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**СОДЕРЖАНИЕ**

**Материалы**  
**Международной научно-практической**  
**интернет-конференции**  
**«Научный поиск – животноводству России»**

<i>Информация о втором этапе конференции</i>	4
<i>Современные аспекты диагностики, лечения и профилактики при паразитарных и инфекционных заболеваниях животных</i>	
Власенко В.С., Морозова О.В., Дудолодова Т.С. Взаимосвязь уровня циркулирующих иммунных комплексов и функционального состояния лейкоцитов при лейкозе крупного рогатого скота	5
Насибуллин И.Р., Викторов Д.А., Васильев Д.А., Нафеев А.А., Швиденко И.Г. Выделение фагов бактерий <i>Aeromonas hydrophila</i> и изучение и биологические свойств.....	8
Рябинин С.В. Тест-система для диагностики реовирусной инфекции кур.....	11
Туркова М.В., Бьядовская О.П., Прунтова О.В., Перевозчикова Н.А., Жбанова Т.В. Ретроспективная серодиагностика орнитобактериоза птиц	14
Зубаирова М.М., Атаев А.М., Карсаков Н.Т. Динамика сезонной активности зоофильных мух в равнинном Дагестане.....	16
Беспалова Н.С., Возгорькова Е.О. Опыт применения фитопрепаратов в комплексном лечении собак при демодекозе.....	19
Зимарева С.С., Тайгузин Р.Ш., Пантелеев А.П. Распространение постодипломоза на территории Оренбургской области.....	22
Дроздова Е.А., Щербакова Н.В. Резистентность пробиотических штаммов микроорганизмов к антибиотикам.....	25
Бердова А.К., Герунов В.И. Действие инсектицида Аверсект-2 на эндокринные железы крыс.....	27
Сафоновская Е.В., Дегтяренко А.В., Беляев В.А., Дорохина А.А. Токсичность дезинфектанта "Биопаг-Д" для млекопитающих.....	30
Тарасова Е.Ю., Трemasов М.Я. Средства лечения при Т-2-микотоксикозе.....	32
<i>Морфофункциональные системы животных в норме и при патологии</i>	
Кочуева Н.А., Воронина Т.Ю. Динамика активности ферментов белкового обмена у телят костромской породы.....	35
Гречко В.В., Хонин Г.А. Сравнительная гистологическая характеристика мышц пальцев кур.....	38
Дерхо М.А., Серeda Т.И., Горелик Л.Ш. Индикаторы оценки и прогнозирования массы пищевых яиц	40
Кошкина Н.А. Морфологические особенности лимфатических узлов норок.....	43
Кудачева Н.А. Структура эпидермиса при папилломавирусной инфекции крупного рогатого скота.....	47
Орoбец В.А., Севoстьянова О.И. Влияние препарата "Экстраселен-Е+Vmin" на продуктивность кур-несушек.....	49

Решетов В.Б., Пузач Л.В. Частотные диаграммы биохимических показателей крови для оценки состояния животных.....	52
Семенов Э.И., Матросова Л.Е., Тарасова Е.Ю., Валиев А.Р., Егоров В.И. Антитоксическая эффективность иммуномодулятора “Тималин”.....	55
Топурия Г.М., Бибикова Д.Р. Коррекция иммунного статуса поросят-отъемышей.....	58
Тремасова А.М. Ветеринарно-санитарная оценка качества мяса телят после применения шунгита	62
Ханхаськов С.П., Косинская В.О. Лечение некроза, вызванного препаратом Винкристин.....	64
Шахова В.Н., Беляев В.А., Сафоновская Е.В., Михайленко В.В. Изменения биохимических показателей крови при экспериментальной офтальмопатологии.....	66
Эшбуриев Б.М., Эшбуриев С.Б. Профилактика микроэлементозов у стельных коров в фермерских хозяйствах Узбекистана.....	68
<i>Современная ветеринарная фармакология: анализ и перспективы</i>	
Ивонин А.Г., Пименов Е.В., Копылов С.Н., Оборин В.А. Оценка возможности включения антибиотиков в эритроциты животных.....	71
Киреев И.В., Оробец В.А., Беляев В.А., Скрипкин В.С., Чернова Т.С. Влияние мебисела на динамику диеновых конъюгатов и малонового диальдегида в крови телят.....	75
Лыско С.Б., Задорожная М.В., Красиков А.П. Оценка острой токсичности препарата "Бетулин в углеродной микросфере".....	77
Оробец В.А., Момотова Е.А. Влияние нового железосодержащего препарата на состав крови поросят.....	80

