Contents

A.P. Kondratskyi, G.V. Sotkis, O. I. Boldyrev, K.O. Kondratska, O.P. Lyubanova, Iu.B. Dyskina, D.V. Gordienko, Ia.M. Shuba Functional Identification of a TRPM8 cold receptor in rat prostate epithelial cells 3

H.E. Purnyn, O.V. Rikhalsky, S.A. Fedulova, M.S. Veselovsky Synaptic responses and intraganglionic connections of rat superior cervical ganglia neurones 14

Ju.P. Korkach , O.V. Rudyk, A.V.Kotsuruba , O.D. Prysyazhna , V.F. Sagach The nitric oxide and superoxide synthesis in protective action of ecdysterone in mitochondrias of rat's hearts with streptozotocin-induced diabet 22

N.V. Makogon, T.Y. Voznesenskaya, T.M. Bryzgina, V.S. Sukhina, N.G.Grushka, I.N. Alexeyeva The protective effect of molsidomin in immune ovarian failure in mice 29

O.V. Dovgan', V.O. Maisky, O.I. Pilyavskii, A.V. Maznychenko Investigation of nadph-diaphoraso-reactivity and neurovascular coupling in the basal forebrain limbic structures and hypothalamus 35

T.V. Martynova, L.I.Alexyuk Functional activity of peritoneal macrophages at concanavalin A - induced hepatitis in mice 47

T.V. Gamma, I.I. Korenyuk Effect of benzimidazole and its derivatives on electrical neuronal activity of helix albescens rossm. And rat behavior 53

D.O. Kryshtal, V.V. Nessin, M.F. Shuba Effect of paxilline on Ca^{2+}-dependent K^{+} current in smooth muscle cells isolated from rat vas deferens 67

V.V. Vereshchaka Age-dependency of the state of skin microvessels 75

N. Voronich-Semchenko, I. Yemelyanenko The state of thyroid gland and psychical development of socially deprived children during treatment by "Iodide-100" 81

V.I. Sobolyev, T.V. Moskaletz Energetics of isometric muscle contraction in white rats under thyroidectomy. 86

O.S. Trushenko, O.B. Murzin, A. I. Rudenko Periodic motor-secretor activity of stomach in disbalance of its regulatory mechanisms 91

V.V. Kalnysh, A.V. Shvets Psychophysiological peculiarities of decision outcomes of complexity- related tasks 99

L.Ye.Lapovets Neuroendocrinal and immune interactions in healthy individuals under 109