CONTENTS

K.I. Kuznetsov, N.N. Veselovskaya, V.Y.Maslov, S.A.Fedulova, M.S. Veselovsky. Electrical properties of retinal ganglionic cells of the rats with streptozotocine-induced diabetes	3
O.M. Semenykhina, N.A. Strutynska, A.Yu. Budko, G.L. Vavilova, V.F. Sagach. Effect of hydrogen sulfide donor NaHS on the functional state of the respiratory chain of rat heart mitochondria	9
M.R. Khara, S.I. Pavlovych, V.M. Mykhailyuk. Sex difference of functional and structural alterations in rat myocardium under hypothyroidism	18
M. Ya. Spivak, L.M. Lazarenko, T.M. Falalyeyeva, O.V. Virchenko, K.S. Neporada. Prophylactic influence of probiotic strains bifidobacterium animalis VKL and VKB on stress-induced lesions in the gastric mucosa of rats	23
P.I. Yanchuk, O.V. Bondzyk, E.M .Reshetnik, S.P. Veselsky. Effect of L-arginine on the oxygen balance of the liver and its bile secretion function	31
E.O. Asanov, E.D. Osmak, L.A. Kuzminskaya. Peculiarities of the response of the sympathoadrenal system to psychoemotional stress under hypoxic conditions in aged people with physiological and accelerated aging of respiratory system	39
V.A. Berezovskiy, T.M.Zamorska, R.V. Yanko. The effects of oxygen partial pressure changes on the osteometric markers of bone tissue in rats	47
L.V. Garmanchuk, A.N.Makarenko, N.N. Khranovskaya, T.V. Nikolayenko, V.V. Nikulina, K.D. Nepiyvoda, L.I. Ostapchenko, S.G. Morozov, N.S. Kositsyn. Mitokorrektin stimulates angiogenesis in vitro	52
M.M. Kondro, T.I. Galenova, M.U. Kyznecova, O.M. Savchyk. Expression changes in insulin receptor in subcellular fractions of muscular and adipose tissue as the factor of the tissue insulin resistance development in rats under conditions of the high-energy diet	59
O.P. Dolaychuk, R.S.Fedoruk, I.I. Kovalchuk. The impact of components conventional and genetically modified soybeans on parameters of the immune and reproductive systems female rats	65
Yu.A. Koryak. Influence of physical training UNDER conditions of 120-day simulated microgravity on contractile properties and musculo-tendinous stiffness of the human triceps surae muscle	71
I.E. Sergeieva. Pathogenetic conditioning of peptidases assignments in the treatment of patients with generalized periodontitis	85
S.R.Pidruchna. Changes in the content of reduced glutathione in severe injuries and combined trauma	92
N.E. Lapovets. Changes in the levels of interleukins and humoral immunity before and after koch's test in patients with abdominal tuberculosis	96
A.S. Zhukovska, A.M. Shysh, M.O. Kuzmenko. Correction of cardiodynamics in experimental diabetes by ω-3 polyunsaturated fatty acids	100
REVIEWS	
N.S. Petrenko, O.A. Krishtal. P2X3-receptor desensitization as an alternative mechanism of analgesia	104
O.A. Rybachuk, T.A. Pivneva. Neural stem cells – strategies of regeneration of central nervous system	111