

Interaction of isolated erythrocytes membrane skeletons with phospholipids

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Isolated erythrocyte skeletons were found to interact with vesicles prepared from either total lipids extracted from erythrocyte membranes or from phosphatidylcholine, phosphatidylethanolamine phosphatidylserine as well as from a (60:40) mixture of phosphatidylcholine and cholesterol or phosphatidylethanolamine with phosphatidylserine. The binding was saturable giving maximal binding capacities in a range from 2 (for isolated lipids) to 4 (total lipids from erythrocyte membrane) milligrams of lipid per milligram of protein. Erythrosomes, reconstituted structures obtained in this way, entrapped sucrose and hemoglobin solutions. Their barrier properties were not, however, maintained overextended time periods.