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The role of polyprenol in modulation of physical properties of model membranes

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The influence of hexadecaprenol on molecular organisation and transport properties of model lipid membranes (monolayers and bilayers) was investigated. Current-voltage characteristics were measured. Dependence of area per molecule at constant surface pressures, deviations from the rule of additivity, membrane permeability coefficient for sodium ions was determined. The data show that the presence of polyprenol in lipid membranes modulates their molecular organisation and transport properties.