



TWO POSTDOC POSITIONS OPEN:

~Stomatal Development: the mechanisms of cell-state transitions and rewiring of signaling for adaptation~

Keiko Torii Lab; Howard Hughes Medical Institute and University of Texas at Austin

Two postdoctoral positions are available starting Summer 2023 (or negotiable) to study the forefront of plant developmental biology, specifically the mechanisms of stomatal development. The project will be in collaboration with international teams of experts in developmental genetics, genomics and proteomics, cell biology/live-cell imaging, and structural biology. The successful candidates will be actively participating in one of the following projects:

Position 1: Unraveling the functions and regulations of master regulatory transcription factor complexes driving stomatal cell-state transitions.

Position 2: Developing amphibious plant model system, *Rorippa aquatica*, to investigate the molecular basis of adaptation to underwater environment.

Solid backgrounds in basic molecular biology/biochemistry/cell biology/genetics and a demonstrated record of scientific productivity (e.g. a first-authored research manuscript) are required. For position 1, previously demonstrated experimental and dry (standard bioinformatic pipelines) skills in RNA-seq, ChIP-seq, etc, are highly desired. For position 2, previous experience and skills in tissue culture, transformation, and gene editing are a real plus.

For some of our recent publications see: Ikematsu et al. 2023, *Curr Biol*; Chen et al. 2023 *Nat Plants*; Kim et al. 2022 *Nat Plants*; Han et al. 2022 *Dev Cell*; Seo et al. 2022 *PNAS*

Previous experience in growing and maintaining Arabidopsis/other crop plants is not a prerequisite. However, all Torii lab members are expected to grow their own plants for his/her/their own experiments and meticulously maintain transgenic/mutant lines, perform genetic analysis. A candidate must have strong communication and analytical skills, must be self-motivated and success-driven, and be able to work as a team as well as independently.

Salary is commensurate with qualifications and experience; and based on the HHMI or NIH scale. The positions will be initially available for one year, with yearly renewal, up to five years, based on the successful annual performance reviews and funding availability. The successful candidates are encouraged to apply for independent fellowships to gain independent programs for his/her future career path. A preference will be given to candidates within two years of postdoctoral experience.

Send a CV and a cover letter (1-2 pages) outlining your research program and career goals. Indicate the specific project you would like to pursue from the above. We highly welcome creative candidates who have his/her/their own ideas to develop the project. Please provide the names and contacts of three-four referees to:

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HHMI and University of Texas are Equal Opportunity Employer and encourage applications from diverse backgrounds.