

Contents

O.V. Vlasenko, V.A. Maisky, A.V. Maznychenko, A.I. Pilyavskii, V.M. Moroz. Investigation of <i>c-fos</i> expression and nadph-diaphorase reactivity in cervical cord and brain after fatiguing stimulation of the neck muscles in the rat	3
L.N. Shapoval, L.S. Pobegailo, O.V. Dmytrenko, L.G. Stepanenko, V.F. Sagach. Effects of changes in mitochondrial permeability transition of medullary cardiovascular neurons on circulation in rats	15
O.V. Sachinska, L.V. Chaikovska, A.G. Reznikov. Influence of combined application of the synthetic luteinizing hormone-releasing hormone agonist and non-steroidal antiandrogen on reproductive system of rate males	25
M.D. Tronko, O.I. Kovzun, E.N. Grinchenko, A.S. Mikosha. Effects of estradiol on corticosteroids synthesis, activity of protein kinase A and C in the adrenal cortex of intact and orchietomized rats	30
O.O. Grygorov, A.O. Moskalyuk, S.A. Fedulova, N.S. Veselovsky. Voltage-activated potassium channels of the inhibitory interneurons of hippocampal culture	35
P. A. Nerush, E. D. Demchenko. The condition of glial fibrillary acid protein (GFAP) in the structures of rats' brain under hypothyroidism.	45
N. Rozmaritsa, N. Makogon, I. Gerashchenko, I. Alexeyeva. Effect of highdispersed silica on the cultured rat hepatocytes and their death pathways	52
I.F. Labunets. Thymic factors and melatonin-producing pineal function in mice in aging	57
L.V. Natrus. The particulars of the rostral hypothalamic neuron reactions in reaction to the electrical stimulation to the nearchipaleocortex of the cat brain	63
O.S. Zayachkivska. Molecular mechanisms of plant proanthocyanidins cytoprotective action on gastric lesions of different genesis	71
Loay Khaled Mohammad Hassouneh, Y. Semenova, O. Krasilnikova, N. Babenko. Age features of signaling lipids content in rat liver and brain	79
O.V. Severynovska, M.O. Grygorova, O. Yu. Zaychenko, V.K. Rybalchenko. An influence of ecopathogenic environmental factors on the system of antioxidant defense in different parts of rat brain	85
G.S. Petrov, V.P. Liashenko, I.V. Kofan, I.V. Dergval. Mental capability of higher school students of different specialties	93
REVIEW	
Z.A. Serebrovska1, T.V. Serebrovskaya, M.L. Di Pietro, R.L. Pyle. Fertility restoration by the cryopreservation of oocytes and ovarian tissue from the position of biomedical ethics: a review	101