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### ***За пределами конференции***

*...а может и не шутка*

Зюзин П.В., Андреева А. Г. Инкапсулированные космоэмбрионы пояса астероидов.....	83
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<b><i>Новая продукция издательства “Энтропос”</i></b> .....	86
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**Contents**

**Materials  
of the International Theoretical and Practical  
Internet Conference**

**«SCIENTIFIC RESEARCH  
FOR RUSSIAN ANIMAL HUSBANDRY»**

<i>Conference resolution</i> .....	4
Vlasenko V.S., Morozova O.V., Dudoladova T.S. Relationship between the levels of circulating immune complexes and functional state of leukocytes in cattle by leukemia.....	5
Nasibullin I.R., Viktorov D.A., Vasilyev D.A., Nafeev A.A., Shvidenko I.G. Isolation of bacteriophages active against aeromonas hydrophila and their biological properties.....	8
Ryabinin S.V. Test system for reovirus infection diagnostics.....	11
Turkova M.V., Byadovskaya O.P., Pruntova O.V., Perevozchikova N.A., Zhanova T.V. Retrospective serodiagnosis of avian ornithobacteriosis.....	14
Zubairova M.M., Ataev A.M., Karsakov N.T., Dynamics of zoophilous fly seasonal activity in the flat Daghestan.....	16
Bespalova N.S., Vozgorkova E.O. Phytopreparations for complex treatment of dogs by demodectic mange	19
Zimareva S.S., Tayguzin R.Sh., Pantelev A.P. Spread of postodiplostomos on Orenburg region's territory	22
Drozdova E.A., Shcherbakova N.V. Antibiotic resistance of probiotic strains.....	25
Berdova A.K., Gerunov V.I. Effect of the insecticide Aversect-2 on the endocrine glands in rats.....	27
Safonovskaya E.V., Degtyarenko A.V., Belayev V.A., Dorokhina A.A. Toxicity of the Biopag-D disinfectant for mammal.....	30
Tarasova E.Yu., Tremasov M.Ya. Medicamentous therapy by T-2 mycotoxicosis.....	32
Kochueva N.A., Voronina T.Yu. Dynamics of the protein metabolism enzymes activity in Kostroma calves....	35
Grechko V.V., Honin G.A. Comparative histological characteristics of dactyl muscles in hens.....	38
Derkho M.A., Sereda T.I., Gorelik L.Sh. The rating indicators and prognosis for weight of eggs.....	40
Koshkina N.A. Morphological characteristics of the lymph nodes in minks.....	43
Kudacheva N.A. Epidermis structure by bovine papillomavirus infection.....	47
Orobets V.A., Sevostyanova O.I. Influence of Extraselen-E+Vmin the drug on laying hen productivity	49
Reshetov V.B., Puzach L.V. Frequency diagram of blood biochemical measurements for evaluation of animals condition.....	52
Semenov E.I., Matrosova L.E., Tarasova E.Yu., Valiev A.R., Egorov V.I. The antitoxic action of the immunomodulator Thymalinum.....	55

