

CONTENTS

N.A. Strutynska, O.M. Semenykhina, S.V. Chorna, G.L.Vavilova, V.F. Sagach. Hydrogen sulfide inhibits Ca ²⁺ -induced mitochondrial permeability transition pore opening in adult and old rat heart	3
O.M. Paduraru, I.B. Philyppov, O.I. Boldyrev, I.A. Vladymyrova, Ia.M. Shuba. Urothelium-dependent modulation of urinary bladder smooth muscle contractions by menthol	15
K.V. Nesvitalova, O.A. Gonchar, T.I. Drevitskaya, L.P. Arabskaya, M.M. Steshenko, O.M. Bakunovsky, T.V.Serebrovskaya, I.N. Mankovskaya. Changes in mRNA and protein expression of antioxidant enzymes in children with bronchial asthma after interval hypoxic training	23
V. A. Sukach, A.Z. Buta, O.P. Maximyuk, D.B. Kovalskyy, M.V. Vovk, O.O. Krishtal. (3-carboxamidino-2-oxo-2h-chromen-7-yl)-4-guanidinobenzoates are novel blockers of acid sensing ion channels	31
Yu.Goshovska, T.Shimanskaya, V.Sagach. Genipin, an uncoupling proteins inhibitor, reduces the protective effect of ischemic preconditioning	38
O. V. Korkushko, E. O. Asanov, I. A. Dyba. Effect of positive end expiratory pressure on breath test pulmonary gas exchange in elderly people with accelerated aging	46
O.V. Klimyuk, O.V. Bonzik, E.M. Reshetnik, S.P.Veselsky, M.Yu. Makarchuk. Peculiarities of bile formation in rats of different sex in estron influence	52
A.V. Tkachuk. Effect of streptozotocin-induced diabetes and incomplite global brain ischemia on apoptosis in the rats thymus	58
V.A. Berezovskiy, T.M. Zamorska, I.G. Litovka, R.V. Yanko. Normobaric hyperoxia effects on the markers of bone metabolism	65
L.M. Gunina. An influence of sodium succinate on erythrocytes at oxidative stress under physical loading	71
A.M. Manko, T.V. Beregova, K.S. Neporada, D.S. Yankovskyy. The influence of symbiter, an acidiphilic multiprobiotic, on pathological changes in bone periodontal tissue under hypoacidity	80
O.A. Panchenko, V.O. Onishenko, Y.E. Liakh. The reaction of human thermoregulation on the impact of extreme ultra-low temperature	85
L.N. Bogdanova, S.K. Matisheva. Features electrocardiogram in female Black sea bottlenose dolphins (<i>Tursiops truncatus</i>)	93
REVIEWS	
I.S. Chekman, P.V. Simonov. Structure and function of biomembranes: influence of nanoparticles	99