

Contents

V. L. Reznikov, M. F. Shuba Spontaneous transient outward currents in smooth muscle cells of the rat tail artery	3
V. V. Yarotskiy, V. F. Sagach, S. M. Marchenko The electrical properties of intact rabbit aortic endothelium	9
V. N. Osipenko, V. E. Degtiar, V. G. Naidionov, Y. M. Shuba The blockade of HERG K ⁺ channels expressed in Xenopus oocytes by neuroleptic agents	17
O. V. Korkushko, I. V. Dolot Age-related changes in morpho-functional state of the heart	26
T. S. Lagodych Influence of nitric-oxide donators on the myocardium contractive activity	34
V. V. Alabovsky, E. J. Cragoe, A. A. Winokurov Mechanisms of action of hypersodium medium on contractile activity of isolated rat heart	39
T. M. Bryzgina, L. I. Aleksyuk, T. V. Martinova, V. S. Sukhina, I. N. Alexeyeva The effects of inhibitors of cyclooxygenase and lipoxygenase pathways of oxydation of arachidonic acid on the immune response, and the activity of monooxygenase system and lipid peroxidation in mice	46
A. I. Mardar Catecholamine depot and structural erythrocytes transformations under the conditions of sympathetic adrenaline system functional disorders	53
A. A. Philchenkov Elevated LEVEL of TGF-alpha in rat small intestinal mucosa following massive small bowel resection	61
S. N. Vadzyuk, N. E. Zyatkowska The peculiarities of pulmonary blood circulation in young healthy adults in vertical and horizontal position influenced by different weather types	68
I. A. Paliyenko Influence of differential colourlight stimulation of the head brain hemispheres on parameters of a heart rhythm autocorelogram in healthy persons	73
M.I.Popichev, S.V.Konoshenko, N.V.Tolkachova, E.G.Luzik, V.A.Jurba The influence of the food additions, contained polyunsaturated fatty acids, on the activity of some intraerythrocyte enzymes and on the affinity of haemoglobin to oxygen in organism of sportsmen-volleyball with different qualification under intensive muscle work	76
E. M. Klimova, A. V. Paranich, I. Yu. Voloshina, N. V. Efimova, Yu. A. Suprun Study of antioxidative homeostasis of sick people in critical state	80
T. V. Serebrovskaya, N. M. Kurgalyuk, V. I. Nosar, E. E. Kolesnikova Intermittent hypoxic training with exogenous nitric oxide improves rat liver mitochondrial oxidation and phosphorilation under acute hypoxia	85
M. D. Tronko, D. S. Sidorenko, L. M. Bykova, M. G. Boyko, M. M. Goydash, G. L. Synelnikova Vilosen as means for correction of the immune system irradiation damage	93
V. V. Kostyushov, N. V. Kostyushova, S. I. Pavlovich, U. P. Sachno, O. L. Timchishin Thiol-dependent of the mechanism of interplay <i>in vitro</i> of proteins of an acute phase with serology by related monospecific serums	98

Reviews

P. P. Chayalo, G. I. Plyushch Pathogenic role of free-radical violation under radiation-induced atherosclerosis	107
M. I. Boyko, K. R. Nurymanov The modern concept of the peripheral erectile mechanisms	116

History of Science

V.N. Zaporozhan, A.I. Gozhenco, L.V. Gerasimova The Kiev period of the scientific activities V.V. Podvisotsky	133
---	-----