Tongji Xing

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Education

2014-present Rutgers University, New Brunswick, NJ
Ph.D. in bioinformatics (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-present Graduate fellowship at Rutgers

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

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

2009-2010 **Senior project – Pfeiffer University**
Developed a method of the free radical DPPH scavenging activity of five commercial supplies and plum extracts
Advisor: Dr. Bill Ledford

2009 **Undergraduate Research Project – Shanxi University**
Conducted research on the structure of LH2 pigment-protein complexes of *Rhodobacter azotoformans* 134K20 and its interactions with different surfactant, lipids and bacteriochlorophyll
Advisor: Dr. Chungui Zhao

Teaching Experience

2012 BIO 1101 General Biology Lab at ASU

2010-2011 Intro-level Oral English and IELTS Reading at Modern English School in Taiyuan, China

Peer-reviewed Publications

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