## Contents

| V.F. Sagach, O.D. Prysyazhna, M.N. Tkachenko, A.V.Kotsuruba The effect of L-arginine on the functional activity of endothelium under experimental diabetes mellitus   | 3   |
|---|-----|
| V. V. Garkavenko, A. V. Gorkovenko, O. P. Mankivska, A. M. Shevko, O. I. Kostyukov Effect of tonic painful squeezing of the distal joint of the little finger on the srectral power of different frequency ranges in eeg activity V.Y. Berezowskiy, V.T. Yaroshenko Electrophysiological study of tissue hydration under typical non-specific pulmonary pathology | 8   |
| À.M. Shysh, T.V. Kukoba, L.V. Tumanovs'ka, O.O. Moóbenko Cardioprotective effect of phospholipid membrane modification on myocardium during stress injury   | 17  |
| V.A. Maisky, A.I. Pilyavskii, A.V. Maznychenko, V.V. Datsenko, V.B. Pavlyuchenko, A.I. Kostyukov, A.À. Moibenko Central neuronal circuits of the bezold-jarish reflex in the rats   | 24  |
| V.E. Dosenko, V.Yu. Zagoriy, N.V. Haitovich, O.A. Gordok, O.O. Moibenko Allelic polymorphism of endothelial NO-synthase gene and its functional meaning   | 39  |
| I.A. Khripachenko, A.V. Savustyanenko, L.A. Kedenko, I.I. Zinkovych Heart rate variability analysis as a measure of baroreflex sensitivity  | 46  |
| V.Y. Berezowskiy, V.T. Yaroshenko Electrophysiological study of tissue hydration under typical non-specific pulmonary pathology   | 51  |
| Z.A. Tamarova, Y.P. Limansky, S.A. Gulyar Comparative testing of analgesia evoked by polarized light and analgetics   | 57  |
| <i>Ò.V. Radysh, V.P. Chernyshov</i> Immunopathophysiologic features of early pregnancy in women with a history of unexplainable pregnancy loss  | 65  |
| V. P. Lyashenko, O. M. Pasichnichenko Modulation of electric and contractile responses of the endothelium in aorta at hyperholesterinemia and treatment with calcium antagonists.   | 73  |
| V.S. Shevchenko Formation of immunity and tolerance to the cell membrane components under primary and secondary (postimplantation) cardiac immunopathies  | 81  |
| O.O. Goncharuk Features of operated nerve regeneration under decompensated form of diabetes   | 86  |
| P.O. Radzievsky Mechanisms of adaptation to intermittent hypoxic training course in sportsmen of high qualification   | 90  |
| I.V. Kuznetzova, D.A. Evstigneev, N.V. Gluhova Transformation of electrical activity in the myelinated nerve fibres of amphibia by 4-aminopyridine  | 96  |
| A.N. Volyansky Estimation of individuals levels of the physiologyical expenditures in mental work   | 104 |
|   |     |