

# Contents

## Part 1. Veterinary medicine

Vygovska L. M.

DETERMINATION OF ANTIBIOTIC SUSCEPTIBILITY OF *LISTERIA* SPP. .... 5

Ponomarenko M. G., Kornienko V. I., Ponomarenko O. V.,  
Duchenko Ye. A., Ladohubets Ye. V., Harkusha I. V.

DEPENDENCE OF GENERAL ACTION AND ACUTE TOXICITY  
ON CHEMICAL STRUCTURE IN A ROW OF NEW DERIVATIVES  
OF 3-METHYL-7-SUBSTITUTED-8-N-ETHYL PIPERAZIN XANTHINE ..... 10

Bobrytska O. M., Karpovskyi V. I., Yuhai K. D., Vodopianova L. A.

EXPERIMENTAL JUSTIFICATION FOR THE USE OF BIORESONANCE  
METHOD OF ASSESSING THYROID FUNCTION IN DOGS ..... 14

## Part 2. Biotechnology and genetics

Kovalenko L. V., Solodianskin O. S., Stegnyy B. T., Gerilovych A. P., Muzyka D. V.,  
Stegnyy M. Yu., Obukhovska O. V., Shutchenko P. O., Lillehoj H. S.

EFFECT OF PHYTONUTRIENT ‘VITASTIM’ ON CHICKEN MUCOSAL  
IMMUNITY AGAINST LOW PATHOGENIC AVIAN INFLUENZA VIRUS H4N6 ..... 17

Antonenko P. P., Kovaleva I. V., Pushkar T. D., Timchenko O. V.

INFLUENCE OF PHYTOADDITIVES AND SODIUM SELENITE  
ON INDEX OF NATURAL RESISTANCE OF LAYING HENS ..... 25

Fedota O. M., Puzik N. G., Ruban S. Yu., Kolisnyk A. I.

EFFECT OF COW GENOTYPE BY SNPS *L127V/GH*, *F279Y*, *A257G/GHR* AND  
BIRTH DATE ON CALF GROWTH PERFORMANCE OF ABERDEEN-ANGUS ..... 29

## Part 3. Biosafety

Ushkalov V. O., Novgorodova O. Yu.

DEVELOPMENT DIRECTIONS OF LABORATORY INFRASTRUCTURE  
SUPPLY IN AGRICULTURAL PRODUCTION ..... 37

## Part 4. Brief communications

Yilmaz H., Turan N., Yilmaz A., Richt J. A.

LUMPY SKIN DISEASE: CURRENT EPIDEMIOLOGICAL SITUATION  
AND PREVENTION IN TURKEY AND NEIGHBORING COUNTRIES ..... 42

Turan N., Ozsemir C., Yilmaz A., Cizmecigil U. Y., Aydin O., Ozsemir K., Ozsoy S., Iqbal M., Tali H. E., Tekelioglu B. K., Kutukcu A., Richt J. A., Yilmaz H.  
**FREQUENCY AND GENOTYPES OF AVIAN INFLUENZA VIRUS (AIV) AND NEWCASTLE DISEASE VIRUS (NDV) IN MIGRATORY PASSERIFORM AND NONPASSERIFORM BIRDS, AND DUCKS IN ISTANBUL, TURKEY ..... 42**

Sidamonidze K., Ramishvili M., Malania L., Zhgenti E., Donduashvili M., Nikolaishvili M., Vepkhvadze N., Kokhreidze M., Avaliani L., Imnadze P.  
**MOLECULAR TECHNIQUES FOR DIAGNOSIS AND CONTROL OF HUMAN AND ANIMAL *BRUCELLA* ISOLATES FROM GEORGIA ..... 43**

Sahin M., Celebi O., Coskun M. R., Saglam A. G., Celik E., Otlu S., Akça D., Dogan A. N. C., Buyuk F.  
**A MULTIFACETED BATTLE AGAINST ANTHRAX IN EASTERN PART OF TURKEY IN WHERE ANTHRAX IS ENDEMIC ..... 44**

Schelkle B., Choi Y., Baillie L. W., Richter W., Buyuk F., Celik E., Wendling M., Sahin M., Gallagher T.  
***CAENORHABDITIS ELEGANS* PREDATION ON *BACILLUS ANTHRACIS*: DECONTAMINATION OF SPORE CONTAMINATED SOIL WITH GERMINANTS AND NEMATODES ..... 44**