

## **Contents**

I.I. Drebot , O.I. Boldyryev , V. E. Dosenko, P.G. Kostyuk Expression of TRPV1 and TRPV2 receptors mRNA in the cultured hippocampal neurons	3
O.D.Prysyazhna, V.F.Sagach The role of mitochondrial uncoupling proteins in the development of changes of endothelium-dependent reactions of heart and vessels at experimental diabetes mellitus	10
N.V. Bulgakova, A.N. Tal'nov, A.P. Mel'nichouk, A.I. Kostyukov Systematic positioning errors and electromyographic activity of muscles in the human single-joint movements	17
D.M. Masyuk, V.S. Nedzvetskii, M.I. Tsvilikhovskii, P.O. Nerush The changes of expression and Fc-g-receptor's polypeptide composition of small intestines enterocyte of bos primigenius taurus l. Fetus	27
I.V.Lushnikova, I.R.Nikonenko, A.G.Nikonenko, G.G.Skibo Spatial distribution of synaptic vesicles in ca1 hippocampal synapses after brief anoxia-hypoglycemia and tetanic long-term potentiation	35
O.V. Vlasenko, V.A. Maisky, A.V. Maznychenko, A.I. Pilyavskii NADPH-diaphorase activity and neurovascular coupling in the rat cerebral cortex	45
O.Tuchak, N. Voronich-Semchenko The changes in lipid peroxidation processes, antioxidant system, nitrogen oxide level during iodine deficiency	54
T.I. Tavolzhanova, K.V. Rozova , T.V. Kukoba Connection of functional characteristics and ultrastructure of lung and myocardium under hypoxia and stress	58
I.V. Brodyak, N.A.Sibirna Peculiarities of the L- arginine metabolism in the blood leukocytes under experimental diabetes mellitus	63
M.V. Kovalenko, L.M. Stepchenko, A.I. Shevtsova O.Z. Brazaluk, P.F. Surai The influence of selenium-containing supplements on the resistance forming in chicken	69
G.F. Beloklitskaia, A.V. Pogrebnyak, J. Khalili Influence of diet rations with different micro-element composition on the state of alveolar and pelvic bones in rats	74
S.O.Kovalenko Cross-spectral analysis of the stroke blood volume oscillations and R-R interval duration among men at rest and with different loadings	79
I.G. Litovka Alimentary and oxygen deprivation as the modulator of the bone tissue physiological remodelling rate in young rats	85
<b>Review</b>	
I.S. Checkman, K.V. Tarasova, V.G.Shevchuk K <sub>ATP</sub> channels: physiological properties and influence of medicinal substances	94