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Polymer-membrane interactions in both cases cause changes in the membrane permeability, obviously resulting from formation of disturbances in the membrane packing.

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More significantly, synthetic polymer membranes have a much higher molecular mass and are thus considerably thicker membrane, which results in a mismatch in length between the hydrophobic domain of the copolymer membrane and the membrane-spanning hydrophobic domain of the protein.

Biopores/membrane proteins in synthetic polymer membranes

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Being lipid-like only in the latter sense, vesicle-forming polymers offer fundamental insight into natural design principles for biomembranes. From archaebacteria to humans, cell membranes are self-assemblies of lipids (Fig. 1 A, a) as well as integrated and peripheral membrane proteins (i.e., large and structured biopolymers).

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Polymer membranes may be functionalized into ion exchange membranes by the addition of highly acidic or basic functional groups, e.g. sulfonic acid and quaternary ammonium, enabling the membrane to form water channels and selectively transport cations or anions, respectively.

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