

CONTENTS

- M. Kochiieru, V. Feiza, D. Feizienė, J. Volungevičius, I. Deveikytė, V. Seibutis, S. Pranaitienė.** The effect of environmental factors and root system on CO₂ efflux in different types of soil and land uses 3
- I. Liaudanskienė, T. Žukaitis, A. Velykis, A. Satkus, I. Parašotas.** The impact of tillage practices on the distribution of humified organic carbon in a clay loam 11
- K. Bunevičienė, D. Drapanauskaitė, R. Mažeika, V. Tilvikienė.** Biofuel ash granules as a source of soil and plant nutrients 19
- R. Skuodienė, R. Repšienė, D. Karčauskienė, V. Matyžiūtė.** The effect of liming and organic fertilisation on the incidence of weeds in the crops of the rotation 27
- S. Rancāne, D. E. Ruņģis, D. Kreišmane, I. Vēzis, A. Rebāne, A. Jansons.** Assessment of *Lolium perenne* tetraploid clones produced from a diverse diploid breeding population 35
- V. Sterna, M. Bleidere, M. Sabovics, A. Auzins, I. Leimane, A. Krievina.** Improving nutritional value of products with flour of the hullless barley cultivar ‘Kornelija’ as an ingredient 43
- J. M. Golijan, D. D. Milinčić, R. B. Petronijević, M. B. Pešić, S. P. Stanojević, M. B. Barać, S. Lekić, A. Ž. Kostić.** Comparison of sugars, lipids and phenolics content in the grains of organically and conventionally grown soybean in Serbia 51
- A. Kikas, P. Laurson, A.-V. Libek.** Evaluation of the biological-economic and biochemical traits of promising *Ribes nigrum* hybrids in Estonia 57
- A. Butkevičiūtė, M. Liaudanskas, D. Kviklys, D. Gelvonauskienė, V. Janulis.** Qualitative and quantitative composition of triterpenic compounds in the fruit of apple old cultivars grown in Lithuania 63
- M. Kajkut Zeljković, B. Bosančić, G. Đurić, H. Flachowsky, L. Garkava-Gustavsson.** Genetic diversity of pear germplasm in Bosnia and Herzegovina, as revealed by SSR markers 71
- R. O. Mendoza-Tafolla, R. E. Ontiveros-Capurata, P. Juarez-Lopez, I. Alia-Tejacal, V. Lopez-Martinez, O. Ruiz-Alvarez.** Nitrogen and chlorophyll status in romaine lettuce using spectral indices from RGB digital images 79
- L.-X. Wang, I.-L. Choi, H.-M. Kang.** Surface sterilisation using chemical or physical methods influence microbial growth and quality of green asparagus 87