

JOURNAL OF THE AMERICAN SOCIETY FOR HORTICULTURAL SCIENCE

VOL. 137, NO. 5

CONTENTS

SEPTEMBER 2012

Developmental Physiology

- 275 Severe Shading Reduces Early Fruit Growth in Apple by Decreasing Cell Production and Expansion
Madhumita Dash, Lisa K. Johnson, and Anish Malladi
- 283 Temporal and Spatial Pattern of Indole-3-acetic Acid Occurrence during Walnut Pistillate Flower Bud Differentiation as Revealed by Immunohistochemistry
Ying Gao, Hao Liu, Ningguang Dong, and Dong Pei
- 290 Enhanced Visualization of the Fine Structure of the Stigmatic Surface of Citrus using Pre-fixation Washes
Hazel Y. Wetzstein and S. Edward Law

Environmental Stress Physiology

- 294 Response of Cell Division and Cell Expansion to Local Fruit Heating in Tomato Fruit
Julienne Fanwoua, Pieter de Visser, Ep Heuvelink, Gerco Angenent, Xinyou Yin, Leo Marcelis, and Paul Struik

Genetics and Breeding

- 302 Characterization of Genetic Diversity of Stone Fruit Rootstocks Used in Chile by Means of Microsatellite Markers
María José Arismendi, Patricio Hinrichsen, Ruben Almada, Paula Pimentel, Manuel Pinto, and Boris Sagredo

- 311 Mapping of the Egusi Seed Trait Locus (*eg*) and Quantitative Trait Loci Associated with Seed Oil Percentage in Watermelon
Jason Prothro, Katherine Sandlin, Rattandeep Gill, Eleni Bachlava, Victoria White, Steven J. Knapp, and Cecilia McGregor
- 316 Estimation of Genetic Parameters for 12 Fruit and Vegetative Traits in the University of Florida Strawberry Breeding Population
Vance M. Whitaker, Luis F. Osorio, Tomas Hasing, and Salvador Gezan
- 325 Genetic Variation and Distribution of Pacific Crabapple
Kanin J. Routson, Gayle M. Volk, Christopher M. Richards, Steven E. Smith, Gary Paul Nabhan, and Victoria Wyllie de Echeverria
- 333 Identification of "Duplicate" Accessions within the USDA-ARS National Plant Germplasm System *Malus* Collection
Briana L. Gross, Gayle M. Volk, Christopher M. Richards, Philip L. Forsline, Gennaro Fazio, and C. Thomas Chao
- 343 Phytosterol Variability in Almond Germplasm
Álvaro Fernández-Cuesta, Ossama Kodad, Rafel Socias i Company, and Leonardo Velasco

Photosynthesis; Source-Sink Physiology

- 349 Changes in Photosynthetic Characteristics and Antioxidative Protection in Male and Female Ginkgo during Natural Senescence
Dawei Shi, Xiaodong Wei, Guoxiang Chen, and Yanli Xu
- 361 Corrigendum