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Water passes through the lipid bilayer by diffusion

and by osmosis, but most of

it moves through special protein channels called

aquaporins. Explanation:

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Water can diffuse through the lipid bilayer even though it's polar because it's a very small molecule.

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Water movement through lipid bilayers, pores, and plasma

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Abstract. This paper, the fourth of a series, is

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concerned with the movement of water across the bilayer lipid membrane (BLM). The water permeability coefficients, P_o , were determined for BLM formed from oxidized cholesterol, cholesterol-DAP (dodecyl

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acid phosphate), and
cholesterol-HDTAB
(hexadecyltrimethylammonium
bromide).

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How Can Water Pass Through The Lipid Bilayer Socratic water passes through the

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lipid bilayer by diffusion and by osmosis but most of it moves through special protein channels called aquaporins. Ion Transport In Lipid Bilayer Membranes Through Aqueous Pores

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Physiologists (John Willey,
1988), Vol. 4, pp. 1-228.

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*Water state and diffusion
through lipid bilayers:*

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Effect . . . Plasma

While each bilayer stops the ions and slows the movement of water, it can only hold back a certain pressure.

Water will continually leach into or out of the cell.

Different types of organisms

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have different strategies for dealing with water loss, most depending on proteins within the lipid bilayer or extracellular support structures (cell walls) to help mitigate water and ions appropriately.

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...

Uncatalysed movement of
phospholipids between the
bilayers is possible, but
this is slow and cannot be

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relied upon to maintain the asymmetry equilibrium.

Instead, lipid translocator proteins catalyse

phospholipid movement between the bilayers.

Flippases move phospholipids from the outer leaflet to

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the inner leaflet.

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The anomalously large
permeability of water
through bilayers is still
not completely understood

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and continues to be the subject of active debate. Small uncharged apolar molecules diffuse through lipid bilayers many orders of magnitude faster than ions or water. This applies both to fats and organic

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solvents like chloroform and ether. Regardless of their polar character larger molecules diffuse more slowly across lipid bilayers than small molecules.

Lipid bilayer - Wikipedia

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Water movement through lipid bilayers, pores, and plasma membranes by Alan

Finkelstein, 1987, Wiley

edition, in English

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Water movement through lipid bilayers, pores, and plasma

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Osmosis occurs as water can cross the lipid bilayer through specialized channels for water movement called proteins. The plasma membrane is a thin sheet of lipid embedded with

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When water enters into the bilayer, it promotes the formation of a solute solution in the bilayer bulk; i.e., a ternary

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lipid/water/permeant solution appears. The rehydration inside the bilayer promotes bilayer expansion during the swelling.

Permeability of water and

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*polar solutes in lipid
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