

CONTENTS

REVIEWS, CHALLENGES

<i>Volkova N.A., Vetokh A.N., Zinovieva N.A.</i> Genome editing: current state and prospects for use in poultry (review)	1015
<i>Selionova M.I., Trukhachev V.I., Aybazon A.-M.M. et al.</i> Genetic markers of goats (review)	1031
<i>Kovalchuk S.N.</i> Intramuscular fatty acid composition in sheep: phenotypic variability, heritability, and candidate genes (review)	1049
<i>Skachkova O.A., Brigida A.V.</i> Embryo survival to accelerate genetic progress in dairy herds (review)	1063
<i>Glazko V.I., Kosovsky G.Yu., Fedorova L.M. et al.</i> Cellular and extracellular levels of retrovirus—host interactions on the example of the bovine leukose virus. 2. Critical stages — multiplicity and versatility (review)	1079

GENOME STRUCTURE AND GENOME TECHNOLOGIES

<i>Vetokh A.N., Sergiev P.V., Rubtsova M.P. et al.</i> Creation of genome editing systems based on CRISPR-CAS9 for knockout in <i>FGF20</i> and <i>HR</i> genes of embryonic and generative cells from chicken and quails	1099
<i>Abdelmanova A.S., Fornara M.S., Bardukov N.V. et al.</i> Whole genome study of single nucleotide polymorphisms' associations with withers height in local and transboundary breeds in Russia	1111
<i>Stolpovsky Yu.A., Beketov S.V., Solodneva E.V. et al.</i> The population-genetic structure of native Tagil cattle by STR- and SNP-markers	1123
<i>Koshkina O.A., Deniskova T.E., Dotsev A.V. et al.</i> A study of maternal variability of Russian local sheep breeds based on analysis of cytochrome b gene polymorphism	1134

REPRODUCTIVE BIOTECHNOLOGIES

<i>Singina G.N., Chinarov R.Yu., Lukanina V.A. et al.</i> The effect of prolactin on the quality of heifer oocytes retrieved by transvaginal puncture of follicles	1148
--	------

FEED ADDITIVES

<i>Nekrasov R.V., Chabaev M.G., Tsis E.Yu. et al.</i> The effect of dihydroquercetin on the growth and use of feed by pigs (<i>Sus scrofa domestica</i> Erxleben, 1777) under moderate heat stress	1156
<i>Fomenko I.A., Degtyarev I.A., Ivanova L.A. et al.</i> A technology for obtaining a protein concentrate from yeast biomass of <i>Kluyveromyces marxianus</i> Van der Walt (1965)	1172

VETERINARY DIAGNOSTICS

<i>Sermyagin A.A., Lashneva I.A., Kositsin A.A. et al.</i> Differential somatic cell count in milk as criteria for assessing cows' udder health in relation with milk production and components	1183
<i>Shtumpf L.Yu., Kolesnik O.V., Stepanova L.V. et al.</i> Bioluminescent sport horse saliva test: prospects for use	1199