

POSTDOCTORAL ASSOCIATE POSITIONS:

Mechanism of Stomatal Patterning and Differentiation

Keiko Torii Lab; Howard Hughes Medical Institute and University of Washington, Seattle

Multiple postdoctoral positions are available to study the mechanism of stomatal patterning and differentiation using integrated and/or cross-disciplinary approaches. Successful candidates will use the molecular biology approach to address the fundamental insight into plant cell signaling/lineage-specific stem cell differentiation. Based on his/her research interest and expertise, the successful candidates will be pursuing one of the following projects that elucidates:

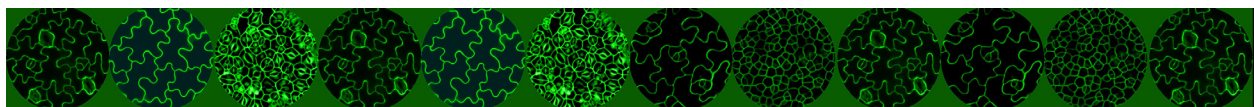
- 1: Intersection of core stomatal development program and small chemical signaling using chemical and synthetic approaches.
- 2: Dynamics and behaviors of receptor kinase signaling that enforces stomatal differentiation using high-resolution/super-resolution imaging and synthetic chemistry.
- 3: Early receptor-kinase signaling events enforcing stomatal patterning using protein biochemistry/proteomics approaches.

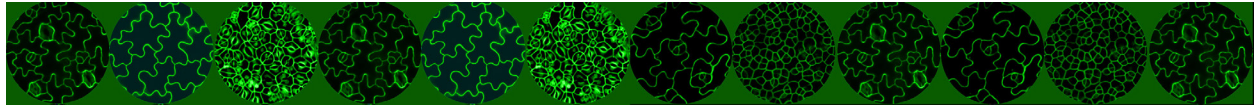
For some of our recent publications, see: Qi et al. 2017 *eLife*: e24102; Tamaehige et al., 2016 *Current Biology* **26**: 2478-2485; Han and Torii 2016 *Development* **143**: 1259-1270; Lee et al. 2015 *Nature* **522**: 439-443; Horst et al. 2015 *PLOS Genetics* e1005374

Solid backgrounds in basic molecular biology and a demonstrated record of scientific productivity (a first-authored research manuscript) are required. Candidates with strong quantitative skills, live imaging expertise, and biochemistry/proteomics backgrounds are highly desired. Previous experience in growing and maintaining *Arabidopsis*/other crop plants is not necessary. However, all Torii lab members are expected to grow their own plants for his/her 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 interested to succeed, and be able to work as a team as well as independently.

Salary is commensurate with qualifications and experience, and based on the HHMI scale. The positions will be initially available for one year, with the renewal based on the performance and funding availability. The successful candidates are encouraged to apply for independent fellowships to gain independent programs for his/her future career path. Due to the guideline of the funding agency, a preference will be given to candidates within two years of postdoctoral experience. While the successful candidates will be based in Seattle, WA, USA, he/she may collaborate with Synthetic Chemists at the Institute of Transformative Biomolecules (ITbM), Nagoya university (<http://www.itbm.nagoya-u.ac.jp/>).

Send a CV and a cover letter (1-2 pages) outlining your research program and career goals. Explain the specific project you would like to pursue and propose the experiments. Also, please names and contacts of three-four referees to:





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

