

CONTENTS

A.V. Kotsuruba, B.S. Kopjak, V.F. Sagach, N.JA.Spivak. Restoration of erythrocytes stability to acid hemolysis by cerium oxide nanoparticles in old rats	3
K.V.Tarasova, T.S.Lagodych, T.I.Drevytska, I.M.Karvatsky, S.B.Frantsuzova. The impact of pharmacological activation of ATP-sensitive potassium channels on the parameters of spontaneous activity of isolated neonatal rat cardiomyocytes	10
A.V. Basanets, L.V. Dolinchuk, T.A. Andrushchenko. The association of promoter gene matrix metalloproteinase-9 polymorphism C ⁻¹⁵⁶² →T with the risk of chronic obstructive pulmonary disease in miners	16
N.A. Dorofeyeva, K.O. Drachuk, V.F.Sagach. Cardiohemodynamics and efficiency of Frank–Starling mechanism during aging	22
S.V. Chorna, N.A. Strutynska, O.M. Semenykhina, S.O.Talanov, Dosenko V.E., A.V.Kotsuruba, G.L. Vavilova, V.F. Sagach. Long exercise training improves heart function in aged rats by NO-dependent decrease in mitochondrial pore sensitivity to calcium	27
L.N. Plotnikova, V.A. Berezovskii. Reaction of fibroblast-like blood cells to a low partial oxygen pressure	36
Yu.O. Fedotova, G.O. Frolova. Effects and quiperole and sulpiride on emotional behaviors in female rats	41
V.V. Ramazanov, E.L. Volovelskaya, V.A. Koptelov, V.A. Bondarenko. Properties of erythrocytes with low degree of integrity after freezing with non-penetrating and penetrating cryoprotectants	46
N.V. Grigороva. The effect of adaptive hormones on the secretory activity of insular apparatus and the zinc content in it and in the cells of hippocampus, pineal and thymus glands in rats with alloxan-induced diabetes	54
O.A. Kravchenko, I.V. Yakubtsova, T.D. Khilko, T.D. Preobrazhenska, L.I. Ostapchenko, V.F. Chekhun. Influence of complex natural substances trigonella foenum graecum l. Seeds on forming aberrant crypt foci in the mucosa at experimental colon cancer in rats	62
E.L.Toryanik. Hemostatic features in hypertensive pregnant rats	69
REVIEWS	
Mitochondria as a target of intermittent hypoxia	75
ANNIVERSARIES	87
CHRONICLE	91