Zagadnienia Biofizyki Współczesnej tom 8, 1983, 53-101

Influence of amphiphile detergents on liposome membranes

Janina Kuczera

The article contains a short review of knowledge about biological model membranes, systems containing amphiphile compounds and about the influence of some amphiphile detergents on liposome membranes and on ion transport across the membranes. Results are analysed of studies of divalent ion permeation across lecithin liposome membranes in the presence of amphi phile ammonium salts. The compounds were so chosen as to differentiate the influence of electric field distribution, size of the polar head and length of the alkyl chain of the compounds on ion transport processes and membrane structure. A molecular mechanism of the action of the studies for testing biological activity of substances and for purposeful synthesis of this type of compounds.