

Two postdoctoral positions in Plant RNA biology in Texas A&M University

Two postdoctoral positions are available in the laboratory of Dr. Xiuren Zhang in Department of Biochemistry and Biophysics, Texas A&M University (<http://plantnasilencing.tamu.edu>). The Zhang lab utilizes a combination of molecular, biochemical, genetic, and high-throughput sequencing approaches to understand the functions and mechanisms of RNA silencing including epigenetics and posttranscriptional gene silencing in plants, with recent expansion into RNA biology in different organisms. In particular, the Zhang lab has set up close collaboration with the cryo-EM, single-molecule and computational experts within and/or outside the school to lift our research to a higher level. The successful candidates will actively participate in, but not be limited to, the following projects:

- 1) Comprehensively study several novel genes and components in RNA silencing identified through our newly established genetic and biochemical screening systems (**Zhang, et al., 2017. eLife; Zhang, et al., 2017. PNAS; Ma, et al., 2018. Dev Cell; Li, et al., 2020, under review**).
- 2) Host-virus interaction (**Castillo, et al., 2015, eLife; Hu, et al., 2019, PLoS Pathogen**). The Zhang lab has identified new additional host targets of viral suppressors; and is ready to explore the functional relevance of these *bona fide* targets in the host-viral interaction.

Applicants should possess a fresh Ph.D. degree with solid training in biochemistry, molecular biology, genetics, and/or computational analysis with at least one first-authored publication(s) in a prestigious journal from their PhD work. Candidates should be highly motivated and ambitious with excellent oral and written English. One position would favor the candidates with extensive biochemical and molecular expertise (i.e. molecular cloning, functional analysis, protein purification, enzymatic kinetics, and possibly structural analysis). The candidate with knowledge with microRNA pathway or transcription process is a plus.

Applications are accepted immediately until the positions are filled. Salary will be very competitive. The initial appointments are for two years and reappointment will depend on satisfactory job performance and mutual agreement. Interested applicants should send a CV, brief summary of research experience, and contact information for at least three references by email to xiuren.zhang@tamu.edu.