

CONTENTS

Genetics

- RAVEENDAR, S., LEE, G.A., LEE, K.J., SHIN, M.J., LEE, J.R., LEE, S.Y., CHO, G.T., MA, K.H. and CHUNG, J.W.: The Complete Chloroplast Genome of Pearl Millet (*Pennisetum glaucum* (L.) R. Br.) and Comparative Analysis within the Family Poaceae 1
- CHUMANOVA, E.V., EFREMOVA, T.T., TRUBACHEEVA, N.V. and PERSHINA, L.A.: Effects of Alien Substitutions of Chromosomes of Homoeologous Group 7 on the Heading Time of Wheat-barley Substitution Lines (*Triticum aestivum* L. – *Hordeum marinum* ssp. *gussoneanum* 4x Hudson) 11
- LI, Y., ZHOU, K., JIANG, M., ZHANG, B., ASLAM, M. and ZOU, H.: Assessment of Drought Tolerance Based Impacts with Over-expression of ZMLTP3 in Maize (*Zea mays* L.) 22

Physiology

- OSTROWSKA, A., BIESAGA-KOŚCIELNIAK, J., GRZESIAK, M.T. and HURA, T.: Physiological Responses of Spring Wheat to 5-Aminolevulinic Acid under Water Stress Applied at Seedling Stage 32
- ARATA, A.F., DINOLFO, M.I., MARTÍNEZ, M. and LÁZARO, L.: Effects of Waterlogging during Grain Filling on Yield Components, Nitrogen Uptake and Grain Quality in Bread Wheat 42
- LUO, X., HAN, C., DENG, X., ZHU, D., LIU, Y. and YAN, Y.: Identification of Phosphorylated Proteins in Response to Salt Stress in Wheat Embryo and Endosperm during Seed Germination 53

Pathology

- ZHENG, J.C., LIU, T., LI, J.Q., WANG, X., LI, W.Y., XU, F. and ZHAN, Q.W.: Virus-induced Gene Silencing of *TaERECTA* Increases Stomatal Density in Bread Wheat 67
- PIRSEYEDI, S.M., KUMAR, A., GHAVAMI, F., HEGSTAD, J.B., MERGOUN, M., MAZAHERI, M., KIANIAN, S.F. and ELIAS, E.M.: Mapping QTL for *Fusarium* Head Blight Resistance in a Tunisian-derived Durum Wheat Population 78

PALICOVÁ, J. and MATUŠINSKY, P.: Reaction of Eyespot Causal Agents to some Active Ingredients of Fungicides In Vitro	88
--	----

CHI, W.J., WANG, Z.Y., LIU, J.M., ZHANG, C., WU, Y.H. and BAI, Y.J.: Ammonium Uptake and Assimilation are Required for Rice Defense against Sheath Blight Disease	98
---	----

Quality and Utilization

DEMICHELIS, M., VANZETTI, L.S., CRESCENTE, J.M., NISI, M.M., PFLÜGER, L., BAINOTTI, C.T., CUNIBERTI, M.B., MIR, L.R. and HELGUERA, M.: Significant Effects in Bread Making Quality Associated with the Gene Cluster <i>Glu-D3/Gli-D1</i> from the Bread Wheat Cultivar Prointa Guazú	111
--	-----

Breeding

GREVENIOTIS, V., ZOTIS, S., SIOKI, E. and IPSILANDIS, C.G.: Improving Pedigree Selection in Applied Breeding of Barley Populations	123
--	-----

SSERUMAGA, J.P., MAKUMBI, D., WARBURTON, M.L., OPIYO, S.O., ASEA, G., MUWONGE, A.B. and KASOZI, C.L.: Genetic Diversity among Tropical Provitamin A Maize Inbred Lines and Implications for a Biofortification Program	134
--	-----

KOLAWOLE, A.O., MENKIR, A., BLAY, E., OFORI, K. and KLING, J.G.: Changes in Heterosis of Maize (<i>Zea mays</i> L.) Varietal Cross Hybrids after Four Cycles of Reciprocal Recurrent Selection	145
---	-----

DASKALOVA, N., DONEVA, S., STANOEVA, Y., BELCHEV, I. and SPETSOV, P.: Progress in Tetraploid Wheat Breeding through the Use of Synthetic Hexaploid Amphiploids	157
--	-----

ETMINAN, A., POUR-ABOUGHADAREH, A., MOHAMMADI, R., SHOOSHTARI, L., YOUSEFIAZARKHANIAN, M. and MORADKHANI, H.: Determining the Best Drought Tolerance Indices using Artificial Neural Network (ANN): Insight into Application of Intelligent Agriculture in Agronomy and Plant breeding	170
---	-----

Agronomy

PENG, B., LI, P., LAI, S., WANG, Y., YANG, L. and WANG, Y.: Effect of Ozone Stress on the Absorption, Distribution, and Utilization of Nitrogen in Rice under Different Planting Densities	182
--	-----