

Post-doctoral position, evolution of plant development

Donald Danforth Plant Science Center

The Kellogg lab at the Donald Danforth Plant Science Center has funding for a post-doc interested in the evolution of genes, genomes, and morphology in the grasses. The project will investigate controls of inflorescence development in grasses related to maize and sorghum, and is a collaborative project with the McSteen lab at University of Missouri-Columbia. We are combining studies of genomics, molecular evolution, plant development, and gene expression to translate results from maize to other cereal crops and wild grasses. Specifically, we are investigating the gene *suppressor of sessile spikelet1*, which controls spikelet pairing, a fundamental aspect of inflorescence architecture in a major clade of grasses. The project will involve studying the molecular evolution of the protein and its genomic context, expression of the gene in the model system *Setaria viridis*, and construction of transgenic plants to test hypotheses of gene regulation.

The successful candidate should have a strong background in molecular evolution, genomics, and/or evolution of development. Candidates with a Ph.D. in plant biology, with strengths in phylogenomic analysis, plant morphology, and methods of studying gene expression are strongly encouraged to apply.

More information about the Kellogg lab is at kellogglab.weebly.com and at <http://www.danforthcenter.org/scientists-research/principal-investigators/elizabeth-kellogg>.

Send resume and three references to:

Donald Danforth Plant Science Center
Human Resources
RE: Postdoc/Kellogg lab
975 North Warson Rd.
St. Louis, MO 63132

Or by email to: careers@danforthcenter.org with “Postdoc/Kellogg Lab” in the subject line.