Topuriya G.M., Bibikova D.R. Correction of the immune status in weanling piglets.....	58
Tremasova A.M. Veterinary and sanitary assessment of the meat quality from calves after use of schungite.....	62
Khankhasykov S.P., Kosinskaya V.O. Vincristine-challenged necrosis healing.....	64
Shakhova V.N., Belayev V.A., Safonovskaya E.V., Mikchailenko V.V. Changes in biochemical blood indicators by experimental ophthalmopathology.....	66
Eshburiev B.M., Eshburiev S.B. The prophylaxis of microelementoses in incalvers from farms of Uzbekistan.....	68
Ivonin A.G., Pimenov E.V., Oborin V.A. Evaluation of the incorporation of antibiotics into erythrocytes of animals.....	71
Kireev I.V., Orobets V.A., Belayev V.A., Skripkin V.S., Chernova T.S. Influence of mebisel on dynamics of diene conjugate and malonic dialdehyde in blood of calves.....	75
Lysko S.B., Zadorozhnaya M.V., Krasikov A.P. Assessment of acute toxicity of the medicine "Betulin in carbon microsphere".....	77
Orobets V.A., Momotova E.A. Influence of a new iron preparation on hematological parameters in piglets	80
<i>Science-fiction story</i>	
Zuzin P.V., Andreeva A.G. Encapsulated cosmic embryos from the asteroid belt.....	83
<i>New Entropos's production.....</i>	86

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#### RELATIONSHIP BETWEEN THE LEVELS OF CIRCULATING IMMUNE COMPLEXES AND FUNCTIONAL STATE OF LEUKOCYTES IN CATTLE BY LEUKEMIA

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Summary. In this paper we present data on the relationship between the level of circulating immune complexes (CIC) and the functional state of leukocytes in leukemia in cattle. Ref. 7.

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## AEROMONAS HYDROPHILA

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## ISOLATION OF BACTERIOPHAGES ACTIVE AGAINST AEROMONAS HYDROPHILA AND THEIR BIOLOGICAL PROPERTIES

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**Keywords:** bacteriophages, *Aeromonas hydrophila*, lytic activity, diagnosis, specificity.

Summary. This article presents the results of the bacteriophage isolation and study of basic biological properties of bacteriophage active against bacteria the species *Aeromonas hydrophila*. Tabl. 1. Ref. 11.

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### TEST SYSTEM FOR REOVIRUS INFECTION DIAGNOSTICS

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**Keywords:** *diagnosticum ELISA, antibodies, chickens, reovirus, infection, epizootological monitoring.*

Summary. Data on the ELISA diagnosticum for reovirus infection control in chickens from poultry-farms on Ukraine territory are given. Ref. 6. Ill. 2.

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### RETROSPECTIVE SERODIAGNOSIS OF AVIAN ORNITHOBACTERIOSIS

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**Keywords:** avian ornithobacteriosis, *Ornithobacterium rhinotracheale*, enzyme-linked immunosorbent assay, serodiagnosis.

Summary. Results of serological tests for avian ornithobacteriosis on poultry farms of the Russian Federation in 2009-2011 carried out using enzyme-linked immunosorbent assay are given in the paper. Tabl. 2. Ref. 6.

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UDC 619.576.895.772.631.95

### DYNAMICS OF ZOOPHILOUS FLY SEASONAL ACTIVITY IN THE FLAT DAGHESTAN

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**Keyword:** fly, dynamics, zoophilous, calves, Dagestan

Summary. The article presents the materials of zoophilous fly seasonal activity in the flat Daghestan. Tabl. 2. Ref. 3.

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**PHYTOPREPARATIONS FOR COMPLEX TREATMENT OF DOGS BY DEMODECTIC MANGE****BESPALOVA, Nadezhda S.**, professor, the Voronezh State Agricultural University, Doctor of Veterinary Science**VOZGORKOVA, Elena O.**, postgraduate, the Voronezh State Agricultural UniversityAddress: 1, Michurin Street, Voronezh, Russia, 394087. T.: (+7)920-423-06-92. E-mail: [lana14022010@mail.ru](mailto:lana14022010@mail.ru)**Keywords:** dog, acariasis, demodectic mange, treatment, phytotherapy.

