

Table of Contents

Volume 9 Number 6

May 2018

Genome-Wide Identification, Classification and Evolutionary Expansion of KNOX Gene Family in Rice (*Oryza sativa*) and *Populus (Populustrichocarpa)*

H. Z. Xiong, A. Shi, D. X. Wu, Y. J. Weng, J. Qin, S. Ravelombola, X. L. Shu, W. Zhou.....1071

Oryza Wild Species: An Alternative for Rice Breeding under Abiotic Stress Conditions

V. J. Szarecki, I. R. Carvalho, T. C. da Rosa, S. M. Dellagostin, A. J. de Pelegrin, M. H. Barbosa,
O. P. dos Santos, D. S. Muraro, V. Q. de Souza, T. Pedó, T. Z. Aumonde, C. Pegoraro.....1093

Comparative Morphology of the Leaf Epidermis in *Ligusticum* (Apiaceae) from China

J. Zhou, Z. W. Liu.....1105

Detection of Sugar-Regulated Gene Expression and Signaling in Suspension-Cultured Rice Cells

S.-L. Ho.....1124

Methodology of the Tetrazolium Test for Evaluating Physiological Quality in Pitaya (*Hylocereus undatus*) Seeds

T. A. Ortiz, H. F. I. Neto, L. S. A. Takahashi.....1143

Padina pavonica: Morphology and Calcification Functions and Mechanism

M. Benita, Z. Dubinsky, D. Iluz.....1156

Proteolysis in the Subtropical Woody Tree *Anadenanthera colubrina* (Angico) Seeds during and after Germination

D. Barduche, K. G. do Livramento, W. A. S. Judice, L. V. Paiva, L. J. Neto, R. M. Guimarães.....1169

Some Mechanism Seaweeds Employ to Cope with Salinity Stress in the Harsh Euhaline Oceanic Environment

V. van Ginneken.....1191

Potential Use of Multipurpose *Paulownia elongata* Tree as an Animal Feed Resource

W. M. Stewart, B. N. Vaidya, A. K. Mahapatra, T. H. Terrill, N. Joshee.....1212

Salvadora persica (Miswak): Antioxidant and Promising Antiangiogenic Insights

B. Al-Dabbagh, I. A. Elhaty, C. Murali, A. Al Madhoon, A. Amin.....1228

Molecular Characterisation Reveals the Existence of a Hybridogenous Intermediary Form between Sweet Watermelon and Cow Melon Forms of Watermelon

C. Mujaju, R. Musango, L. Garkava-Gustavsson.....1245

Chemical Screening of *Urochloa humidicola*: Methods for Characterizing Secondary Metabolites and Allelopathic Activity on Forage Legumes

R. C. Ribeiro, M. G. de Carvalho, M. D. L. L. de Moraes, R. O. P. Rossiello, D. R. de Oliveira,
R. M. Q. de Amorim, E. Barbieri Jr.....1260

Green Synthesis, Characterization and Antibacterial Activity of ZnO Nanoparticles

H. Upadhyaya, S. Shome, R. Sarma, S. Tewari, M. K. Bhattacharya, S. K. Panda.....1279

Modeling Leaf Area Estimation for Arabica Coffee (*Coffea arabica* L.) Grown at Different Altitudes of Mana District, Jimma Zone

Z. Misgana, G. Daba, A. Debela.....1292

Tolerance of New Introgressive Hybrid and Backcross Forms Pathogenic Micromitisms (*Verticillium dahliae* Kleb and *Fusarium oxysporum* f.sp. *vasinfectum*)

B. A. Sirojodinov, A. Abdullayev, A. G. Sherimbetov, A. A. Narimanov, B. A. Omonov.....1308

Efficacy of 2,4-D, Dicamba, Glufosinate and Glyphosate Combinations on Selected Broadleaf Weed Heights

D. D. Joseph, M. W. Marshall, C. H. Sanders.....1321

Transcriptome Analysis of Ten Days Post Anthesis Elongating Fiber in the Upland Cotton (*Gossypium hirsutum*) Chromosome Substitution Line CS-B25

C.-Y. Hsu, M. A. Arick II, Q. Miao, S. Saha, J. N. Jenkins, M. S. Ayubov, I. Y. Abdurakhmonov,
D. G. Peterson, D.-P. Ma.....1334

Screening for Resistance Mechanisms in Cowpea Genotypes on *Alectra vogelii*

P. K. Christopher, K. H. Vernon, B. James, M. Peter.....1362