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Research Interests

- •Genetic transformation of nutrients transporter and molecular mechanisms in plants
- •Regulation mechanism of transcription factor related to abiotic stress in plant

Publication

ThPP1 gene, encodes an inorganic pyrophosphatase in Thellungiella halohila, enhanced the tolerance of the transgenic rice to alkali stress, Plant Cell Reports, 2017, DOI: 10.1007/s00299-017-2208-y

Silicon Priming Created an Enhanced Tolerance in Alfalfa (Medicago sativa L.) Seedlings in Response to High Alkaline Stress, Front. 2018, DOI: 10.3389/fpls.2018.00716

Ectopic Expression of a Thellungiella salsuginea Aquaporin Gene, TsPIP1;1, Increased the Salt Tolerance of Rice,Int. J. Mol. 2018, DOI: 10.3390/ijms19082229

Mutagenesis reveals that the OsPPa6 gene is required for enhancing the alkaline tolerance in rice, Frontiers in Plant Science, 2019, DOI: 10.3389/fpls.2019.00759

TsMIP6 Enhances the Tolerance of Transgenic Rice to Salt Stress and Interacts with Target Proteins, Journal of Plant Biology, 2015, DOI: 10.1007/s12374-015-0069-x

The llungiella halophila ThPIP1 gene enhances the tolerance of the transgenic rice to salt stress,



Journal of Integrative Agriculture, 2015, DOI: 10.1016/S2095-3119(15)61045-0

Excessive ammonia inhibited transcription of MsU2 gene and furthermore affected accumulation distribution of allantoin and amino acids in alfalfa Medicago sativa, Journal of Integrative Agriculture, 2015, DOI: 10.1016/S2095-3119(14)60908-4

Expression of tomato SITIP2;2 enhances the tolerance to salt stress in the transgenic Arabidopsis and interacts with target proteins, Journal of Plant Research, 2014, DOI: 10.1007/s10265 -014-0658-7

Tomato SIDREB1 gene conferred the transcriptional activation of drought-induced gene and an enhanced tolerance of the transgenic Arabidopsis to drought stress, Plant Growth Regulation, 2017, DOI: 10.1007/s10725-016-0195-6

Mutagenesis reveals that the rice OsMPT3 gene is an important osmotic regulatory factor, The Crop Journal, 2020, DOI: 10.1016/j.cj.2020.02.001