Summary. The paper presents the authors' data on use of phytotherapeutic drugs as adjunctive therapy of dogs by demodectic mange. Ref. 6.

BIBLIOGRAPHIC REFERENCES. 1. Bepalova N.S., Shelyakin I.D., Stepanov V.A. Prakticheskoe rukovodstvo po prizhiznennoy diagnostike parazitarnykh bolezney domashnikh zhivotnykh: uchebnoe posobie. Voronezh: Voronezh SAU, 2010. 232 p. 2. Vasilevich F.I., Yarovaya N.V., Engashev S.V. Kompleksnoe lechenie sobak pri demodekoze // Veterinariya. 2010. Iss. 5. P.38-41. 3. Karpenko L.Yu., Tikhinin V.V. Biokhimicheskie i immunologicheskie pokazateli krovi sobak pri demodekoze // Aktual'nye problemy veterinarnoy meditsiny melkikh domashnikh zhivotnykh na Severnom Kavkaze. Persianovsky, 1998. Iss. 1. P. 20-21. 4. Biokhimicheskoe issledovanie pecheni sobak pri demodekoze / A.A. Lisitsina [et al.] // Veterinariya. 1997. Iss. 4. P. 44-45. 5. Nozdrin G.A., Reutova E.A., Naumkin I.V. Primenenie novogo fitopreparata pri dermatitakh razlichnoy etiologii u sobak // Novosibirsk veterinary portal. 2004. [http://www.vetport.ru/modulepages\\_print\\_51.html](http://www.vetport.ru/modulepages_print_51.html) (date of access 03.16.2013). 6. Skosyrskikh L.N., Stolbova O.A. Morfologicheskie pokazateli krovi sobak pri demodekoze // Izvestiya Orenburgskogo gosudarstvennogo agrarnogo universiteta. Vol. 4. Iss. 32-1. P.136-138.

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## SPREAD OF POSTODIPILOSTOMOS ON ORENBURG REGION'S TERRITORY

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**Keywords:** *postodiplostomosis, spreading, contamination, Orenburg region.*

Summary. In the article contamination of fish by metacercaria of Postodiplostomum on the territory of three districts of Orenburg region is described. Tabl. 1. Ref. 7.

BIBLIOGRAPHIC REFERENCES. 1. Gryzunov A.V. Bioraznoobrazie i bioresursy ryb Orenburgskoy oblasti, ikh parazitarnye zabollevaniya i tendentsii // Izvestiya OGAU. 2010. Iss. 2 (26). P. 183-185. 2. Kilyakova Yu.V. Otsenka rybnikh resursov vodoemov Orenburgskoy oblasti // Rybnye resursy Kamsko-Ural'skogo regiona i ikh ratsional'noe ispol'zovanie: Materials of a conference. Perm, 2008. P. 51-53. 3. Sapozhnikov G.I. Postodiplostomoz presnovodnykh ryb // Veterinariya. 2001. Iss. 8. P. 27-32. 4. Biologicheskoe obosnovanie k prognozu obshchikh dopustimyykh ulovov ryby v vodoemakh Urala v 2005 g. // Report of the Gosrybtsentr. Ekaterinburg, 2004. 5. Dinamika i vozmozhnye prichiny rasseleniya malogo baklana (Phalacrocorax pygmaeus pelecyaniformes) na severe nizhnego Povolzh'ya i sopredel'nykh territoriyakh / E.V. Zav'yalov [et al.] // Povolzhskiy ekologicheskiy zhurnal. 2009. Iss. 1. P. 69-73. 6. Korshikov L.V. Zalet malogo baklana v Orenburzh'e // Materialy k rasprostraneniyu ptits na Urale, v Priural'e i Zapadnoy Sibiri. Ekaterinburg: Ekaterinburg, 2000. P. 118. 7. Grinchenko A.B. Razmeshchenie, chislennost' i ekologiya malogo baklana (Phalacrocorax pygmaeus) na yuge Ukrainy // Branta: collected papers of Ornithological Station. Melitopol; Simferopol: Sonat, 2004. Iss. 7. P. 167-171.

