

SHORT COMMUNICATION

Daminozide Alters Anthocyanin Metabolism in Ray Florets of Bronze Chrysanthemum (*Chrysanthemum morifolium* Ramat.)

J. Roepke · T. Jean · K.J. Perkel · T. Blom · G.G. Bozzo 453

ORIGINAL ARTICLES

New Evidence for the Role of Ethylene in Strawberry Fruit Ripening

J.-H. Sun · J.-J. Luo · L. Tian · C.-L. Li · Y. Xing · Y.-Y. Shen 461

Asparagine Enhances Starch Accumulation in Developing and Germinating Lupin Seeds

S. Borek · A. Galor · E. Paluch 471

Protein Kinase *LTRPK1* Influences Cold Adaptation and Microtubule Stability in Rice

W. Liu · S. Ji · X. Fang · Q. Wang · Z. Li · F. Yao · L. Hou · S. Dai 483

Application of Abscisic Acid (S-ABA) to 'Crimson Seedless' Grape Berries in a Mediterranean Climate: Effects on Color, Chemical Characteristics, Metabolic Profile, and S-ABA Concentration

G. Ferrara · A. Mazzeo · A.M.S. Matarrese · C. Pacucci · A. Pacifico · G. Gambacorta · M. Faccia · A. Trani · V. Gallo · I. Cafagna · P. Mastrorilli 491

Light Restriction Delays Leaf Senescence in Winter Oilseed Rape (*Brassica napus* L.)

S. Brunel-Muguet · P. Beauclair · M.-P. Bataillé · J.-C. Avice · J. Trouverie · P. Etienne · A. Ourry 506

Tissue-Specific and Developmental Expression Pattern of Abscisic Acid Biosynthetic Genes in Peach Fruit: Possible Role of the Hormone in the Coordinated Growth of Seed and Mesocarp

R. Falchi · L. Zanon · F. De Marco · A. Nonis · A. Pfeiffer · G. Vizzotto 519

Characterization of Growth-Retardant Effects on Vegetative Growth of Date Palm Seedlings

Y. Cohen · D.D. Aloni · U. Adur · H. Hazon · J.D. Klein 533

Combined Effects of CO₂ Enrichment and Drought Stress on Growth and Energetic Properties in the Seedlings of a Potential Bioenergy Crop *Jatropha curcas*

G. Meng · G. Li · L. He · Y. Chai · J. Kong · Y. Lei 542

Effects of Water-Deficit Irrigation on Hormonal Content and Nitrogen Compounds in Developing Berries of *Vitis vinifera* L. cv. Tempranillo

M. Niculcea · L. Martinez-Lapuente · Z. Guadalupe · M. Sánchez-Díaz · F. Morales · B. Ayestarán · M.C. Antolín 551

Dynamics of Endogenous Phytohormones during Desiccation and Recovery of the Resurrection Plant Species *Haberlea rhodopensis*

D.L. Djilianov · P.I. Dobrev · D.P. Moyankova · R. Vankova · D.Ts. Georgieva · S. Gajdošová · V. Motyka 564

Carbon–Nitrogen Interaction Modulates Plant Growth and Expression of Metabolic Genes in Rice

W. Sun · A. Huang · Y. Sang · Y. Fu · Z. Yang 575

Differential Suppression of Ethylene Biosynthesis and Receptor Genes in ‘Golden Delicious’ Apple by Preharvest and Postharvest 1-MCP Treatments

V. Varanasi · S. Shin · F. Johnson · J.P. Mattheis · Y. Zhu 585

Characterizing Penetration of Aminoethoxyvinylglycine (AVG) through Isolated Tomato Fruit Cuticles

M. Knoche · P.D. Petracek 596

5-Aminolevulinic Acid Ameliorates the Growth, Photosynthetic Gas Exchange Capacity, and Ultrastructural Changes Under Cadmium Stress in *Brassica napus* L.

B. Ali · B. Wang · S. Ali · M.A. Ghani · M.T. Hayat · C. Yang · L. Xu · W.J. Zhou 604

Growth Promotion and Flowering Induction in Mango (*Mangifera indica* L. cv “Ataulfo”) Trees by *Burkholderia* and *Rhizobium* Inoculation: Morphometric, Biochemical, and Molecular Events

S. de los Santos-Villalobos · S. de Folter · J.P. Délano-Frier · M.A. Gómez-Lim · D.A. Guzmán-Ortiz · J.J. Peña-Cabriales 615

Characterization of Phospholipase D from *Arabidopsis thaliana* Callus in Response to *Ent*-Kaurene Diterpenoid Leukamenin E

N. Yang · X.-L. Chen · G. Wu · F.-X. Ding · G.-A. Liu · L. Ding 628

β-Estradiol Protects Embryo Growth from Heavy-Metal Toxicity in Germinating Lentil Seeds

A. Chaoui · E. El Ferjani 636

Multivariate Statistical Analysis of Low-Light Tolerance in Tomato (*Solanum lycopersicum* Mill.) Cultivars and Their Ultrastructural Observations

X. Li · S. Zhu · Y. Liu · S. Xue · W. Li 646

Wood Anatomy and the Development of Interxylary Phloem of *Ipomoea hederifolia* Linn. (Convolvulaceae)

K.S. Rajput · V.S. Patil · K.S. Rao 654

REVIEW

Regulation in Plant Stress Tolerance by a Potential Plant Growth Regulator, 5-Aminolevulinic Acid

N.A. Akram · M. Ashraf 663