

Contents

- Water-yield relations of maize (*Zea mays* L) in temperate climatic conditions.** Borivoj Pejić, Basant Maheshwari, Srdjan Šeremešić, Ružica Stričević, Maria Pacureanu-Joita, Milica Rajić, Branko Čupina 315
- Quantitative trait loci for metal accumulation in maize leaf.** Roberta Sorić, Tatjana Ledenčan, Zvonimir Zdunić, Antun Jambrović, Ivan Brkić, Zdenko Lončarić, Vlado Kovačević, Domagoj Šimić 323
- Screening of phytic acid and inorganic phosphorus contents in corn inbred lines and F1 hybrids in tropical environment.** Pantipa Na Chiangmai*, Phakatip Yodmingkhwan, Phrutiya Nilprapruck, Chokeychai Aekatasanawan, Mana Kanjanamaneesathian 331
- Maize synthetics from a mixture of single, three-way, and double cross hybrids using inbreeding coefficients and mean predictions.** Fidel Márquez-Sánchez 341
- Preliminary results of variability in mechanical-induced volatile root-emissions of different maize cultivars.** Žiga Laznik*, Iztok J Košir, Ludvik Rozman, Milica Kač, Stanislav Trdan 343
- Testcross performance of doubled haploid maize lines derived from tropical adapted back-cross populations.** Yoseph Beyene, Stephen Mugo, Kiru Pillay, Tadele Tefera, Sammy Ajan-ga, Stephen Njoka, Haron Karaya, John Gakunga 351
- Potential of tropical maize populations for improving an elite maize hybrid.** Hongjun Yong, Jianjun Wang, Zhipeng Liu, Mingshun Li, Degui Zhang, Xinhai Li, Shihuang Zhang 359
- Temperature at night affects the genetic control of acclimation to cold in maize seedlings.** Orlene Guerra-Peraza, Jörg Leipner, Regina Reimer, Ha Thuy Nguyen, Peter Stamp, Yvan Fracheboud 367
- Genomic localization of the maize cross-incompatibility gene, *Gametophyte factor1 (ga1)*.** Josie C Bloom, James B Holland 379
- Silage maize (*Zea mays* L) ripening behaviour affects nitrate leaching over following winter.** Jürgen Müller, Manfred Kayser, Johannes Isselstein 389
- Characterization of a set of chromosome single-segment substitution lines derived from two sequenced elite maize inbred lines.** Ming-Yang Lu, Xin-Hai Li, Ai-Lan Shang, Yu-Min Wang, Zhang-Ying Xi 399
- Preliminary field screening of maize landrace germplasm from northeastern Mexico under high temperatures.** Sergio Castro-Nava, Víctor H Ramos-Ortiz, Cesar A Reyes-Méndez, Florencio Briones-Encinia, José A López-Santillán 409