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## ANTIBIOTIC RESISTANCE OF PROBIOTIC STRAINS

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**Keywords:** *probiotics, antibiotics, Bacillus, antibiotic resistance, antibiotic susceptibility*

Summary. In this article the antibiotic resistance of the probiotic strains and opportunistic microorganisms of the species *Salmonella enteritidis* is analyzed. Tabl. 1. Ref. 5.

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**EFFECT OF THE INSECTICIDE AVERSECT-2  
 ON THE ENDOCRINE GLANDS IN RATS**

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**Keywords:** avermectins, adrenal gland, pancreas, thyroid gland, rats.

Summary. Effect of the insecticide Aversect-2 on the endocrine glands in rats is described. Ref. 7.

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### TOXICITY OF THE BIOPAG-D DISINFECTANT FOR MAMMAL

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**Keywords:** *disinfection, disinfectant, polyhexamethyleneguanidine hydrochloride, toxicity.*

Summary. In article the toxicological assessment of the modern disinfectant Biopag-D contained polyhexamethyleneguanidine hydrochloride is carried out. Ref. 1. III. 1.

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### MEDICAMENTOUS THERAPY BY T-2 MYCOTOXICOSIS

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**Keywords:** *antioxidant, enterosorbent, hepatoprotector, treatment, T-2 toxin*

Summary. In this paper the effectiveness of mexidol, essenciale H and charcoal BAU-A for animals by acute T-2 mycotoxicosis is experimentally proved. Ref. 2.

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**DYNAMICS OF THE PROTEIN METABOLISM ENZYMES ACTIVITY IN KOSTROMA CALVES****KOCHUEVA, Natalya A.**, professor, the Kostroma State Agricultural Academy, Doctor of Biology**VORONINA, Tatyana Yu.**, postgraduate, the Kostroma State Agricultural Academy

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**Keywords:** blood enzymes, cattle, productivity.

Summary. The article presents the results of the dynamics of enzyme protein metabolism activity (aspartate aminotransferase, alanine aminotransferase, creatine kinase) in blood of Kostroma calves. Tabl. 1. Ref. 4.

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**COMPARATIVE HISTOLOGICAL CHARACTERISTICS OF DACTYL MUSCLES IN HENS****GRECHKO, Viktor V.**, post-graduate student, the Omsk State Agricultural University**HONIN, Gennady A.**, director of the Institute of Veterinary Medicine and Biotechnologies of the Omsk State Agricultural University, Professor, Doctor of Veterinary Science

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**Keywords:** muscles, anatomy, histology, poultry.

Summary. This paper describes some features about comparative histological characteristics of dactyl muscles in chickens of the cross "Rodonit" in postnatal ontogenesis. Ref. 3. Ill. 2.

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Physiological and Molecular Basis of Thyroid Hormone Action // *Physiological Reviews*. 2001. Vol. 81. 3. 1097-1142.

**THE RATING INDICATORS AND PROGNOSIS FOR WEIGHT OF EGGS**

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**Keywords:** *egg weight, laying hen, blood indices*

Summary. Relationship between the blood indicators and egg weight is described in this article. Tabl. 1. Ref. 11.

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**MORPHOLOGICAL CHARACTERISTICS OF THE LYMPH NODES IN MINKS**

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**Keywords:** *asymmetry, lymph node, mink, females, males.*

Summary. Comparative data on morphometric parameters of lymph nodes in minks are given. Tabl. 1. Ref. 6.

