

Contents

V.F. Sagach, Yu.P. Korkach, A.V. Kotsuruba, O.V. Rudyk, G.L. Vavilova. Mitochondrial permeability transition pore opening inhibition by ecdysterone in heart mitochondria of aging rats	3
V.P. Pishak, R.Ye. Bulyk. Circadian changes of the density of melatonin receptors 1a in the neurons of the suprachiasmatic nuclei of the rat hypothalamus under conditions of diverse functional activity of the pineal gland	11
A. P. Kondratskyi, K. O. Kondratska, G. V. Sotkis, V.G. Naidenov, Ia. M. Shuba. A hyperpolarization-activated current in rat menthol-sensitive sensory neurons	16
S.A. Talanov, V.F. Sahach. Antioxidants prevent experimental hemiparkinsonism in rats	23
D.A. Zubov. Immunoregulatory role of mesenchymal stem cells in bone reparation processes	30
Y.P. Limansky, E.V. Bagatskaja, E.V. Gura, E.N. Nesin, B.S. Sushko, Z.A. Tamarova. Influence of quercetin on somatic pain in different genetic strains of mice	37
N.V. Bogdanovskaya, N.V. Malikov. Functional state of vascular endothelium at the systematic physical loadings	44
Reviews	
L.M. Lazarenko, O.M. Demchenko, L.T. Rachkova, L.D. Kryvokhats'ka, Z.M. Olevins'ka, M.Ya. Spivak. Effect of cord blood cells on interferonogenesis and effector cells of immune system	47
Abstracts of 1st International Scientific Conference “High Altitude Hypoxia and Genom” Terskol, Russia August 14–17, 2008	55
Jubilee dates	102
Book Review	111