

- 523 Analysis of Genetic Diversity and Population Structure for the Native Tree *Viburnum rufidulum* Occurring in Kentucky and Tennessee  
Deborah Dean, Phillip A. Wadl, Denita Hadziabdic, William E. Klingeman, Bonnie H. Ownley, Timothy A. Rinehart, Adam J. Dattilo, Brian Scheffler, and Robert N. Trigiano
- 532 Biological and Chemical Characterizations of Allelopathic Potential of Diverse Accessions of the Cover Crop Sunn Hemp  
Muhammad Mansoor Javaid, Manish Bhan, Jodie V. Johnson, Bala Rathinasabapathi, and Carlene A. Chase
- 542 Biomass Accumulation and Allocation, Photosynthesis, and Carbohydrate Status of New Guinea Impatiens, Geranium, and Petunia Cuttings Are Affected by Photosynthetic Daily Light Integral during Root Development  
Christopher J. Currey and Roberto G. Lopez
- 550 Pollen Ontogeny Comparison of Natural Male-Fertile Diploid and Male-Sterile Triploid *Lilium lancifolium* in Korea  
Gyeong Ran Do, Ju Hee Rhee, Wan Soon Kim, Yun Im Kang, In Myung Choi, Jeom Hwa Han, Hyun Hee Han, Su Hyun Ryu, and Han Chan Lee
- 562 Differential Responses of Antioxidants, Abscisic Acid, and Auxin to Deficit Irrigation in Two Perennial Ryegrass Cultivars Contrasting in Drought Tolerance  
Xunzhong Zhang, Erik H. Ervin, Yiming Liu, Guofu Hu, Chao Shang, Takeshi Fukao, and Jasper Alpuerto
- 573 Cinnamate-4-Hydroxylase Gene Is Involved in the Step of Lignin Biosynthesis in Chinese White Pear  
Shutian Tao, Danyang Wang, Cong Jin, Wei Sun, Xing Liu, Shaoling Zhang, Fuyong Gao, and Shahrokh Khanizadeh
- 580 Cytoplasmic Male Sterility in Russian Dandelion  
Katrina J.M. Hodgson-Kratky and David J. Wolyn
- 587 Inhibition of Ethylene Biosynthesis and Associated Gene Expression by Aminoethoxyvinylglycine and 1-Methylcyclopropene and Their Consequences on Eating Quality and Internal Browning of 'Starkrimson' Pears  
Xingbin Xie, Todd Einhorn, and Yan Wang
- 597 Inheritance of Fruit Traits in *Capsicum annuum*: Heirloom Cultivars as Sources of Quality Parameters Relating to Pericarp Shape, Color, Thickness, and Total Soluble Solids  
Lucianne Braga Oliveira Vilarinho, Derly Jose Henriques da Silva, Ann Greene, Kara Denee Salazar, Cristiane Alves, Molly Eveleth, Ben Nichols, Sana Tehseen, Joseph Kalil Khoury Jr., Jodie V. Johnson, Steven A. Sargent, and Bala Rathinasabapathi
- 605 Osmoregulants Involved in Osmotic Adjustment for Differential Drought Tolerance in Different Bentgrass Genotypes  
Nanqing Liu, Yixin Shen, and Bingru Huang
- 614 Inheritance of Flowering Habit in Russian Dandelion  
Katrina J.M. Hodgson-Kratky and David J. Wolyn
- 620 Anatomical and Gene Expression Analyses of Two Blueberry Genotypes Displaying Differential Fruit Detachment  
Tripti Vashisth, D. Scott NeSmith, and Anish Malladi