A post-doctoral position is available in the Gallagher laboratory in the department of Biology at the University of Pennsylvania. The Gallagher laboratory is focused on understanding the mechanisms underlying cell-to-cell signaling and protein trafficking as drivers of plant development and functional diversification of organ development.

There is an opening in the laboratory for a post-doc to study the mechanisms of SHORT-ROOT (SHR) movement. For context, SHR is a member of the conserved group of GRAS family transcription factors. Homologs of SHR have been found in nearly all sequenced plant genomes. In *Arabidopsis thaliana* where SHR has been most extensively studied, intercellular movement of SHR controls the formation of ground tissue cell layers (endodermis and cortex) in the root and formation of the bundle sheath cell layer in leaves. Recent work with SHR homologs from rice and maize suggests that SHR movement controls the number of cortex cell layers in roots and intervacular spacing in leaves that is indicative of Kranz anatomy. The post-doc working on this project would be responsible for testing models regarding the mechanisms of SHR trafficking between cells, developing new protocols for chemically induced dimerization and Co-IP Mass Spec assays.

All members of the Gallagher laboratory are expected to productively engage with other members of the department, participate in seminars, and contribute to activities aimed at educating the public about the importance of research to society and efforts to broaden participation in science.

We recognize that the pursuit of science is advanced by the participation of people from all backgrounds. As such, we strive to create and foster a culture of inclusivity in the laboratory.

To apply for this position, please send an email to gallagkl@sas.upenn.edu. Include in that email your CV and a one-page statement of your previous research experience and interests.