## CONTENTS

L.N.Shapoval, O.V. Dmitrenko, G.L. Vavilova, L.S.Pobegaylo L.G.Stepanenko, N.V. Radchenko, T.L. Davidovskaya, V.F.Sagach. Impact of the modulation of $\mathrm{Na}^{+}, \mathrm{K}^{+}$-ATPase in neurons of the medulla oblongata on hemodynamic effects in spontaneously hypertensive rats
V.Yu. Garbuzova, O.I.Matlaj, Y.A.Ataman, Ye.I.Dubovyk, A.A. Borodenko, O.A. Obukhova, A.V.Ataman. The polymorphism of matrix Gla-protein (MGP) gene in ischemic atherothrombotic stroke patients ..... 14
A. Sklyarov, O. Detsyk. The changes of the activity of NO-synthases and oxidative processes under conditions of 5-HT4 receptors activation in the stomach and large intestine in streptozocin-induced diabetes mellitus ..... 22
S.I. Savosko, Yu.B. Chaikovsky, N.K.Pogorela, A.N.Makarenko. Histostructural changes of rat cerebral cortex during hemorrhagic stroke modeling ..... 28
L.V. Chikina, S.V. Fedorchuk, V.A. Trushina, P.I. Yanchuk, M.Yu. Makarchuk. Influence of mental rotation of objects on psychophysiological functions of women ..... 36
A.V. Dovgan', O.V. Vlasenko, T.V. Buzyka, V.A. Maisky, A.I. Pilyavskii, A.V. Maznychenko. Food-procuring stereotype movements is accompanied by changes of $s$-fos gene expression in the amygdala and modulation of heart rate in rats ..... 44
V.I. Portnichenko, V.I. Nosar, A.M. Sydorenko, A.G. Portnychenko, I.M. Mankovska. Continuous adaptation of rats to hypobaric hypoxia prevents stressor hyperglycemia and optimizes mitochondrial respiration under acute hypoxia ..... 56
Y. Kyiak, N. Fartushok, Y. Onyschuk, Y. Fedevych, G. Bashta. Profile of proinflammatory cytokines in type 1 diabetes mellitus ..... 65
O.N. Lysenko. The changes of physiological reactivity of cardiorespiratory system to respiratory homeostasis with the use of complex stimulation of special work capacity ..... 70
REVIEWS
M.N. Tkachenko, T.F. Liubarets. Genetic aspects of indeterministic effects of ionizing radiation ..... 78
O.I. Sukmansky, I.O. Sukmansky. Contemporary conceptions about innate immunity ..... 86
CHRONICLE ..... 92
JUBILEE DATES ..... 94

