南京农业大学园艺学院

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Salt and Heat Responsive Gene Regulation in Arabidopsis

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Dr. Huazhong Shi is an Associate Professor at the Sciences of Department of Chemistry and Biochemistry of Texas Tech University. His research focuses in gene regulation in response to environmental stresses in plants, molecular mechanisms of plant salt tolerance, and sulfonation of small molecules and plant stress response. Plants frequently encounter unfavorable conditions that adversely affect their growth, development, and productivity. The research in the Shi lab focuses on understanding how plants cope with environmental stresses at molecular, cellular and organismal levels by employing genetic, molecular and biochemical research tools.

Highlighted Publication:

- Loss of salt tolerance during tomato domestication conferred by variation in a Na+/K+ transporter, Wang Z, Hong Y, Zhu G, Li Y, Niu Q, Yao J, Hua K, Bai J, Zhu Y, Shi H, Huang S, Zhu J-K. EMBO J, 2020, 39: e103256.
- The plasma-membrane polyamine transporter PUT3 is regulated by the Na+/H+ antiporter SOS1 and protein kinase SOS2, Chai H, Guo J, Zhong Y, Hsu C-C, Zou C, Wang P, Zhu J-K, Shi H. New Phytol, 2020, 226: 785-797.
- STCH4/REIL2 confers cold stress tolerance in Arabidopsis by promoting rRNA processing and CBF protein translation", Yu H, Kong X, Huang H, Wu W, Park J, Yum D-J, Lee B-H, Shi H, Zhu J-K. Cell Reports, 2020, 30: 229–242.

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