

Self-Assembly: Cell Membranes, Surfactants and Detergents (PHILIP)

1.1 The Phospholipid Bilayer

The phospholipid bilayer is the primary building block of the cell membrane, which separates the cell from its environment. The bilayer is composed of two layers of phospholipids, which are molecules that have a hydrophilic (water-loving) head and a hydrophobic (water-fearing) tail. The hydrophilic heads of the two layers face each other, while the hydrophobic tails of the two layers face each other, creating a barrier that is impermeable to water and most small molecules.

The cell membrane is a phospholipid bilayer, meaning it is made of two layers of phospholipids. Each phospholipid molecule consists of a hydrophilic (water-loving) head and a hydrophobic (water-fearing) tail. The hydrophilic heads of the two layers face each other, while the hydrophobic tails of the two layers face each other, creating a barrier that is impermeable to water and most small molecules.

Phospholipids are made up of a hydrophilic head and a hydrophobic tail. The hydrophilic head is made of a phosphate group and a glycerol backbone. The hydrophobic tail is made of two fatty acid chains. The hydrophilic heads of the phospholipids in the bilayer are facing each other, while the hydrophobic tails are facing each other. This arrangement creates a barrier that is impermeable to water and most small molecules.



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RJ Alexander



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