

1023-K1-1578      **Timothy F Englund\*** ([tim.englund@cwu.edu](mailto:tim.englund@cwu.edu)), Central Washington University, Department of Mathematics, Ellensburg, WA 98926-7424, and **R. Steven Wagner** ([wagners@cwu.edu](mailto:wagners@cwu.edu)), Central Washington University, Department of Biology, Ellensburg, WA 98926-7537. *Balancing Selection and The Evolution of Color Variation in Pacific Treefrogs (*Hyla regilla*) - An Interactive Lively Activity Project (ILAP)*.

Mathematics and biology faculty at Central Washington University collaborated to develop a module for use in either a pre-calculus or a genetics classroom. Using real data collected from a continuing onsite mark-recapture study of Pacific Treefrogs students explore Hardy-Weinberg equilibrium, genetic fitness and weighted selection. Mathematical tools used include elementary probability, polynomial equations, complex fractions, induction, and limits. (Received September 26, 2006)