**BIBLIOGRAPHIC REFERENCES.** 1. Abramov V.V., Abramova T.Ya. Asimmetriya nervnoy, endokrinnoy i immunnnoy sistem // Novosibirsk: Nauka. Sibir. izdat. Firma RAN, 1996. 97 p. 2. Belevich V.P. Puti ottoka limfy iz organov goleni i tarzal'nogo sustava krupnogo rogatogo skota i ikh topografiya: avtoref. dis. kand. vet. nauk. M., 1972. 25 p. 3. Bianki V.L. Asimmetriya mozga zhivotnykh: Monografiya. L. 1978. 78 p. 4. Dubrov A.P. Simmetriya funktsional'nykh protsessov: Monografiya. M.: Znanie, 1976. 65 p. 5. Matalasov V.P. Sravnitel'naya anatomiya i vozrastnye izmeneniya limfaticeskoy sistemy norki i pestsa v postnatal'nom ontogeneze: Author's Abstract of Doctoral Dissertation. Omsk, 1997. 27 p. 6. Biosimmetriya morfologii limfaticeskikh uzlov u samtsov i samok khor'kov / N.A. Suntsova [et al.] // Sovremennye problemy i metody ekologicheskoy fiziologii i patologii mlekopitayushchikh, vvedennykh v zookul'turu: Materials of Fourth International Symposium. Petrozavodsk, 2009. P. 232-236.

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**MORPHOLOGICAL CHARACTERISTICS OF THE LYMPH NODES IN MINKS**

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**EPIDERMIS STRUCTURE BY BOVINE PAPILLOMAVIRUS INFECTION****KUDACHEVA, Natalya A.**, docent, the Samara State Agricultural Academy, Candidate of Veterinary Science

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**Keywords:** *bovine papillomavirus infection, epithelial cells, koilocytosis, oncology, hyperplasia, hyperkeratosis.*

Summary. The article presents the results of the histological research of viral papillomas. The changes typical of papillomavirus infection in cattle are given. Ref. 4. Ill. 2.

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## INFLUENCE OF EXTRASELEN-E+VMIN THE DRUG ON LAYING HEN PRODUCTIVITY

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**Keywords:** *Extraselelen-E+Vmin, vitamins, productivity, egg production, egg weight, vitellus, white, laying hen.*

Summary. New data on the influence of a new combined multivitamin preparation on Moscow White hen productivity are reported. Tabl. 1. Ref. 9. Ill. 1.

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UDC 636.2.034:6121.015.3:612.12.087

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**Keywords:** *dairy cattle, blood, biochemical measurements, frequency diagram*

Summary. Using of frequency diagrams of blood biochemical measurements for evaluation of animals condition is considered in this article. Ref. 5. Ill. 10.

BIBLIOGRAPHIC REFERENCES. 1. Spravochnik po kontrolyu kormleniya i sodержaniya zhivotnykh / V.A. Alikhaev [et al.]. M., Kolos, 1982. 320 p. 2. Vladimirov V.L., Samokhin V.T. Sistema biokhicheskoy otsenki pitaniya i sostoyaniya zdorov'ya molochnykh korov: Workbook. Dubrovitsy, VIZH, 2006. 20 p. 3. Klinicheskaya laboratornaya diagnostika v veterinarii / I.P. Kondrakhin [et al.]. M.: Agropromizdat, 1985. 288 p. 4. Metodicheskie rekomendatsii po diagnostike, terapii i profilaktike narusheniy obmena veshchestv u produktivnykh zhivotnykh. Voronezh, VNIPTIF, 2005. 94 p. 5. Pak V.B. Metod biologicheskogo kontrolya pishchevogo statusa korov s udoem 6-8 tysyach kilogrammov moloka po metabolicheskim profilyam. Tekhnoproekt. Vologda-Molochnoe, 1993. 40 p.

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## FREQUENCY DIAGRAM OF BLOOD BIOCHEMICAL MEASUREMENTS FOR EVALUATION OF ANIMALS CONDITION

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E-mail: bifip@kaluga.ru

**Keywords:** *dairy cattle, blood, biochemical measurements, frequency diagram*

Summary. Using of frequency diagrams of blood biochemical measurements for evaluation of animals condition is considered in this article. Ref. 5. Ill. 10.

