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Research Interests

- The molecular mechanism of mineral nutrients affecting plant development and agronomic traits
- Stem cell signaling and shoot architecture

Publication

The maize heterotrimeric G-protein b subunit controls shoot meristem development and immune response, Proceedings of the National Academy of Sciences of the United States of America, 2020, DOI: 10.1073/pnas.1917577116

All together now, a magical mystery tour of the maize shoot meristem, Current Opinion in Plant Biology, 2018, DOI: 10.1016/j.pbi.2018.04.010

Role of heterotrimeric Ga proteins in maize development and enhancement of agronomic traits, PLOS Genetics, 2018, DOI: 10.1371/journal.pgen.1007374

The CLAVATA receptor FASCIATED EAR2 responds to different CLE peptides by signaling through different downstream effectors, Elife, 2018, DOI: 10.7554/eLife.35673

Multiple insertions of COIN, a novel maize Foldback transposable element, in the Conring gene cause a spontaneous progressive cell death phenotype, Plant Journal, 2020, DOI: 10.1111/tbj.14945



Ectopic Overexpression of an Arabidopsis Monothiol Glutaredoxin AtGRXS17 Affects Floral Development and Improves Response to Heat Stress in Chrysanthemum (*Chrysanthemum morifolium* Ramat.), Environmental and Experimental Botany, 2019, DOI: 10.1016/j.envexpbot.2019.103864

Detection of MAPK3/6 phosphorylation during hypersensitive response (HR)-associated programmed cell death in plants, Methods in Molecular Biology, 2018, DOI: 10.1007/978-1-4939-7668-3_14

Glutaredoxins in plant development, abiotic stress response, and iron homeostasis: from model organisms to crops, Environmental and Experimental Botany, 2017, DOI: 10.1016/j.envexpbot.2017.04.007

Signaling from maize organ primordial via FASCIATED EAR3 regulates stem cell proliferation and yield traits, Nature Genetics, 2016, DOI: 10.1038/ng.3567

Ectopic expression of Arabidopsis glutaredoxin AtGRXS17 enhances thermotolerance in tomato (*Lycopersicon Esculentum*), Plant Biotechnology Journal, 2012, DOI: 10.1111/j.1467-7652.2012.00723.x