Chapter 4: Transport across cell membranes

Plasma membranes

- Membranes around and within all cells.
- It forms a boundary between the cytoplasm and the environment
- It controls what exit and enters the cell

Lipid Bilayer Transport Protein Phospholipis Inside of cell (cytoplasm)

Phospholipids

- Hydrophilic heads point to the outside of the cell surface membranes as they attract water
- Hydrophobic tails point to the centre as they repel water
- They allow lipid-soluble substances to exit and enter the cell
- They prevent water soluble substances entering and leaving the cell
- They make membranes #exible and self-sealing

Proteins

- There are embedded in the phospholipid bilayer in 2 ways:
 - Some are on the surface of the membrane which act as mechanical support or work with glycolipids
 - Some go completely across the membrane and become either protein channels or carrier proteins. Protein
 channels are water-filled tubes for water soluble ions to diffuse across. Carrier proteins bind to ions and
 change shape to transport the molecules across by active transport
- They provide structural support
- They form cell-surface receptors to identify cells

Permeability of cell-surface membrane

- Controls movement of molecules in and out of cell.
- Most molecules can diffuse easily because:
 - They're too big
 - Not soluble in lipids therefore can't pass through the bilayer
 - They have the same charge as the protein channels therefore they will be receiled
 - They're a polar molecule as the hydrophobic talls are noncolar

Fluid-mosaic model of the cell-surface membrane

- Fluid: the individual phospholipids can move therefore the structure is #exible
- Mosaic: because proteins in the bilayer vary in shape, size and pattern

Cholesterol

- Add strength
- Homophobic meaning it prevents water loss and loss of dissolved ions
- It pulls together fatty acid tails of the bilayer which limits the movement of phospholipids without making it rigid

Glycolipids (carbohydrate + lipid)

- Act as a recognition site.
- Help maintain stability of membrane
- Help cells attached to one another to form tissues

Glycoproteins (carbohydrate + protein)

- Act as a recognition site.
- Help cells attached to one another to form tissues
- Allows cell recognition ex. lymphocytes can recognise an organism's own cell

4.2 Diffusion: the net movement of molecules or ions from high to low concentration until evenly distributed

Facilitated diffusion:

- Charged ions, polar molecules and large ones diffused by facilitated diffusion
- Passive process
- Down a concentration gradient.
- Two types:
 - o Protein channels:
 - Water soluble molecules only
 - Closes and opens to control what enters and leaves.

Simple diffusion:

- Passive diffusion: natural energy
- Active diffusion: added energy like ATP
- Particles are always in random motion
- Particles are always bouncing off things
- Down a concentration gradient
- Let small, non-polar molecules through

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Leslie Santee Siskin

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Bryan, Karen Clegg, 2006-09-27 Throughout higher education assessment is changing driven by increased class size changing curricula and the need to support students better At the same time assessment regulations and external quality assurance demands are constraining assessment options driven by worries about standards reliability and plagiarism Innovative Assessment in Higher Education explores the difficulty of changing assessment in sometimes unhelpful contexts Topics discussed include problems with traditional assessment methods rationales behind different kinds of innovation in assessment complex assessment contexts in which teachers attempt to innovate innovation in assessment within a range of academic settings theoretical and empirical support for innovations within higher education More than a how to do it manual this book offers a unique mix of useful pragmatism and scholarship A vital resource for higher education teachers and their educational advisors it provides a fundamental analysis of the role and purpose of assessment and how change can be managed without compromising standards Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office.1976 The Educational System in Japan ,1998 **Pre-Service Teacher Education and Induction in Southwest** China Ju Huang, 2018-09-12 This book is a narrative inquiry that focuses on four participating Chinese teacher candidates cross cultural learning in Canada and stories of induction in Southwest China Through the lens of three dimensional inquiry space and reciprocal learning in teacher education the author explores the influence of cross cultural experiences on the dissonance of pedagogies teacher student relationships socialization and beliefs about teaching and learning that interweave global and national curriculum boundaries The chapters provide insight into how Chinese beginning teachers struggle to voice and to socialize among a cacophony of past practices lived experiences and cross cultural experiences

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