

58

0971-7811
0974-1275

Volume 34 • Issue 3 • July–September 2011

Journal of Plant Biochemistry and Biotechnology

Society for
Plant Biochemistry and
Biotechnology

27/10/25
SB

For Circulation in India only



 Springer

REVIEW ARTICLES

Advances in genome editing in plants within an evolving regulatory landscape, with a focus on its application in wheat breeding

N. Brock · N. Kaur · N.G. Halford 599

Alleviation of environmental stresses in crop plants by nanoparticles: recent advances and future perspectives

R. Verma · A. Singh · S. Khare · P. Kumar 615

Unraveling the multifaceted role of ethephon in plant physiology: from seed germination to crop maturation and harvesting

K. Kowsalya · J. Halka · M. Anand · J.J. Sahayarayan · R. Rajkumar · M. Arun 639

Glycine betaine mitigates cadmium toxicity in plants via redox homeostasis and osmotic adjustment

G.D. Biswal · M. Singh · D.K. Patel · S.M. Prasad 665

ORIGINAL ARTICLES

A multi-platform based metabolic comparison of dill (*Anethum graveolens*) and fennel (*Foeniculum vulgare*) using NMR and UPLC–QTOF/MS

B.-R. Choi · D. Yoon · W.C. Shin · J.-K. Jang · S. Lee · D.Y. Lee 682

Transcriptome of sorghum (*Sorghum bicolor* (L.) Moench) in response to drought stress

J. Ma · Z. Liu · Z. Guo · X. Wang · C. Zou · C. Zhang 694

N-terminal coding sequences of the *Arabidopsis thaliana* nuclear encoded mitochondrial ribosomal protein subunit gene *Rps14* are an integral part of its promoter

S. Lata · N.S. Kushwah · A. Ranjan · R.K. Raipuria · P. Kumar · R. Srinivasan · S.R. Bhat 706

Harnessing microRNAs and their targets for salt stress tolerance in *Pandanus odorifer*

D. Rashmi · V.T. Barvkar · A.B. Nadaf · N.Y. Kadoo 714

Predictive model for resistant starch (RS) in rice (*Oryza sativa* L.) based on digestibility factors

S. Rahaman · M. Awana · D. Goswami · S. Kumari · H. Bollinedi · A. Anand · S. Dash · M. Rao · A. Singh · A.K. Singh · V. Krishnan 731

Nutritional analysis of aqueous and ethanol broccoli sprout extracts

M.V. Ivanochko · K.V. Fediv · V.V. Shvadchak · M.M. Bayliak · V.I. Lushchak 749

Molecular diversity and population structure analysis using simple sequence repeat markers among large collection of pomegranate genotypes (*Punica granatum* L.)

A. Rai · O.P. Awasthi · J. Prakash · K. Durgesh · R. Pandey · P. Chandra · P.K. Singh · S. Jha · R. Sowjanya · M. Kumar · R. Kumar · I.M. Gontia · K. Kumar · N.V. Singh 761

Comparative analysis of secondary metabolites and antioxidant activities in white and red radish (*Raphanus sativus*) hairy roots

J. Lim · J.K. Kim · K. Kim · H. Kwon · H. Seo · R. Sathasivam · S.U. Park · C. Park 774

SHORT COMMUNICATIONS

Selection of microRNA expression reference genes for RT-qPCR in poplar root under low nitrogen stress

C. Wang · T. Fu · Z. Wang · J. Liu · S. Hou · Y. Yin · X. Yang · D. Xiao · Y. Wang 785

Extraction optimization of bioactive compounds from *Vitex negundo* through RSM: GC–MS, FTIR, in silico analysis, and antibacterial activity

E. Sharma · N. Gaur · S. Singh · K. Mathur · K. Kumar · N. Wahi · G. Garg 790

Understanding the genetic diversity and population dynamics for conservation of *Bulbophyllum griffithii* (Lindl.) Rchb.f. - a rare unexplored medicinal orchid

M. Targu · S. Kumaria 808

A systems approach identifies putative targets of the bZIP transcription factor, *PERIANTHIA*, in *Arabidopsis thaliana*

S. Teotia · K. Morohashi · R.S. Lamb 814

Both tobacco TA29 and sesame GN13 promoters provide tapetum-specific GUS expression in transgenic sesame (*Sesamum indicum* L.)

A.J. Debnath · D. Basu · S.R. Sikdar 820

BrachyTonalli 1.0: a Shiny web-based app to explore the transcriptome of *Brachypodium distachyon* ecotypes under low-light, submergence, and normal growth conditions

J.M. Peña-Castro · P. Juntawong · B.E. Barrera-Figueroa · L. Medina-Chávez 828

Further articles can be found at www.springerlink.com

Indexed/abstracted in Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Chemical Abstracts Service (CAS), Google Scholar, CSA, CAB International, Biological Abstracts, BIOSIS, CAB Abstracts, Elsevier Biobase, Food Science and Technology Abstracts, Global Health, Indian Science Abstracts, OCLC, SCImago, Summon by ProQuest

Instructions for Authors for *J. Plant Biochem. Biotechnol.* are available at www.springer.com/13562.