

## PRIYA RANJAN

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### **Education and Training:**

Michigan Technological University, Houghton, MI	Molecular Genetics And Biotechnology Bioinformatics	Ph.D.	2005
Indian Institute of Technology (IIT), Mumbai, India	Biotechnology	M.S.	2001
TM Bhagalpur University, Bhagalpur, India	Chemistry (with Honors)	B.S.	1999

### **Research and Professional Experience:**

2015 – Present:	Research Assistant Professor, University of Tennessee, (UT), Knoxville, TN.
2010 – 2015:	Research Scientist, UT
2008 – 2010:	Postdoctoral Fellow, Oak Ridge National Laboratory, Oak Ridge, TN
2006 – 2008:	Postdoctoral Researcher, UT

### **Publications (selected):**

1. Rambani, A., J. H. Rice, J. Liu, T. Lane, P. Ranjan, M. Mazarei, V. Pantalone, C. N. Stewart, M. Staton and T. Hewezi (2015). The methylome of soybean roots during the compatible interaction with the soybean cyst nematode. *Plant Physiology* 168(4):1364-1377.
2. Muchero, W., J. Guo, S. P. DiFazio, J.-G. Chen, P. Ranjan, G. T. Slavov, L. E. Gunter, S. Jawdy, A. C. Bryan and R. Sykes (2015). High-resolution genetic mapping of allelic variants associated with cell wall chemistry in *Populus*. *BMC Genomics* 16(1):24.
3. Evans, L. M., G. T. Slavov, E. Rodgers-Melnick, J. Martin, P. Ranjan, W. Muchero, A. M. Brunner, W. Schackwitz, L. Gunter and J.-G. Chen (2014). Population genomics of *Populus trichocarpa* identifies signatures of selection and adaptive trait associations. *Nature Genetics* 46:1089-1096.
4. Myburg, A. A., D. Grattapaglia, G. A. Tuskan, U. Hellsten, R. D. Hayes, J. Grimwood, J. Jenkins, E. Lindquist, H. Tice, P. Ranjan et al. (2014). The genome of *Eucalyptus grandis*. *Nature* 510: 356-362.
5. Porth, I., J. Klapšte, O. Skyba, J. Hannemann, A. D. McKown, R. D. Guy, S. P. DiFazio, W. Muchero, P. Ranjan and G. A. Tuskan (2013). Genome-wide association mapping for wood characteristics in *Populus* identifies an array of candidate single nucleotide polymorphisms. *New Phytologist* 200(3):710-726.
6. P. Ranjan, T. Yin, X. Zhang, U. C. Kalluri, X. Yang, S. Jawdy and G. A. Tuskan (2010). Bioinformatics-based identification of candidate genes from QTLs associated with cell wall traits in *Populus*. *BioEnergy Research* 3(2):172-182.
7. Yuan, Y., J.-D. Chung, X. Fu, V. E. Johnson, P. Ranjan, S. L. Booth, S. A. Harding and C.-J. Tsai (2009). Alternative splicing and gene duplication differentially shaped the regulation of isochorismate synthase in *Populus* and *Arabidopsis*. *Proceedings of the National Academy of Sciences* 106(51):22020-22025.
8. Rao, M. R., M. D. Halfhill, L. G. Abercrombie, P. Ranjan, J. M. Abercrombie, J. S. Gouffon, A. M. Saxton and C. N. Stewart (2009). Phytoremediation and phytosensing of chemical contaminants, RDX and TNT: identification of the required target genes. *Functional & Integrative Genomics* 9(4):537-547.

9. Abercrombie, J. M., M. D. Halfhill, P. Ranjan, M. R. Rao, A. M. Saxton, J. S. Yuan and C. N. Stewart (2008). Transcriptional responses of *Arabidopsis thaliana* plants to As (V) stress. *BMC Plant Biology* 8(1)1471-2229.
10. P. Ranjan, Y.-Y. Kao, H. Jiang, C. P. Joshi, S. A. Harding and C.-J. Tsai (2004). Suppression subtractive hybridization-mediated transcriptome analysis from multiple tissues of aspen (*Populus tremuloides*) altered in phenylpropanoid metabolism. *Planta* 219(4):694-704.

***Synergistic Activities:***

- Outreach activities at various conferences as senior Bioinformatics Scientist in KBase
- Panelist, National Science Foundation (NSF), Graduate Research Fellowship Program (GRFP), Genetics and Evolutionary Biology Panel, 2011 and 2014
- Associate Editor, *BMC Research Notes*
- Associate Editor, *The Journal of Plant Genomics*
- Reviewer of several peer-reviewed journals including 1) *Bioinformatics*, 2) *Plant Journal*, 3) *Tree Genetics and Genomes*, 4) *Plant Genome*, 5) *International Journal of Plant Genomics*