Single Nucleotide Diversity Across Inbred Strains of Mice. *Genetics* 171:1905-1916.

Lim, MM; Wang, ZX; Olazabal, DE, et al. 2004 Enhanced partner preference in a promiscuous species by manipulating the expression of a single gene. *Nature* 429: 754-757

Nachman MW, Hoekstra HE, D'Agostino SL. 2003. The genetic basis of adaptive melanism in pocket mice. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA* 100: 5268-5273.