

## CONTENTS

### **Beata Zimowska, Ewa Dorota Król**

- Effect of selected preparations on growth and development *Boeremia strasseri*, the causal agent of black stem and rhizomes rot of peppermint (*Mentha piperita*) ..... 3

### **Jasmina Lj. Čilerdžić, Jelena B. Vukojević, Anita S. Klaus, Žarko S. Ivanović, Jovana D. Blagojević, Mirjana M. Stajić**

- Wheat straw – a promising substrate for *Ganoderma lucidum* cultivation ..... 13

### **Bugrahan Emsen, Muhammet Dogan**

- Evaluation of antioxidant activity of *in vitro* propagated medicinal *Ceratophyllum demersum* L. extracts ..... 23

### **Vahid Tavallali**

- Vacuum infiltration of 24-epibrassinolide delays chlorophyll degradation and maintains quality of lime during cold storage ..... 35

### **Małgorzata Podwyszyńska, Mirosława Cieślińska**

- Rooting shoots of apple varieties and their tetraploids obtained by the *in vitro* technique ..... 49

### **Andrzej Borowy, Ewelina Chrzanowska, Magdalena Kapłan**

- Comparison of three sour cherry cultivars grown in Central-Eastern Poland ..... 63

### **Justyna Lema-Rumińska, Natalia Miler, Krzysztof Gęsiński**

- Identification of new polish lines of *Chenopodium quinoa* (Willd.) by spectral analysis of pigments and a confirmation of genetic stability with SCoT and RAPD markers ..... 75

### **Katarzyna Sułkowska-Ziaja, Bożena Muszyńska, Alicja Gawalska, Kinga Sałaciak**

- Laetiporus sulphureus* – chemical composition and medicinal value ..... 87

### **Alina Kałużewicz, Renata Bączek-Kwinta, Włodzimierz Krzesiński, Tomasz Spizewski, Anna Zaworska**

- Effect of biostimulants on chlorophyll fluorescence parameters of broccoli (*Brassica oleracea* var. *Italica*) under drought stress and rewatering ..... 97

### **Ireneusz Sosna**

- Evaluation of several Asian pear cultivars in the climatic conditions of Lower Silesia ..... 107

### **Barbara Marcinek, Katarzyna Karczmarz, Mariusz Szmagara, Wojciech Durlak, Elżbieta Pogroszewska**

- Influence of a prolong application of mineral oils on bulb yield, quality of cut flowers and spread of viruses in tulip cultivation ..... 115

### **Priyanka Pal, Kuldeep Yadav, Krishan Kumar, Narender Singh**

- Multifaceted potential of K and GA<sub>3</sub> on growth, production and quality of F<sub>1</sub> hybrid *Cucumis sativus* L. (cv. KUK-9) ..... 127

**Dariusz Kulus, Magdalena Serocka, Anna Mięka**

Effect of various preculture and osmotic dehydration conditions on cryopreservation efficiency and morphogenetic response of chrysanthemum shoot tips ..... 139

**Hatice Bilir Ekbic, Nihan Gokdemir, Halil Erdem**

Effects of boron on yield, quality and leaf nutrients of Isabella (*Vitis labrusca* L.) grape cultivar ..... 149

**Monika Fratrková, Miroslav Bauer, Martin Jopčík, Jana Libantová**

Simple verification of *in vitro* – grown clones of the genus *Drosera* L. using its molecular markers ..... 159

**Ceknas Erdinc**

Changes in ion (K, Ca and Na) regulation, antioxidant enzyme activity and photosynthetic pigment content in melon genotypes subjected to salt stress – a mixture modeling analysis ..... 165