A Post-doctoral position is available starting after September 1st in the area of plant shoot meristem development and dynamics in the laboratory of G. Venugopala Reddy at the University of California Riverside.

The project will focus on deciphering transcriptional regulation of stem cell maintenance. My lab has shown that stem cell promoting transcription factor-WUSCHEL forms a protein gradient in shoot apical meristems and acts both as a transcriptional activator or repressor in regulating its own levels and also in preventing premature differentiation of stem cell progenitors (1. Yadav RK, Perales M, Gruel J, Girke T, Jönsson H, **Reddy GV**: WUSCHEL protein movement mediates stem cell homeostasis in the Arabidopsis shoot apex. *Genes Dev.* 2011, **25**: 2025-2030. 2. Yadav RK, Perales M, Gruel J, Ohno C, Heisler H, Girke T, Jönsson H and **Reddy GV**: Plant stem cell maintenance involves direct transcriptional repression of differentiation program. *Molecular Systems Biology* 2013 Apr 2;9:654. doi: 10.1038/msb.2013.8).

This project will focus on understanding the regulation and interpretation of WUSCHEL protein gradient. This will involve the application of advanced live imaging technologies along with whole genome approaches aimed at deciphering transcriptional regulation. Experience in using transient gene manipulation systems along with microscopic and basic gene expression analysis is desirable. Previous experience in developmental biology is desirable but not required. Candidate is expected to interact with our collaborators at Sainsbury Laboratory, Cambridge University, UK and at Lund University. Position is available for three years which is renewed each year based on performance. Salary is based on NIH guidelines. UC Riverside provides an interactive atmosphere with ample opportunities for career development. Interested candidates should send CV, a short description of your previous research experience and future research interests to Dr. G. Venugopala Reddy at venug@ucr.edu

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