

Tongji Xing

xtj87515@gmail.com

Education

- 2014-present Rutgers University, New Brunswick, NJ
Ph.D. in genetics (in progress)
- 2012-2014 Appalachian State University, Boone, NC
M.S. in cell and molecular biology
- 2009-2010 Pfeiffer University, Misenheimer, NC
1-year (senior year) exchange study in biological sciences
- 2006-2010 Shanxi University, Taiyuan, China
B.S. in biological sciences

Honors and Awards

- 2014-2015 Rutgers Excellence Fellowship
- 2013-2014 Graduate Research Associate Mentoring (GRAM) Program Stipend at ASU
- 2012 Graduate Teaching Assistantship, Department of Biology at ASU
- 2012-2014 North Carolina Tuition Scholarship
- 2013 Sigma Xi Grant-in-Aid of Research recipient
- 2009- 2010 Pfeiffer University Dean's List
- 2006-2009 Shanxi University Scholarship for Outstanding Students
- 2008 China's National English Contest For College Students First Award

Research Experience

- 2016-present **PhD's thesis project**
Developing a computational cell model as a tool to investigate the effects of transcriptional dynamics on translation
Advisor: Dr. Premal Shah
- 2015-2016 **Research project at Reproductive Medicine Associates of New Jersey**
Evaluated the validity of SNP array to effectively detect segmental aneuploidy and assessed the clinical outcome of embryos predicted to carry segmental imbalances
Advisor: Dr. Nathan Treff
- 2012-2014 **Master's thesis project – Appalachian State University**
Investigating short-term temporal trends in gene expression as factors affecting responses of sensitive and tolerant soybean cultivars to ozone
Cooperative project with Drs. Kent Burkey (USDA, Raleigh, NC) and Jessica Schleuter (Department of Bioinformatics, UNC-Charlotte)
Advisors: Drs. Howard Neufeld and Ted Zerucha, ASU
- 2011-2012 **Participant in a Natural Science Foundation of China (NSFC) funded research program – Shanxi University**
Investigated the role of gasotransmitter hydrogen sulfide in improving tolerance to abiotic stressors in plants and microbes
Advisor: Dr. Yanxi Pei

Teaching Experience

- 2016-present. Genetics Lab (on-line) at Rutgers
 2012 General Biology Lab at ASU

Peer-reviewed Publications

- Carja, O., **Xing, T.**, Plotkin, J. B., & Shah, P. (2017). riboviz: analysis and visualization of ribosome profiling datasets. *bioRxiv*, 100032.
- Goodrich, D., Tao, X., Bohrer, C., Lonczak, A., **Xing, T.**, Zimmerman, R., ... & Treff, N. R. (2016). A randomized and blinded comparison of qPCR and NGS-based detection of aneuploidy in a cell line mixture model of blastocyst biopsy mosaicism. *Journal of Assisted Reproduction and Genetics*, 1-8.
- Olcha, M., Tao, X., Wang, Y., **Xing, T.**, Zhan, Y., Franasiak, J. M., ... & Treff, N. R. (2015). A mitochondrial D loop variant associated with reduced risk of embryonic aneuploidy. *Fertility and Sterility*, 104(3), e307.
- Kort, D.H., Chia, G., Treff, N.R., Tanaka, A.J., **Xing, T.**, Vensand, L.B., Micucci, S., Prosser, R., Lobo, R.A., Sauer, M.V. and Egli, D., (2015). Human embryos commonly form abnormal nuclei during development: a mechanism of DNA damage, embryonic aneuploidy, and developmental arrest. *Human Reproduction*, p.dev281.
- Shen J, **Xing T**, Yuan H, Liu Z, Jin Z, et al. (2013) Hydrogen Sulfide Improves Drought Tolerance in *Arabidopsis thaliana* by MicroRNA Expressions. *PLoS ONE* 8(10): e77047. doi:10.1371/journal.pone.0077047
- Shen, J., Qiao, Z., **Xing, T.**, Zhang, L., Liang, Y., Jin, Z. ... & Pei, Y. (2012). Cadmium toxicity is alleviated by AtLCD and AtDCD in *Escherichia coli*. *Journal of applied microbiology*, 113(5), 1130-1138

Conference Presentation

- Xing, T.**, Neufeld, H.S., Zerucha, T., Rose, A., Schleuter, J., Price, A. and Burkey, K.O. (2013). Short-term temporal trends in gene expression as factors affecting responses of sensitive and tolerant soybean cultivars to ozone- A study in progress (poster presentation). 45th North American Air Pollution Workshop in Portland, OR