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### Research Interests

- The molecular mechanism of Pi uptake and homeostasis in plants
- How do the plants sense the external nutrition availability to modulate growth
- New bio-based fertilizer

### Publication

**Identification of vacuolar phosphate efflux transporters in land plants**, Nature Plants, 2019, DOI: 10.1038/s41477-018-0334-3

**Two RING-Finger Ubiquitin E3 Ligases Regulate the Degradation of SPX4, An Internal Phosphate Sensor, for Phosphate Homeostasis and Signaling in Rice**, Molecular Plant, 2019, DOI: 10.1016/j.molp. 2019.04.003

**An SPX-RLI1 Module Regulates Leaf Inclination in Response to Phosphate Availability in Rice**, Plant Cell, 2018, DOI: 10.1105/tpc.17.00738

**ABNORMAL INFLORESCENCE MERISTEM1 Functions in Salicylic Acid Biosynthesis to Maintain Proper Reactive Oxygen Species Levels for Root Meristem Activity in Rice**, Plant Cell, 2017, DOI: 10.1105/tpc.16.00665

**OsCYCP4s coordinate phosphate starvation signaling with cell cycle progression in rice**, Journal



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of integrative plant biology, 2020, DOI: 10.1111/jipb.12885

**Vacuolar phosphate transporters account for variation in phosphate accumulation in *Astragalus sinicus* cultivars**, Crop Journal, 2020, DOI: 10.1016/j.cj.2020.05.005

**OsPTF1, a novel transcription factor involved in tolerance to phosphate starvation in rice**, Plant Physiology, 2005, DOI: 10.1104/pp.105.063115

**Recruitment and remodeling of an ancient gene regulatory network during land plant evolution**, Proc Natl Acad Sci U S A, 2013, DOI: 10.1073/pnas.1305457110

**A basic helix loop helix transcription factor controls cell growth and size in root hairs**, Nature Genetics, 2010, DOI: 10.1038/ng.529

**An ancient mechanism controls the development of cells with a rooting function in land plants**, Science, 2007, DOI: 10.1126/science.1142618