

# CONTENTS

## Genetics

- JIN, F.F. and WEI, L.: The Expression Patterns of Three *VRN* Genes in Common Wheat (*Triticum aestivum* L.) in Response to Vernalization ..... 1
- LIU, Y., WANG, S., WANG, C., CHEN, G., CAO, H., WANG, Y., MA, W., HU, Y. and YAN, Y.: Comparative Proteomic Analysis of Wheat Developing Grains between Chinese Spring and 1S/1B Substitution Line ..... 13
- LIU, D.J., WANG, Y.B., GUO, C.H., CONG, Q., GONG, X. AND ZHANG, H.J.: Enhanced Iron and Zinc Accumulation in Genetically Engineered Wheat Plants Using Sickle Alfalfa (*Medicago falcata* L.) Ferritin Gene ..... 24
- WANG, Y.Q., HOU, X.J., ZHANG, B., CHEN, W.J., LIU, D.C., LIU, B.L. and ZHANG, H.G.: Identification of a Candidate Gene for Rc-D1, a Locus Controlling Red Coleoptile Colour in Wheat ..... 35
- LU, J., JI, G.Z., LI, G., WU, Y.F., YANG, J., LIN, S.L., YANG, D.L., ZHAO, J.N. and XIU, W.M.: Development of a Multiplex Event-specific PCR Assay for Detection of Genetically Modified Rice ..... 47
- HU, B.-L., HUANG, D.-R., XIAO, Y.-Q., FAN, Y.-Y., CHEN, D.-Z. and ZHUANG, J.-Y.: Mapping QTLs for Mineral Element Contents in Brown and Milled Rice Using an *Oryza sativa* × *O. rufipogon* Backcross Inbred Line Population ..... 57

## Physiology

- GONZÁLEZ, J.M., FRIERO, E., SELFA, L., FROILÁN, S. and JOUVE, N.: A Comparative Study of Root System Architecture in Seedlings of *Brachypodium* spp. Using Three Plant Growth Supports ..... 69
- VASEVA, I.I., ZEHIROV, G., KIROVA, E. and SIMOVA-STOILOVA, L.: Transcript Profiling of Serine- and Cysteine Protease Inhibitors in *Triticum aestivum* Varieties with Different Drought Tolerance ..... 79
- LAVINSKY, A.O., MAGALHÃES, P.C., DINIZ, M.M., GOMES-JR, C.C., CASTRO, E.M. and ÁVILA, R.: Root System Traits and its Relationship with Photosynthesis and Productivity in Four Maize Genotypes under Drought ..... 89

IRAKLI, M.N., SAMANIDOU, V.F., KATSANTONIS, D.N., BILIADERIS, C.G. and PAPADOYANNIS, I.N.: Phytochemical Profiles and Antioxidant Capacity of Pigmented and Non-pigmented Genotypes of Rice ( <i>Oryza sativa</i> L.) .....	98
---	----

KIM, Y.-H., KHAN, A.L., WAQAS, M., SHAHZAD, R. and LEE, I.-J.: Silicon-mediated Mitigation of Wounding Stress Acts by Up-regulating the Rice Antioxidant System .....	111
---	-----

### **Pathology**

CAMERINI, M., AMORIELLO, T., AURELI, G., BELOCCHI, A., FORNARA, M., MELLONI, S. and QUARANTA, F.: Deoxynivalenol Content in Italian Organic Durum Wheat: Results of a Six-Year Survey .....	122
---	-----

CHUMTHONG, A., WIWATTANAPATAPEE, R., VIERNSTEIN, H., PENGNOO, A. and KANJANAMANESATHIAN, M.: Spray-dried Powder of <i>Bacillus megaterium</i> for Control of Rice Sheath Blight Disease: Formulation Protocol and Efficacy Testing in Laboratory and Greenhouse .....	131
---	-----

ABERA, W., SHIMELIS, H., DERERA, J., WORKU, M. and LAING, M.: Northern Leaf Blight Response of Elite Maize Inbred Lines Adapted to the Mid-altitude Sub-humid Tropics .....	141
---	-----

ALDAOUDE, A. SHOAIB, A., AL-SHEHADAH, E., RAJEH, JAWHAR, M. and ARABI, M.I.E.: Transcriptome Profile of Early Responsive Genes in Susceptible Barley during <i>Rhynchosporium secalis</i> Infection .....	153
---	-----

### **Breeding**

MAYEL, A., CHAUDHARY, H.K., BADIYAL, A. and JAMWAL, N.S.: Comparative Pollination Efficiency of Freshly Harvested Pollen of <i>Imperata cylindrica</i> and <i>Zea mays</i> for Haploid Induction in Bread Wheat .....	162
---	-----

### **Agronomy**

AMIN, M., AHMAD, R., ALI, A., ASLAM, M. and LEE, D.J.: Silicon Fertilization Improves the Maize ( <i>Zea mays</i> L.) Performance under Limited Moisture Supply .....	172
---	-----