BIBLIOGRAPHIC REFERENCES. 1. Spravochnik po kontrolyu kormleniya i sodержaniya zhivotnykh / V.A. Alikhaev [et al.]. M., Kolos, 1982. 320 p. 2. Vladimirov V.L., Samokhin V.T. Sistema biokhicheskoy otsenki pitaniya i sostoyaniya zdorov'ya molochnykh korov: Workbook. Dubrovitsy, VIZH, 2006. 20 p. 3. Klinicheskaya laboratornaya diagnostika v veterinarii / I.P. Kondrakhin [et al.]. M.: Agropromizdat, 1985. 288 p. 4. Metodicheskie rekomendatsii po diagnostike, terapii i profilaktike narusheniy obmena veshchestv u produktivnykh zhivotnykh. Voronezh, VNIPTIF, 2005. 94 p. 5. Pak V.B. Metod biologicheskogo kontrolya pishchevogo statusa korov s udoem 6-8 tysyach kilogrammov moloka po metabolicheskim profilyam. Tekhnoproekt. Vologda-Molochnoe, 1993. 40 p.



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### THE ANTITOXIC ACTION OF THE IMMUNOMODULATOR THYMALINUM

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**Keywords:** *mycotoxins, T-2 toxin, intoxication, peptide immunomodulator, Thymalinum*

Summary. The results of peptide immunomodulator use for animals by immunosuppression with chronic T-2 mycotoxin intoxication are provided. Tabl. 2. Ref. 7.

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### CORRECTION OF THE IMMUNE STATUS IN WEANLING PIGLETS

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**Keywords:** weanling piglets, humic preparations, guvitan-S, resistance factors, immune status

Summary. Scientific research showed up the stimulating action of Guvitan-S the humic preparation on cellular and humoral immunity in weanling piglets. Tabl. 3. Ref. 8.

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UDC 619:632.95.02:574

### VETERINARY AND SANITARY ASSESSMENT OF THE MEAT QUALITY FROM CALVES AFTER USE OF SCHUNGITE

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**Keywords:** calves, schungite, veterinary and sanitary assessment, meat quality

Summary. The results of veterinary-sanitary assessment of meat from calves after using schungite as a feed additive are given. Ref. 3.

BIBLIOGRAPHIC REFERENCES. 1. Ivanov A.V., Tremasov M.Ya., Papunidi K.Kh. Mikotoksikozy zhivotnykh (etiologiya, diagnostika, lechenie, profilaktika). M.: Kolos, 2008. 177 p. 2. Kuznetsov A.F., Ruppel V.V., Varyukhin A.V. Enterosorbtsiya kak metod efferentnoy terapii v veterinarnoy meditsine // Veterinarnaya praktika. Iss. 1(7). 1998. P. 17-22. 3. Effektivnost enterosorbentov pri mikotoksikozakh zhivotnykh / A.M. Smirnov [et al.] // Sovremennye problemy veterinarnoy farmakologii i toksikologii: Mat. of the Second Congress of Vet. Pharmacologists and Toxicologists of Russia. June, 9-12. Kazan, 2009. P. 489-493.

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### VINCRIStINE-CHALLENGED NECROSIS HEALING

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**Keywords:** *transmissible sarcoma, Vincristine, necrosis, therapy*

Summary. Vincristine-challenged necrosis healing is described. Ref. 3. Ill. 7.

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UDC 619:616

### CHANGES IN BIOCHEMICAL BLOOD INDICATORS BY EXPERIMENTAL OPHTHALMOPATHOLOGY

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**Keywords:** *ophthalmopathology, diagnosis, keratitis, keratoconjunctivitis, serum, enzymatic activity.*

Summary. In this paper the changes in biochemical blood indicators of rabbits with experimental ophthalmopathology are analyzed. Tabl. 1. Ref. 3.

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**THE PROPHYLAXIS OF MICROELEMENTOSES IN INCALVERS FROM FARMS OF UZBEKISTAN**

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**Keywords:** endemic diseases, microelements, premix, copper, cobalt, manganese, zinc.

