

Curriculum Vitae

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Education

09.2013-08.2017

Ph.D, Plant Pathology, University of Nebraska Lincoln

09.2009-09.2013

B.S, Plant Protection, Northwest Agricultural and Forestry University

Professional experience

December 2017-present

NSF Supported Postdoctoral Researcher, James Schnable, University of Nebraska Lincoln:

Quantitative genetic analysis of genetic regulation of variation in gene expression across the roots of a maize diversity panel

August 2017-November 2017

NSF Supported Postdoctoral Researcher, Richard A. Wilson, University of Nebraska Lincoln:

TOR and cPKA regulation of autophagy during appressorium morphogenesis by the rice blast fungus *Magnaporthe oryzae* in response to surface hydrophobicity;

September 2013- August 2017

Research Assistant with Richard A. Wilson, University of Nebraska Lincoln. Project:

Uncovering principles of metabolic regulation orchestrating rice infection by the blast fungus *Magnaporthe oryzae*;

May 2010--May2011

Student supervisor of a STCP Project with Qing Ma, Northwest A&F University. **Project: The Cellular Mechanism Underlying the Non-host Infection of Tomato with Wheat Powdery Mildew.**

Teaching experience

- August 2014-May 2017: Teaching Assistant for Life Science Biology (Life120), University of Nebraska Lincoln;
- November, 2016: Teaching Assistant for Biology of Plant Pathogen (PLPT801), University of Nebraska Lincoln.

Presentations

Quantitative Genetic Analysis of Genetic Regulation of Variation in Gene Expression Across the Roots of a Maize Diversity Panel, 2018 UNL Plant Science Retreat, Nebraska City, October 12-13, 2018;

A novel integral membrane protein (Imp1) mediates TOR signaling in *Magnaporthe oryzae* and is required for deterministic (non-random) appressorium formation and biotrophic growth in rice cells, 29th Fungal genetics Conference, Pacific Grove, California, March 14-19, 2017

Glucose-TOR signaling regulates cell cycle progression and autophagy during appressorium development by the rice blast fungus *Magnaporthe oryzae*, 2016 IS-MPMI XVII Congress, July, 2016;

Peer Reviewed Publications

Sun, G., Elowsky, C., Li, G., & Wilson, R. A. (2018). TOR-autophagy branch signaling via Imp1 dictates plant-microbe biotrophic interface longevity. *PLoS genetics*, *14*(11):e1007814. DOI: 10.1371/journal.pgen.1007814

Sun, G., Qi, X., & Wilson, R. A. (2018). A feed-forward subnetwork emerging from integrated TOR-and cAMP/PKA-signaling architecture reinforces *Magnaporthe oryzae* appressorium morphogenesis. *Molecular Plant-Microbe Interactions* doi:10.11094/MPMI-10-18-0287-R.

Zhang, C., Song, L., Choudhary, M. K., Zhou, B., **Sun, G.**, Broderick, K., ... & Zeng, L. (2018). Genome-wide analysis of genes encoding core components of the ubiquitin system in soybean (*Glycine max*) reveals a potential role for ubiquitination in host immunity against soybean cyst nematode. *BMC plant biology*, *18*(1).149 doi:10.1186/s12870-018-1365-7

Marroquin-Guzman, M^{*}, **Sun, G^{*}**, & Wilson, R. A. (2017). Glucose-ABL1-TOR Signaling Modulates Cell Cycle Tuning to Control Terminal Appressorial Cell Differentiation. *PLoS genetics*, *13*(1), e1006557. DOI: 10.1371/journal.pgen.1006557 (***contributed equally**)

Huang, D., Hu, Y., Sun G. (2014); Phenotype and pathogenicity of *Valsa mali* T-DNA insertion mutants. *Journal of Northwest A&F University (Nature science edition)* *42*(7), 113-121.

Selected awards

August 2013-August 2017, China Scholar Council Scholarship;

August 2016-May 2017, Milton E. Mohr Fellowship;

October 2016, Poster award in Plant science retreat;

July 2016, David H. & Anne E. Larrick Memorial Student Travel Funds;

September 2015-May 2016, Widaman Trust Distinguished Graduate Assistant Award.