

## CONTENTS

### SECTION 1. AGRONOMY

Transfer of agricultural innovation in the conditions of the donetsk region  
**Vinyukov O. O., Udovychenko S. M., Bondareva O. B.**..... 5

Adaptive potential of agricultural crops under increasing hydrothermal deficit  
**Harmata I. M., Liashenko M. R., Doktor N. M.** ..... 9

Varietal resources of corn (*Zea mays* L.) in Ukraine and the dynamics  
of their replenishment  
**Mykhailyk S. M., Smulska I. V., Tahantsova M. M.** ..... 13

Analysis of Potential EU Bans on Pesticide Active Substances  
in Ukrainian Agriculture  
**Rybityskyi M. I., Novytska N. V.**..... 17

Main Nutrient Profile of Common Beans (*Phaseolus vulgaris*)  
**Storozhyk L. I., Zavhorodnia S. V., Balyan I. V.**..... 22

Formation of spike length and number of spikelets in spring barley varieties  
**Kholod S. M.** ..... 27

### SECTION 2. PLANT PROTECTION AND QUARANTINE

Brown root (*Monilinia fructigena* (Pers.) Honey) as one of the main diseases  
of the apple tree collection of the Dendrological park “Olexandria”  
of the NAS of Ukraine  
**Boiko N. S., Doiko N. M., Broun I. V.**..... 31

### SECTION 3. GARDENING AND VITICULTURE

The method for intensifying callusogenesis of grapevine grafts  
**Zelenianska N. M., Mavrov V. G.** ..... 36

### SECTION 4. TECHNOLOGY OF PRODUCTION AND PROCESSING OF LIVESTOCK PRODUCTS

Duration and efficiency of economic use of cows of different breeds  
in breeding farms  
**Kuchkova T. P., Tereshchenko S. V., Lytiuha I. O.** ..... 41

### SECTION 5. FORESTRY

Honey-bearing potential in the forests of Polissya, Zhytomyr region,  
under different forest-growing conditions  
**Bezditko L. V.** ..... 46

<b>SECTION 7. AQUATIC BIORESOURCES AND AQUACULTURE</b>	
Innovative Approaches to the Reproduction of Aquatic Organisms in Industrial Aquaculture and Mariculture	
<b>Oleshko V. P., Trofymchuk A. M., Heiko L. M.</b> .....	<b>50</b>
The problem of fish product quality in the context of parasitic diseases: challenges for food security of Ukraine	
<b>Solopova Kh. Ya., Bernakevych O. M.</b> .....	<b>55</b>
<b>SECTION 8. AGRICULTURAL ENGINEERING</b>	
Features of excavator bucket tooth wear	
<b>Borak K. V., Uminskyi O. V., Petsenko A. V.</b> .....	<b>58</b>
The mechanism of abrasive wear of working parts of soil cultivation machines	
<b>Borak K. V., Fedorchuk A. O., Shevchuk O. A.</b> .....	<b>62</b>
<b>SECTION 9. VETERINARY MEDICINE</b>	
Morphological criteria for assessing the heart of cattle ( <i>Bos taurus taurus L.</i> , 1758)	
<b>Goralskyi L. P., Sokulskiy I. M., Rahulia M. R.</b> .....	<b>66</b>
FIP diagnosis and treatment with oral GS-441524 and molnupiravir	
<b>Murashko T. V., Farionik T. V.</b> .....	<b>70</b>
Sensitivity of rabbit's opportunistic <i>Candida non-albicans</i> to antifungals in the aspect of Public Health	
<b>Pikhtirova A. V., Shkromada O. I., Varenyk L. V.</b> .....	<b>74</b>
Animal Welfare as a Component of Ensuring Food Security	
<b>Ulko L. G., Nikitina D. Ye.</b> .....	<b>78</b>
Postpartum stress in Holstein cows	
<b>Chekan O. M., Shkromada O. S.</b> .....	<b>82</b>
Foodborne Pathogens in Ukrainian Poultry: AMR and WGS Evidence	
<b>Shchur N. V., Pishchanskyi O. V., Nedosekov V. V.</b> .....	<b>85</b>
Biological security and prevention of the development of epizootics in Ukraine in the context of the Russian-Ukrainian war	
<b>Yanenko U. M., Lytvynenko O. P., Sorokina N. H.</b> .....	<b>90</b>