

# Postdoctoral Position on Plant Metabolism

## *University of Wisconsin-Madison*

**Maeda Laboratory** at University of Wisconsin-Madison studies plant primary metabolic pathways and their regulation using diverse plant species, eventually to improve yield and quality of agricultural and bioenergy crops. We are seeking an independent and self-driven postdoctoral researcher, who can lead a new Department of Energy (DOE)-funded project to construct nitrogen metabolic flux maps of Arabidopsis and sorghum. We will take a variety of approaches, such as high capacity gene synthesis at DOE-Joint Genome Institute (JGI), mass spectrometry-based high throughput enzyme assays, and  $^{15}\text{N}$  stable isotope-labeled metabolic tracer experiments. A highly-motivated person interested in **enzyme biochemistry and evolution, metabolic flux analysis, and plant metabolic pathways and regulation** are encouraged to apply. A prior experience in protein expression/purification, enzyme characterization, metabolite analysis, and/or metabolic flux analysis is a plus but not required. Strong oral and written presentation and communication skills are essential for this position and project, which involves various national and international collaborations (e.g. JGI, Hokkaido Univ., Max Planck).

The position is initially for three years with possibility to continue for additional years. This will be a primary project of initial responsibility, but the person is welcomed to expand the scope of her/his own research in the lab and beyond. University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action employer and we welcome applications from candidates having diverse backgrounds. Madison is the capital city of Wisconsin, 2-hour drive to the north west from Chicago, known to be a vibrant Midwest town yet affordable for living.



Please send your application to <[maeda2@wisc.edu](mailto:maeda2@wisc.edu)> as a *single PDF file* containing i) cover letter, ii) CV, and iii) 2 to 3-page research statement explaining your research interest and future career goal, and why this position and the Maeda lab may be of interest to you. Also, please indicate in your CV the names of at least three referees, who may be contacted for a reference letter.

### Related articles:

Wang et al. (2019) *JBC* 294, 3563-3576; Schenck et al. (2017) *Nature Chem. Biol.* 13, 1029-1035; Schenck et al. (2015) *Nature Chem. Biol.*, 11, 52-57; Dornfeld et al. (2014) *Plant Cell* 26, 3101-3114  
See complete publication list at <[http://maeda.botany.wisc.edu/wiki/Maeda\\_Lab:Publications](http://maeda.botany.wisc.edu/wiki/Maeda_Lab:Publications)>.

*Besides this position, the Maeda lab is always looking for highly-motivate prospective graduate students to work on plant metabolic biochemistry, evolution, and engineering with us. If you have any questions about our research, please do not hesitate to contact Hiroshi Maeda.*

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