

Cellular Processes



Pre-HSC

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Activities covering the use of water potential to explain net water movements in cells are provided as web links and on the Teacher Resource CD-ROM

Learning Objectives

- ☐ 1. Compile your own glossary from the **KEY WORDS** displayed in **bold type** in the learning objectives below.

Cell Membranes (pages 88-90)

- ☐ 2. Draw a simple labelled diagram of the structure of the **plasma membrane** (cell surface membrane), clearly identifying the arrangement of the lipids and proteins.
- ☐ 3. Describe and explain the current **fluid-mosaic model** of membrane structure, including the terms **lipid bilayer** and **partially permeable membrane**. Explain the roles of **phospholipids**, **cholesterol**, **glycolipids**, **proteins**, and **glycoproteins** in membrane structure.
- ☐ 4. Describe the various functions of membranes in the cell. Outline the effect of changing temperature on membrane structure and permeability.

Cellular Transport (pages 92-98)

- ☐ 5. Summarise the types of movements that occur across membranes. Outline the role of proteins in membranes as receptors and carriers in membrane transport.
- ☐ 6. Describe **diffusion**, **facilitated diffusion**, and **osmosis**, identifying them as **passive transport** processes. Identify the types of substances moving in each case, and the role of membrane proteins and the **concentration gradient** in net movement.
- ☐ 7. Describe factors affecting **diffusion rates** across membranes: membrane thickness, surface area, and concentration difference across the membrane.
- ☐ 8. Suggest why cell size is limited by the rate of diffusion. Discuss the significance of **surface area to volume ratio** to cells and relate this to organism size.

- ☐ 9. With respect to plant cells, define the terms: **turgor** and **plasmolysis**. With respect to solutions of differing solute concentration, distinguish between **hypotonic**, **isotonic**, and **hypertonic**. Comment on the importance of ion concentrations in maintaining cell turgor.
- ☐ 10. Distinguish between **passive** and **active transport**, clearly identifying the involvement of protein molecules and energy in active transport processes.
- ☐ 11. Describe the following active transport mechanisms: **ion-exchange pumps**, **exocytosis**, **endocytosis**, **phagocytosis**, and **pinocytosis**. Give examples of when and where (in the plant or animal body) each type of transport mechanism occurs.

Cell Division (pages 99-107)

- ☐ 12. Distinguish between the two kinds of cell division: **mitosis** and **meiosis**. Discuss the role of each in the life cycle of an organism.
- ☐ 13. Describe the **cell cycle**. Distinguish between: **DNA replication** in **interphase**, **mitosis**, and **cytokinesis**.
- ☐ 14. Using labelled diagrams, summarise the main stages in **mitosis**, including reference to the events in **prophase**, **metaphase**, **anaphase**, and **telophase**. Explain where mitosis occurs in plants and in animals.
- ☐ 15. Describe the role of mitosis in growth and repair, and asexual reproduction (e.g. in yeast). Recognise the importance of **daughter nuclei** with chromosomes identical in number and type. Recognise cell division as a prelude to **cellular differentiation**.
- ☐ 16. Describe the role of **cell specialisation** and the development of tissues and organs in multicellular organisms. Describe the benefits of multicellularity in terms of functional efficiency.

Textbooks



See the 'Textbook Reference Grid' on page 10 for textbook page references relating to material in this topic.

Supplementary Texts

See page 5 for additional details of this text:
■ Addison, J., et al., 2003, *Molecules and Cells*, (Pearson/Thomson), chpt. 4 as reqd.



Presentation MEDIA
to support this topic:
CELL BIO & BIOCHEM
Cell Membranes
Processes in the Nucleus

Periodicals



See page 7 for details of publishers of periodicals:

STUDENT'S REFERENCE

- **Cellular Factories** New Scientist, 23 Nov. 1996 (Inside Science). An overview of cellular processes and the role of organisms in plant and animal cells.
- **Getting in and Out** Biol. Sci. Rev., 2003, Feb. 2008, pp. 14-18. An excellent account of diffusion, common misunderstandings and some adaptations.
- **Cell Differentiation** Biol. Sci. Rev., 20(4), April 2008, pp. 10-13. How tissues arise.
- **Water Channels in the Cell Membrane** Biol. Sci. Rev., 9(2) November 1996, pp. 18-22. The role of proteins in membrane transport processes.
- **The Cell Cycle and Mitosis** Biol. Sci. Rev., 14(4) April 2002, pp. 37-41. Cell growth and division and key stages in the cell cycle.

Internet



See pages 8-9 for details of how to access Bio Links from our web site: www.biology.com.au. From Bio Links, access sites under the topic:

GENERAL BIOLOGY ONLINE RESOURCES

■ **Biology 1 interactive animations** ■ **Instructional multimedia**, University of Alberta ■ **HowStuffWorks** ■ **Biointeractive** ... and others > **Online Textbooks and Lecture Notes**: ■ **S-Coool** A level biology revision guide Learn.co.uk ... and others > **Glossaries**: ■ **Cellular biology: Glossary of terms** ■ **Konrad's biology glossary** ... and others

CELL BIOLOGY AND BIOCHEMISTRY: ■ **Cell and molecular biology online** > **Cell Structure and Transport**: ■ **Aquapores** ■ **CELLS alive!** ■ **The virtual cell** ■ **Transport in and out of cells** > **Cell Division**: ■ **Cell division: Binary fission and mitosis** ■ **Cell cycle and mitosis tutorial**

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Tracey Greenwood



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