

Contents

M.N. Tkachenko To the 60-th birthday of V.F. Sagach	3
Sagach V.F., Shymanskaya T.V., Nadtochiy S.M. Factor released under heart reperfusion may be the marker of opening of the mitochondrial permeability transition pore	7
A.A.Moibenko, M.Ya.Yuzkiv, V.I.Azarov Investigation of coronary vascular responses in non-ischemic myocardium at experimental acute ischemia-reperfusion	14
V.F. Sagach, M.N. Tkachenko, O.D. Prysyazhna, A.V.Kotsuruba, O.F. Meged Changes in vasodilator responses of vascular smooth muscles and nitric oxide system in experimental diabetes mellitus ..	24
L.N.Shapoval, A.A.Moybenko, V.F.Sagach, L.S.Pobigaylo, O.V.Dmytrenko Nitric oxide and reflector control of blood circulation in rats	33
I.V. Kizub, A.I. Soloviev, A.A. Moibenko, A.V. Stefanov The influence of glycolysis and blockade of myoendothelial gap junctions on contractile responses of pulmonary artery and aorta in rats under hypoxia	42
O.P. Neshcheret Insulin and endothelium-dependent mechanisms of regulation of coronary circulation	48
T.A. Shenayeva, A.G. Reznikov The state of the hypothalamic-hypophyseal-gonadal axis and its functional reserves at long –term vibration and noise	56
A.A.Moybenko, A.V.Kubyshkin, V.Z.Kharchenko, N.Yu.Gorochova, P.F.Semenets Experimental approaches to prophylactic and treatment of acute lung injury by proteinase inhibitors and corvitin	63
O.L.Kukharchuk, V.V.Radchenko, V.M.Sirman, V.F.Sagach The influence of allotransplantation of embryonic pluripotent progenitor cells on the systemic arterial pressure dynamics in spontaneously hypertensive rats	68
Y.M. Kolesnik, M.A. Orlovsky, A.V. Abrmov, V.A. Zhulinsky Comparative study of the effects of central and conjunctive administrations of cholecystokinin to intact and diabetic rats	72
S.I.Dolomatov, A.I.Gozhenko, V.A.Zhukov, O.O.Dolomatova The influence of ultra-violet irradiation of human blood on contents of triiodo-thyronine and thyroxine in serum	80
O. V. Kostyuchenko, E. V. Evstafyeva Naloxon-dependent responses of identified snail neurones	84
V.N.Kazakov, L.V.Natrus, E.V.Gaidarova, A.V.Tereshchenko, V.I.Degtyarov Apparatus of artificial ventilation of lungs on pneumoelements for small laboratory animals in electrophysiological experiment	88
I.I.Matseyko Dynamics of parameters of attention and its relations with peculiarities of the basic nervous processes in children of middle school age	94
G.F. Beloclitskaya, A.V. Pogrebnyak Influence of diet on alveolar bone in female rats of different age after ovariectomy	100
REVIEWS	
Viktoriya V. Sagach, Ricarda A. Joachim A possible role for the mitochondrial permeability transition pore (MPTP) in bronchial asthma	106
T.M. Myshunina Gamma-aminobutyric acid in some non-neural tissues	113
JUBILEE DATES	120
HISTORY OF SCIENCE	124