

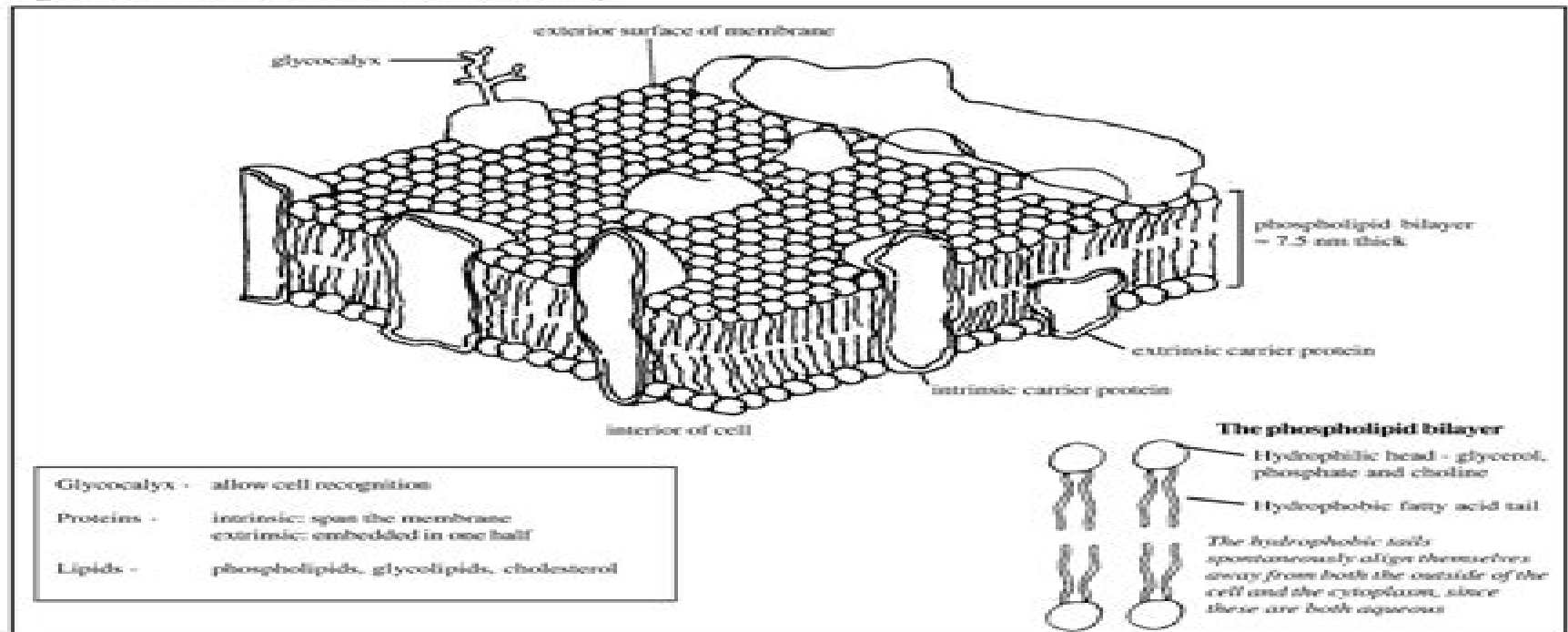


Active Transport

Active transport is the movement of molecules or ions across a differentially permeable membrane up a concentration or electrochemical gradient. Active transport is not passive, it requires ATP. In fact, in some cells nearly 50% of all the energy used is for active transport.

Active transport involves transport proteins. These proteins span the cell surface membrane (Fig 1).

Fig 1. Cell surface membrane (fluid mosaic model)



Transport proteins may move:

- A single substance in a single direction across a membrane
- Two substances in the same direction across a membrane
- Two substances in opposite directions across a membrane

The process of active transport is still not fully understood. However, it is the general principles only that are important at this level and these can be illustrated by a form of active transport that occurs in almost every animal cell: the sodium-potassium pump (Fig 2).

Exam Hint: You do not need to be able to reproduce Fig 1. However you may be asked to:

1. Draw a simple diagram of the phospholipid bilayer and recall its approximate width
2. Describe the functions of the phospholipids, proteins and the glycolyx
3. Explain how the properties of the phospholipids influence the properties of the membrane

Bio Directed Reading Active Transport

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