

Nan Jiang

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Department of Biochemistry and Molecular Biology,
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EDUCATION

- 2008-2015 **Ph.D., Molecular and Cellular Biology**, Department of Environmental and Plant Biology, Ohio University, Athens, OH, USA
Adviser: Dr. Ahmed Faik
Thesis: "Characterization of TaXPo1-1, a Xylan Synthase Complex from Wheat"
- 2004-2008 **B.S., Biology**, Department of Biology, Capital Normal University, Beijing, China

POSTDOCTORAL TRAINING

- 2017-present **Research Associate**, Department of Biochemistry and Molecular Biology, Michigan State University, East Lansing, MI, USA
Adviser: Dr. Erich Grotewold
- 2015-2017 **Postdoctoral Researcher**, Center for Applied Plant Sciences and Department of Molecular Genetics, The Ohio State University, Columbus, OH, USA
Adviser: Dr. Erich Grotewold

MEMBERSHIPS IN SCIENTIFIC SOCIETIES

- 2017- Member, American Association for the Advancement of Science (AAAS)
2017- Member, American Society for Biochemistry and Molecular Biology (ASBMB)
2010- Member, American Society of Plant Biologists (ASPB)

PEER REVIEWED PUBLICATIONS (Google Scholar *h*-index 8; total citations 279)

1. [Jiang N](#), Lee YS, Mukundi E, Gomez-Cano F, Rivero L, Grotewold E. (2020) Diversity of genetic lesions characterizes new *Arabidopsis* flavonoid pigment mutant alleles from T-DNA collections. *Plant Sci*, **291**: 110335.
2. Silva GFF, Silva EM, Correa JPO, Vicente MH, [Jiang N](#), Notini MM, Junior AC, De Jesus FA, Castilho P, Carrera E, López-Díaz I, Grotewold E, Peres LEP, Nogueira FTS. (2019) Tomato floral induction and flower development are orchestrated by the interplay between gibberellin and two unrelated microRNA-controlled modules. *New Phytol*, **221**: 1328-1344.
3. Yang F, Li W, [Jiang N](#), Yu H, Morohashi K, Ouma WZ, Morales-Mantilla DE, Gomez-Cano FA, Mukundi E, Prada-Salcedo LD, Velazquez RA, Valentin J, Mejía-Guerra MK, Gray J, Doseff AI, Grotewold E. (2017) A Maize gene regulatory network for phenolic metabolism. *Mol Plant*, **10**: 498-515.
4. Casas MI, Falcone-Ferreyra ML, [Jiang N](#), Mejía-Guerra MK, Rodríguez E, Wilson T, Engelmeier J, Casati P, Grotewold E. (2016) Identification and characterization of maize *salmon silks* genes involved in insecticidal maysin biosynthesis. *Plant Cell*, **28**: 1297-1309. [Includes the cover of the issue]

5. Jiang N, Wiemels RE, Soya A, Whitley R, Held M, Faik A. (2016) Composition, assembly, and trafficking of a wheat xylan synthase complex. *Plant Physiol*, **170**: 1999-2023.
6. Zeng W, Jiang N, Nadella R, Killen TL, Nadella V, Faik A. (2010) A glucurono(arabino)xylan synthase complex from wheat contains members of the GT43, GT47, and GT75 families and functions cooperatively. *Plant Physiol*, **154**: 78-97.

REVIEWS (PEER REVIEWED)

7. Jiang N, Doseff AI, Grotewold E. (2016) Flavones: From biosynthesis to health benefits. *Plants*, **5**: E27.

INVITED PUBLICATIONS, EDITORIALS, BOOK CHAPTERS AND REVIEWS

8. Held M, Jiang N, Basu D, Showalter A, Faik A. (2015) Plant cell wall polysaccharides: structure and biosynthesis. In *Polysaccharides*. Ramawat KG and Mérillon JM. (eds). Springer, New York, NY. pp. 3-54.
9. Faik A, Jiang N, Held A. (2014) Xylan biosynthesis in plants, simply complex. In *Plants and Bioenergy. Advances in Plant Biology*. Carpita NC, Buckeridge MS, and McCann MC. (eds). Springer, New York, NY. **4**: 153-181.

SCIENTIFIC ACTIVITIES

Scientific Publication Reviewer

- 2017- Plant & Cell Physiology
- 2018- PLOS One
- 2019- New Phytologist
- 2019- F1000Prime associate faculty member

Presentations

- 2019 “Fine-tuning different transcriptional complexes to regulate anthocyanin pigmentation genes”. 61th Annual Maize Genetics Conference, St. Louis, MO (Poster Presentation)
- 2017 “Identification and characterization of candidate genes involved in flavonoid biosynthesis and regulation”. In 28th International Conference on Arabidopsis Research, St. Louis, MO (Poster Presentation)
- 2017 “A Maize Gene Regulatory Network for Phenolic Metabolism”. 59th Annual Maize Genetics Conference, St. Louis, MO (Poster Presentation)
- 2016 “Maysin biosynthesis in maize: identification and characterization of genes related to *salmon silks* mutants”. 58th Annual Maize Genetics Conference, Jacksonville, FL (Poster Presentation)
- 2015 “Characterization of TaXPol-1, a Wheat Xylan Synthase Complex, Reveals New Insights on Enzyme Activities and Trafficking of the Complex”. American Society of Plant Biologists (ASPB), Minneapolis, MN (Oral presentation: Minisymposium 7: Biochem: Bioenergy)
- 2013 “Proteomic analysis of a glucuronoarabinoxylan synthase complex from wheat, and

- in vitro* reconstitution of the activity”. American Society of Plant Biologists (ASPB), Providence, RI (Oral presentation: minisymposium-Cell Walls I)
- 2012 “Characterization and topology of a glucuronoarabinoxylan synthase complex from bread wheat”. Gordon Conference-Plant Cell Walls, Waterville, ME (Poster Presentation)
- 2012 “Characterization and topology of a glucuronoarabinoxylan synthase complex from bread wheat”. American Society of Plant Biologists (ASPB), Austin, TX (Poster Presentation)
- 2010 “Glucurono(arabino)xylan synthase complex from bread wheat: composition, mechanism, product analysis, and functional reconstitution”. American Society of Plant Biologists (ASPB), Montreal, Canada (Poster Presentation)
- 2009 “Biochemical and genetic approaches to investigate glucurono(arabino)xylan synthase complex composition in wheat and *Brachypodium distachyon*”. Gordon Conference-Plant Cell Walls, Smithfield, RI (Poster Presentation)

Scientific Courses and Workshops

- 2017 The Art of Science Communication course offered by the American Society for Biochemistry and Molecular Biology (ASBMB)
- 2017 ATAC-Seq Analysis in Plants Workshop at the International Conference on Arabidopsis Research
- 2017 Data Carpentry Workshop at the International Conference on Arabidopsis Research