

Contents

Nagibin V.S., V.E. Dossenko., Pivovarov S.N., Moibenko A.A., Yagupolskiy L.N. Fluorine-containing analog of diazoxide prevented of neonatal cardiomyocytes apoptosis during anoxia-reoxygenation	3
T.G. Sazontova, L.M. Belkina, A.G. Zhukova, T.N. Kirillina, Yu.V. Arkhipenko Contractile function of the heart and antioxidant system in august and wistar rats during ischemia and reperfusion	9
S.V.Bychkova, V.V. Man'ko, M.Yu.Klevets Regulation of intracellular calcium- released channels in secretory cells of chironomus plumosus larvae by cyclic nucleotides.	16
T.I. Tavalzshanova, K.V. Rozova, Dubovaya M.G., Petrenko A.V. Correlation among air-blood barrier of lung thickness and the main indexes of external respiration, gas exchange, blood O ₂ transport during the changes in oxygen concentration in breathing gas	24
R.F. Naumko The dynamics of antioxidant enzyme activity changes and the alterations of contents of lipids per oxidation in animal blood vessel wall at hyperadrenalinaemia	30
Yu. A. Grinevich, G.D.Bendyng, N.N.Khranovskaya, Yu.N.Belokon, A.N.Ostapenko The effect of combined use of thyroxin and thymalin in substitutive hormonotherapy on the intensity of proliferation and apoptosis of thymocytes after thyroidectomy.	39
I.V.Poliyanz The level of peroxide lipids oxidation products and the activity of enzymes of antioxidant system in rats' pulmonary tissue in acute pneumonia . . .	44
Y.N.Onopshuk, P.V.Beloshitsky, N.I.Aralova, T.A.Syomchick Mathematical remodeling of hypoxic states during ischemic heart disease	47
S.V.Mischenko The effect of polarized light on fibrinolysis	55
I.I.Zamorsky, S.A. Gulyar Changes in prooxidant-antioxidant homeostasis in front brain of rats under the influence of bioptron device polarized light on acupuncture point	59 65
E.E.Dorofeeva Biochemical parameters of blood in high class athletes as a criterion for adaptation to long significant physical loadings	71
A.I. Ena, V.V. Kalnish, V.V. Kravchuk Interrelation features of professionally important qualities of pilots with the various suitability degree to professional work	79
G.A. Zakharov., Ch. A. Ubasheva, I.K. Mischenko, G.I. Gorokhova The influence of adaptation to high altitude on the state of electric cardiac stability and lipid per oxidation in catecholamine cardio necrosis in rats	85
Y.P. Limansky The information-wave theory of a pain	92