

POSTDOCTORAL RESEARCH POSITION TO ELUCIDATE THE REGULATORY MECHANISMS THAT CONTROL THE ONSET OF FLOWER FORMATION

Doris Wagner Laboratory, University of Pennsylvania, Philadelphia

Effective immediately, we are looking for a postdoctoral researcher interested in studying the regulation of the vital developmental switch to **flower formation** in *Arabidopsis*. We are interested in the events set in motion by the plant specific transcription factor LEAFY and the MADS box transcription factor APETALA1 that lead to floral meristem formation. In addition we are investigating how the onset of flower formation is timed. We use a combination of genetic, genomic, cell biological and molecular approaches to address these questions. For recent examples of our lab's investigations in this area see (Pastore et al., 2011; Winter et al., 2011; Wu et al., 2012; Yamaguchi et al., 2009; Yamaguchi et al., 2013). More details can be found at <http://www.bio.upenn.edu/people/doris-wagner>.

The successful candidate should have a strong publication record, excellent experimental capabilities, be highly motivated, persistent and knowledgeable in Developmental Biology and molecular as well as genetic approaches. Prior experience in gene regulatory networks or computational biology is a plus, but not required. The candidate must be strong in communication and analytical skills and able to work as a team as well as independently.

Salary is commensurate with qualifications and experience. The position will be initially available for one year, with renewal (up to 4-5 years) based on performance and funding availability. The successful candidate will be encouraged to apply for independent fellowships to gain independent programs for his/her future career path.

Those interested should submit a cover letter (1-2 pages) outlining your research interest and career goal, current curriculum vitae, and name and contact information of three referees to the following e-mail address wagnerdo@sas.upenn.edu

Pastore, J.J., Limpuangthip, A., Yamaguchi, N., Wu, M.F., Sang, Y., Han, S.K., Malaspina, L., Chavdaroff, N., Yamaguchi, A., and Wagner, D. (2011). LATE MERISTEM IDENTITY2 acts together with LEAFY to activate APETALA1. *Development* 138, 3189-3198.

Winter, C.M., Austin, R.S., Blanvillain-Baufume, S., Reback, M.A., Monniaux, M., Wu, M.F., Sang, Y., Yamaguchi, A., Yamaguchi, N., Parker, J.E., *et al.* (2011). LEAFY Target Genes Reveal Floral Regulatory Logic, cis Motifs, and a Link to Biotic Stimulus Response. *Dev Cell* 20, 430-443.

Wu, M.F., Sang, Y., Bezhani, S., Yamaguchi, N., Han, S.K., Li, Z., Su, Y., Slewinski, T.L., and Wagner, D. (2012). SWI2/SNF2 chromatin remodeling ATPases overcome polycomb repression and control floral organ identity with the LEAFY and SEPALLATA3 transcription factors. *Proceedings of the National Academy of Sciences of the United States of America* 109, 3576-3581.

Yamaguchi, A., Wu, M.F., Yang, L., Wu, G., Poethig, R.S., and Wagner, D. (2009). The microRNA-regulated SBP-Box transcription factor SPL3 is a direct upstream activator of LEAFY, FRUITFULL, and APETALA1. *Dev Cell* 17, 268-278.

Yamaguchi, N., Wu, M.F., Winter, C.M., Berns, M.C., Nole-Wilson, S., Yamaguchi, A., Coupland, G., Krizek, B.A., and Wagner, D. (2013). A molecular framework for auxin-mediated initiation of flower primordia. *Dev Cell* 24, 271-282.