

Contents

P.G. Kostyuk, V.F. Sagach, V.M. Kiyenko, M.N. Tkachenko, A.N. Shevko 70 years to A.A. Bogomolets Institute of Physiology NAS of Ukraine	3
V.F. Sagach, A.Y. Boguslavskiy, A.V. Dmitrieva, S.N. Nadtochiy the role of NO and mitochondrial permeability transition pore in the regulation of oxygen Cost of a skeletal muscle contraction	19
S.N. Pyvovar, R.B. Strutinskii, L.M. Yagupolskii, A.A. Moibenko Vasodilatory properties of the new fluor-containing analogues of diazoxide: mechanism of their action	27
A.A. Moibenko, M.Y. Yuzkiv, L.V. Tumanovska, A.V. Kotsuruba Acute myocardial ischaemia-reperfusion: the role of nitric oxide system	34
O. V. Korkushko ¹ , V. F. Sagach, V. Yu. Lishnevskaya Some mechanisms of endothelial dysfunction in aging	43
V. F. Sagach, G. L. Vavilova, N. A. Strutyns'ka, O. V. Rudyk The aging increase in the sensitivity of the mitochondrial permeability transition pore opening to inductors in rat heart	49
N.V.Ruban The role of systemic inflammation in the development of the atherogenic plasma abilities	64
B. S. Sushko, A. V. Budak Features of somatic painful reaction and painful sensitivity of the animals in different genetic groups	75
E.V.Bagatskaya, E.V.Gura Investigation of pain reaction and analgesia evoked by microwaves of low intensity on the point of acupuncture in mice of two genotypes and white laboratory mice	80
T.M.Kovalenko, I.O.Osadchenko, K.G.Smozhanyk, I.R.Nikonenko, D.Muller, G.G.Skibo Structural characteristics of rat hippocampal cal area after experimental ischemia of the brain	86
V.Lushnikova, K. Voronin, P.Y.Malyarevskyy, G.G.Skibo Effects of oxygen-glucose deprivation of different duration on hippocampal slice cultures	94
Y.V.Shevchuk Electrophoresis motility of human tonsil lymphocytes of patients with chronic tonsillitis	101
S.L.Tokar, L.M. Koval, E.A. Lukynetz, E.N. Yavorskaya Features of cultural rat adrenocortical cells ultrastructure in norm and after adrenocorticotrophic hormone or calcium ionophore a23187 application.	105
M.S. Reheda, I.V.Poliyanz Condition of prooxidant - antioxidant system in rat blood plasma in acute experimental pneumonia	111