SELF-ORGANISATION OF NANOSTRUCTURE IN LIPIDS-WATER SYSTEMS
T.A, Rashevskaya, I. S. Gulyi, A.I. Ukrainets, I. O. Korenev
National University of Food Technologies, Kiev, Ukraine
Cooperation of lipids with water phase is one of the most important, biological systems in lining cells, food products etc. We carried electronic-microscopically researches, which showed stratiform nanostructure of lipids-water system. There are nanoblocks as the structural element of it, which consist of nanolayers of lipids and nanopanicles of water. Their self-organization bases on phase transformations of lipids, which accompanied by glycerol lamelies forming. They have nanopores in area of metil groups. Nanopores are the place, where nanoparticles of water ionning, which accumulate and form nanolayers in interlarnellar area. Showed, that temperature lowering and increase of longevity isothermal quotation bring to forming of system nanostructure with nanoblocks, which have smaller size.