

## Contents

V.F. Sagach, A.V. Dmitrieva, T.V. Shimanskaya, S.M. Nadtochiy Release of a factor after myocardial ischemia during reperfusion - the investigation of its influence on myocardium, coronary and peripheral vessels	3
N.V. Makarenko, V.S. Lizogub, Y.A. Petrenko, T.A. Bibik, O.E. Yavnik, L.I. Yuchimenko Functional state of the central nervous system in people with different agility of nervous processes at transforming information with different levels of difficulty	9
N.I. Lisyany, L.D. Lyubich, O.V. Markova, L.N. Belska Humoral autoimmune responses against neurospecific proteins in rats with experimental allergic encephalomyelitis and their immunocorrection with allogenic nervous tissue	15
V.V. Yarotsky, V.F. Sagach, S.M. Marchenko Influence of adrenoceptor agonists and changes in intracellular cyclic nucleotides concentration on the membrane potential of isolated endothelial cell layer from rabbit aorta	24
V. P. Pishak, Yu. E. Rogovoy, L. O. Filipova, Ye. S. Stepanova Pathogenetic role of prostanoids in dysfunction of sodium ion reabsorption as main energy-dependent process in kidney at acute kidney insufficiency	30
T.M. Govorukha, A.I. Nazarenko, L.I. Zhalilo, G.B. Phil., V.M. Baban, M.M. Seredenko Disturbances in the processes of bilification at tissue hypoxia and attempts of their correction	35
S.B. Koval, T.N. Kovalenko, M.M. Seredenko Release reaction by thrombocytes at physiological and complicated pregnancy	41
A.P. Cherchenko, I.N. Todor The brain energetic metabolism disorders in bemegride-kindled rabbits	50
Ye.M. Neyko, R.I. Yatsyshyn Significance of interleukin-1 and interleukin-2 in pathogeny of systemic scleroderma	56
L.B. Litvinova, V.M. Vakula Influence of restored 5 $\alpha$ -androgens on puberty in the female rats	62
L.G. Petryna Dynamics and dose dependences of impairment in rna and dna syntheses in the thymus of radiation-exposed animals	67
N.Ya. Karbashevskaya Lipid peroxidation in organs and blood of rats at hypergravity loading	75
I.A. Gromakova, S.Ts. Zilberman, O.A. Konovalenko Age peculiarities at experimental hypothyroidism in rats	80
V.U. Garbuzova Intensity of lipid peroxydation and antioxidant enzyme activity in arterial and venous walls at hypervitaminosis D	87
I.F. Labunets Altered differentiation of thymocytes at aging: role of pineal gland peptide factors	91
Y. M. Gotsulyak, T. K. Berdyeva, C. V. Libert Effects of blockers of the T-type Ca <sup>2+</sup> channels on spontaneous meiotic maturation of murine ovarial oocytes in vitro	98

## Reviews

E. P. Kostyuk, P. G. Kostyuk Common mechanisms in the damaging effects of hypoxia and hyperglycemia on neuronal function	102
I.V. Kizub, A.A. Pavlova, V.F. Sagach, A.I. Soloviev Modern concept of the hypoxia effects on vascular tone	112