

Radical-induced peroxidation and fragmentation of lipids in model membranes

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In this report, data permitting to estimate the interrelation of free-radical fragmentation and lipid peroxidation processes in model membranes are presented. These data were obtained in the course of radiation-induced lipid peroxidation studies in two-component liposomes, containing the easily oxidized rat liver phosphatidylcholine. As the second component peroxidation-stable saturated phospholipids, which can undergo fragmentation, were used. It is shown that intermediates and products of free-radical fragmentation of lipids can modulate the course of the peroxidation reaction of glycerophospholipids.