

Journal of Plant Growth Regulation

Volume 36, Number 4, 2017

ORIGINAL ARTICLES

Dynamics of Endogenous Indole-3-acetic Acid and Cytokinins During Adventitious Shoot Formation in Ipecac
I. Koike · K. Taniguchi · K. Shimomura · M. Umehara 805

ABA Biosynthesis Genes are Down-regulated While Auxin and Cytokinin Biosynthesis Genes are Up-regulated During the Release of Grapevine Buds From Endodormancy
X. Noriega · F.J. Pérez 814

Effects of Nitrogen and Exogenous *Rhizophagus irregularis* on the Nutrient Status, Photosynthesis and Leaf Anatomy of *Populus × canadensis* ‘Neva’
F. Wu · H. Zhang · F. Fang · N. Wu · Y. Zhang · M. Tang 824

Foliar or Subirrigation Silicon Supply Mitigates High Temperature Stress in Strawberry by Maintaining Photosynthetic and Stress-Responsive Proteins
S. Muneer · Y.G. Park · S. Kim · B.R. Jeong 836

Insect Herbivory of Leaves Affects the Auxin Flux Along Root Apices in *Arabidopsis thaliana*
S. Yan · C. Jiao · E.S. McLamore · N. Wang · H. Yao · Y. Shen 846

Responsiveness of Durum Wheat to Mycorrhizal Inoculation Under Different Environmental Scenarios
I. Garmendia · Y. Gogorcena · I. Aranjuelo · N. Goicoechea 855

The Role of Plant Growth Regulators in a Plant–Aphid–Parasitoid Tritrophic System
H. Zhao · H.-H. Cao · M.-Z. Pan · Y.-X. Sun · T.-X. Liu 868

Exogenous Glutathione Modulates Salinity Tolerance of Soybean [*Glycine max* (L.) Merrill] at Reproductive Stage
S. Akram · Md.N. Siddiqui · B.M.N. Hussain · Md.A. Al Bari · M.G. Mostofa · M.A. Hossain · L.-S.P. Tran 877

MIR166a Affects the Germination of Somatic Embryos in *Larix leptolepis* by Modulating IAA Biosynthesis and Signaling Genes
Z.-X. Li · L.-F. Zhang · W.-F. Li · L.-W. Qi · S.-Y. Han 889

Ethylene Controls Adventitious Root Initiation Sites in *Arabidopsis* Hypocotyls Independently of Strigolactones
A. Rasmussen · Y. Hu · T. Depaepe · F. Vandebussche · F.-D. Boyer · D. Van Der Straeten · D. Geelen 897

Abnormal Somatic Embryo Reduction and Recycling in Grapevine Regeneration
W. Ji · Y. Luo · R. Guo · X. Li · Q. Zhou · X. Ma · Y. Wang 912

Impact of Gamma Irradiation Induced Variation in Cell Growth and Phytoecdysteroid Production in *Sesuvium portulacastrum*
V. Kapare · R. Satdive · D.P. Fulzele · N. Malpathak 919

Impact of Soil Drench and Foliar Spray of 24-Epibrassinolide on the Growth, Yield, and Quality of Field-Grown *Moringa oleifera* in Southwest China
Y. Zheng · B. Xu · K. Ren · Y. Zhang · J. Wu 931

Transcriptome Profiling Reveals the Important Role of Exogenous Nitrogen in Alleviating Cadmium Toxicity in Poplar Plants
F. Zhang · J. Li · J. Huang · L. Lin · X. Wan · J. Zhao · J. Dong · L. Sun · Q. Chen 942

Effects of Gamma Stress and Carbon Dioxide on Eight Bioactive Flavonoids and Photosynthetic Efficiency in *Centella asiatica*

S. Siavash Moghaddam · R. Ibrahim · C.A. Damalas · S.A. Noorhosseini 957

Differential Drought Responses in F-box Gene Expression and Grain Yield Between Two Rice Groups with Contrasting Drought Tolerance

K. Chunthong · K. Pitnjam · S. Chakhonkaen · N. Sangarwut · N. Panyawut · T. Wasinanon · K. Ukoskit · A. Muangprom 970

Combined Applications of Aminoethoxyvinylglycine with Salicylic Acid or Nitric Oxide Reduce Oxidative Stress in Peach During Ripening and Cold Storage

M.J. Tareen · Z. Singh · A.S. Khan · N.A. Abbasi · M. Naveed 983

SHORT COMMUNICATION

Humic-Like Water-Soluble Lignins from Giant Reed (*Arundo donax* L.) Display Hormone-Like Activity on Plant Growth

D. Savy · L. Canellas · G. Vinci · V. Cozzolino · A. Piccolo 995

REVIEW

Analysis of Brassinosteroids in Plants

M.K. Kanwar · A. Bajguz · J. Zhou · R. Bhardwaj 1002