

# JOURNAL OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE

VOL. 142, NO. 4

CONTENTS

JULY 2017

- 235 Overexpression of a *PIP1* Gene from *Salicornia bigelovii* in Tobacco Plants Improves Their Drought Tolerance  
Xiaobo Sun, Yanming Deng, Lijian Liang, Xinping Jia, Zheng Xiao, and Jiale Su
- 246 Characterization and Transcript Profiling of *PME* and *PMEI* Gene Families during Peach Fruit Maturation  
Yunqing Zhu, Wenfang Zeng, Xiaobei Wang, Lei Pan, Liang Niu, Zhenhua Lu, Guochao Cui, and Zhiqiang Wang
- 260 A PCR-based Assay for Distinguishing between A1 and A2 Mating Types of *Phytophthora capsici*  
Ping Li, Dong Liu, Min Guo, Yuemin Pan, Fangxin Chen, Huajian Zhang, and Zhimou Gao
- 265 Elemental Micronutrient Content and Horticultural Performance of Various Vegetable Amaranth Genotypes  
David R. Byrnes, Fekadu F. Dinssa, Stephen C. Weller, and James E. Simon
- 272 Variation in Ploidy and Karyological Diversity in Different Herbaceous Peony Cultivar Groups  
Lihui Yang, Jianjun Zhang, Jaime A. Teixeira da Silva, and Xiaonan Yu
- 279 Intraspecific, Interspecific, and Interseries Cross-compatibility in Lilac  
Jason D. Lattier and Ryan N. Contreras
- 289 Inheritance and Linkage Mapping of Eastern Filbert Blight Disease Resistance in 'Uebov' Hazelnut  
Gehendra Bhattarai, Shawn A. Mehlenbacher, and David C. Smith
- 298 Karyotype and Fluorescence In Situ Hybridization Analysis of 15 *Lilium* Species from China  
Guangxin Liu, Xiaoling Zhang, Yue Lan, Haoyang Xin, Fengrong Hu, Zhuhua Wu, Jisen Shi, and Mengli Xi
- 306 Genetic Analysis of Flower Size and Production in Diploid Rose  
Shuyin Liang, Xuan Wu, and David Byrne