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The heterogeneity of development of lipid peroxidation processes in bulk and annular lipids of biological membranes

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The spectral and kinetical parameters of phosphorescence of lipid peroxidation (LPO) products in human erythrocyte membranes and in bioplates from human stomach mucous shell have been investigated. Based on results of analysis of phosphorescence of LPO products *in vitro* and *in situ* the heterogeneity of development of lipid peroxidation processes in cellular membranes has been shown.