

Invited Review

Molecular Basis of Carotenoid Accumulation in Horticultural Crops

.....A. Ohmiya, M. Kato, T. Shimada, K. Nashima, S. Kishimoto and M. Nagata 135

Original Articles

Vertical Migration of ¹³⁷Cs in Japanese Orchards after the Fukushima Daiichi Nuclear Power Plant Accident

.....M. Sato, K. Matsuoka, T. Takase, N. I. Kobayashi, H. Kikunaga, D. Takata, K. Tanoi, T. Ohtsuki, S. Kusaba and K. Yamaguchi 150

Sheet-mulching Cultivation Promotes the Number of Floral Buds via Up-regulation of *Citrus Flowering Locus T* Expression in Two Citrus Cultivars, 'Haraguchi-wase' (*Citrus unshiu* Marcow.) and 'Harehime' (*C. spp.*)

.....M. Iwasaki, F. Nishikawa and H. Fukamachi 164

Sugar Accumulation Profile during the Ripening Process in the Pollination-Constant Non-Astringent Japanese Persimmon 'Akiou'

.....M. Shiraishi and H. Asakuma 172

Utility of Parthenocarpic Interspecific Hybrids Between *Vaccinium corymbosum* and *Vaccinium virgatum* for Breeding Blueberry Cultivars Suitable for Cluster Harvesting

.....C. Miyashita, Y. Koito and I. Ogiwara 180

Effects of Abscisic Acid/Ethephon Treatments on Berry Development and Maturation in the Yellow-green Skinned 'Shine Muscat' Grape

.....Y. Suehiro, K. Mochida, M. Tsuma, Y. Yasuda, H. Itamura and T. Esumi 189

Effects of Gibberellic Acid/Cytokinin Treatments on Berry Development and Maturation in the Yellow-green Skinned 'Shine Muscat' Grape

.....Y. Suehiro, K. Mochida, M. Tsuma, Y. Yasuda, H. Itamura and T. Esumi 202

Effect of Maturation Stage and Storage Temperature and Duration on β -Cryptoxanthin Content in Satsuma Mandarin (*Citrus unshiu* Marc.) Fruit

.....H. Matsumoto, Y. Adachi, Y. Ikoma and M. Kato 214

Microsatellite Marker Development and Population Structure Analysis in Japanese Apricot (*Prunus mume* Sieb. et Zucc.)

.....K. Numaguchi, S. Ishio, Y. Kitamura, K. Nakamura, R. Ishikawa and T. Ishii 222

The Processing Tomato Cultivar 'Natsunoshun' is Susceptible to an Excess or Lack of Soil Moisture after the Flowering Stage

.....Y. Jitsuyama, A. Ichiki, R. Ide, H. Shimura and T. Suzuki 232

Seed Quality and LEA-protein Expression in Relation to Fruit Maturation and Post-harvest Storage of Two Chilies Types

.....M. Martínez-Muñoz, Ó. J. Ayala-Garay, V. H. Aguilar-Rincón, V. Conde-Martínez and T. Corona-Torres 245

Change in Bitterness, Accumulation of Cucurbitacin B and Expression Patterns of CuB Biosynthesis-related Genes in Melon During Fruit Development

.....D. Hua, J. Fu, L. Liu, X. Yang, Q. Zhang and M. Xie 253

Anatomical Analysis of Internally Brown Tomato Fruit

.....K. Suzuki, D. Suzuki, M. Numajiri, J. Matsushiro, M. Yamane and Y. Kiriwa 263

Seasonal Variation in the Yield and Polyphenol Content of Sweet Potato (*Ipomoea batatas* L.) Foliage

.....T. Kobayashi, R. Kurata and Y. Kai 270

Effects of Trehalose and Sucrose on the Vase Life and Physiology of Cut Astilbe (*Astilbe* \times *arendsii* Arends) Flowers

.....E. Villanueva, N. Fujibayashi-Yoshii, S. Matsuzaki, K. Yamazaki, C. Burana and K. Yamane 276

Expression and Functional Analyses of Five B-class Genes in the Grape Hyacinth (*Muscari armeniacum*)

.....K. Miura, M. Nakada, S. Kubota, S. Sato, S. Nagano, A. Kobayashi, M. Teranishi, M. Nakano and A. Kanno 284

Promotion of Flower Opening of Spray-type Carnation Cut Flowers by 3-Pyridinecarboxylic Acid, a Simple Analog of Pyridinedicarboxylic Acids (PDCAs) Including 2,3- and 2,4-PDCAs

.....S. Satoh and Y. Nomura 293

Author Instructions

299