

TABLE OF CONTENTS

Volume 4 Number 1

January 2013

Applying Molecular Breeding to Improve Soybean Rust Resistance in Vietnamese Elite Soybean T. D. Khanh, T. Q. Anh, B. C. Buu, T. D. Xuan.....	1
Chemical Constituents of the Root Essential Oils of <i>Zingiber rubens</i> Roxb., and <i>Zingiber zerumbet</i> (L.) Smith D. N. Dai, T. D. Thang, L. T. M. Chau, I. A. Ogunwande.....	7
Water Stress in <i>Beta vulgaris</i>: Osmotic Adjustment Response and Gene Expression Analysis in ssp. <i>vulgaris</i> and <i>maritima</i> P. Vastarelli, A. Moschella, D. Pacifico, G. Mandolino.....	11
Effect of Tillage and Nitrogen on Wheat Production, Economics, and Soil Fertility in Rice-Wheat Cropping System K. Usman, E. A. Khan, N. Khan, M. A. Khan, S. Ghulam, S. Khan, J. Baloch.....	17
Nature of Gene Action and Maternal Effects for Pod Borer, <i>Helicoverpa armigera</i> Resistance and Grain Yield in Chickpea, <i>Cicer arietinum</i> V. L. Narayanamma, C. L. L. Gowda, M. Sriramulu, M. A. Ghaffar, H. C. Sharma.....	26
Variation in the Leaf Number of <i>Arisaema iyoanum</i> subsp. <i>nakaianum</i> and <i>A. ovale</i> var. <i>ovale</i> (Araceae) K. Matsuyama, H. Hayakawa, Y. Muramatsu, K. Ito, S.-I. Tebayashi, R. Arakawa, J. Yokoyama, T. Fukuda.....	38
Correlation, Regression and Path Analyses of Seed Yield Components in <i>Crambe abyssinica</i>, a Promising Industrial Oil Crop B. L. Huang, Y. M. Yang, T. T. Luo, S. Wu, X. Z. Du, D. T. Cai, E. N. van Loo, B. Q. Huang.....	42
Food Conditioning Affects Expression of Insect Resistance in Diploid Willows (<i>Salix</i> spp.) C. Björkman, K. Eklund, A. Lehrman, J. A. Stenberg.....	48
The Potato Late Blight Caused by <i>Phytophthora infestans</i> Mont de Bary as Selection Factor of Phureja Potatoes (<i>Solanum phureja</i> Juz et Buk) in Endemic Areas of the Bolivian Andes M. Coca-Morante, I. Tolín-Tordoya.....	53
Nitrogen and Potassium Dynamics in Tea Cultivation as Influenced by Fertilizer Type and Application Rates K. Sitienei, P. G. Home, D. M. Kamau, J. K. Wanyoko.....	59
Weeds of Wheat Crop and Their Control Strategies in Dera Ismail Khan District, Khyber Pakhtun Khwa, Pakistan S. K. Marwat, K. Usman, N. Khan, M. U. Khan, E. A. Khan, M. A. Khan, A. U. Rehman.....	66
Antibacterial Activity and Phytochemical Analysis of <i>Mentha piperita</i> L. (Peppermint)—An Important Multipurpose Medicinal Plant P. Sujana, T. M. Sridhar, P. Josthna, C. V. Naidu.....	77

Characterization of a <i>Tos17</i> Insertion Mutant of Rice Auxin Signal Transcription Factor Gene, <i>OsARF24</i>	
T. Sakamoto, Y. Inukai.....	84
Analysis of Nonpolar Components from Ginseng of Different Ages	
Y. Z. Zhang, X. N. Lyu, T. Liu, J. P. Luo, W. J. Zhang, Q. Mu.....	92
Ethnobotanical Study of Medicinal Plants of Semi-Tribal Area of Makerwal & Gulla Khel (Lying between Khyber Pakhtunkhwa and Punjab Provinces), Pakistan	
A. Shah, S. K. Marwat, F. Gohar, A. Khan, K. H. Bhatti, M. Amin, N. U. Din, M. Ahmad, M. Zafar.....	98
TDZ-Induced High Frequency Plant Regeneration through Direct Shoot Organogenesis in <i>Stevia rebaudiana</i> Bertoni: An Important Medicinal Plant and a Natural Sweetener	
H. Lata, S. Chandra, Y.-H. Wang, V. Raman, I. A. Khan.....	117
Phenolic Compounds Influence Seed Dormancy of <i>Palicourea rigida</i> H.B.K. (Rubiaceae), a Medicinal Plant of the Brazilian Savannah	
M. C. Inácio, R. M. Moraes, P. C. Mendonça, L. J. F. Morel, S. C. França, B. W. Bertoni, A. M. S. Pereira.....	129
Protein Profiles and Dehydrin Accumulation in Some Soybean Varieties (<i>Glycine max</i> L. Merr) in Drought Stress Conditions	
E. L. Arumingtyas, E. S. Savitri, R. D. Purwoningrahayu.....	134
Effect of 1-MCP on Gas Exchange and Carbohydrate Concentrations of the Cotton Flower and Subtending Leaf under Water-Deficit Stress	
D. A. Loka, D. M. Oosterhuis.....	142
Synergistic Influence of Pre-Harvest Calcium Sprays and Postharvest Hot Water Treatment on Fruit Firmness, Decay, Bitter Pit Incidence and Postharvest Quality of Royal Delicious Apples (<i>Malus x domestica</i> Borkh)	
R. R. Sharma, D. Singh, R. K. Pal.....	153
Null Alleles in Gliadin Coding Loci and Wheat Allergenic Properties	
J. Waga, J. Zientarski, M. Szaleniec, K. Obtulowicz, W. Dyga, A. Skoczowski.....	160
Do Really Close Stomata by Soil Drying ABA Produced in the Roots and Transported in Transpiration Stream?	
J. S. Lee.....	169
Model Examination for the Effect of Treading Stress on Young Green Barley (<i>Hordeum vulgare</i>)	
R. Koga, T. X. Meng, E. Nakamura, C. Miura, N. Irino, S. Yahara, R. Kondo.....	174
Evaluation of Soil Water Management Difference in Mango Orchards between Thailand and Japan	
K. Yuge, E. Yasunaga, S. Fukuda, W. Spreer, V. Sardud, W. Pattanopo.....	182

The figure on the front cover is from the article published in American Journal of Plant Sciences, 2013, Vol. 4, No. 1, pp. 117-128 by Hemant Lata, *et al.*