Summary. The effectiveness of microelemental premix with vitamins added for prophylaxis of microelementoses in incalvers is studied. Tabl.1. Ref. 3.

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**EVALUATION OF THE INCORPORATION OF ANTIBIOTICS INTO ERYTHROCYTES OF ANIMALS**

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**Keywords:** farm and domestic animals, drug transport, erythrocytes carriers, erythromycin, gentamicin, extracorporeal saturation

**Summary.** The paper presents the results of research on the efficiency of binding of erythromycin and gentamicin with the erythrocytes of cows, horses and dogs in vitro. Ref. 9. Ill. 3.

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619:615.038: 636.2

UDC 619:615.038: 636.2

**INFLUENCE OF MEBISEL ON DYNAMICS OF DIENE CONJUGATE AND MALONIC DIALDEHYDE IN BLOOD OF CALVES**

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**Keywords:** calves, lipid peroxidation, antioxidant system, malondialdehyde, diene conjugate.

**Summary.** The influence of the drug "Mebisel" on the concentration of lipid peroxidation products in blood of the calves is described. Tabl. 1. Ref. 3.

**BIBLIOGRAPHIC REFERENCES.** 1. Antonov A.V. Nekotorye pokazateli sistemy antioksidantnoy zashchity u sportivnykh loshadey pri treninge raznoy intensivnosti // Sel'skokhozyaystvennaya biologiya. 2010. Iss. 4. P. 59-65. 2. Burkov V.I., Kolesnichenko I.S., Mel'nichenko V.I. Primenenie antioksidanta emitsidina v veterinarii // Veterinariya. 2003. Iss. 10. P. 52-53. 3. Slavetskaya M.B., Glukharev V.A. Farmakologicheskaya korrektsiya stressov, immunodefitynykh sostoyaniy kak sposob povysheniya produktivnosti ptits // Veterinarnyy vrach. 2010. Iss. 2. P. 43-45. 4. Shatilov A.V., Bogdanova O.G., Korobov A.V. Rol' antioksidantov v organizme v norme i pri patologii // Veterinarnaya patologiya. 2006. Iss. 2(21). P. 207-211.

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UDC 619.636.5

**ASSESSMENT OF ACUTE TOXICITY OF THE MEDICINE "BETULIN IN CARBON MICROSPHERE"****LYSKO, Svetlana B.**, head of division, the Siberian Research Institute of Aviculture, Candidate of Veterinary Science**ZADOROZHNYAYA, Marina V.**, researcher, the Siberian Research Institute of Aviculture**KRASIKOV, Alexander P.**, principal officer, the Siberian Research Institute of Aviculture, Doctor of Veterinary Science, Professor

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**Keywords:** *Betulin in carbon microsphere, acute toxicity, mice, chickens, broilers, half-lethal dose, intoxication.*

Summary. The toxicity assessment of the drug "Betulin in the carbon microsphere" for mice and broilers is studied. Tabl. 4. Ref. 3.

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UDC 619:615.015.4

**INFLUENCE OF A NEW IRON PREPARATION ON HEMATOLOGICAL PARAMETERS IN PIGLETS****OROBETS, Vladimir A.**, head of the subdepartment, the Stavropol State Agricultural University, Doctor of Veterinary Science, Professor**MOMOTOVA, Ekaterina A.**, student, the Stavropol State Agricultural University

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**Keywords:** *anemia, iron preparations, pigs, hematological parameters*

Summary. The paper presents results on the effect of a new iron preparation with vitamins on hematological parameters and the iron level in piglets. Tabl. 1. Ref. 5.

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82-344

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### ENCAPSULATED COSMIC EMBRYOS FROM THE ASTEROID BELT

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**Keywords:** *asteroid belt, cosmic embryo, embryonic development, genetic test, spectral analysis*

Summary. Basic data on encapsulated extraterrestrial beings from the asteroid belt are presented in this article. Ref. 5. Illust. 3.

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