Biology Seminar

Speaker: Dr. Allison Miller

Title "Diversity, diversification, and the genomic basis of evolution in perennial crops and their wild relatives"

Abstract: The long-term goals of my research are to advance understanding of perennial plant evolution to better inform sustainable agriculture, crop improvement, and the conservation of plant genomic resources.  Using examples integrating phylogenetics, population genomics, and comparative transcriptomics, I will discuss evolutionary processes in perennial crops and their wild relatives (grape, horseradish, pecan) in relation to diversity patterns, diversification processes, and the genes underlying adaptive variation in traits related to the abiotic environment.