Changing lives through learning

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Animal Cell Function and Transport

Graded Unit Reference Number: GA33BIO28

Ungraded Unit Reference Number: UA33BIO28

Module: Biology

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the structure and functions of the animal cell	1.1 Identify the main components of the animal cell as see under the electron microscope
	1.2 Describe the function of a range of cell organelles as observed using the electron microscope
	1.3 Interpret data relating surface area, volume ratio and size and explain the need for cell specialisation in multicellular organisms
2. Understand how the function of the plasma membrane is related to its structure	2.1 Relate the arrangement of phospholipid and protein in the plasma membrane (unit membrane) to properties of these molecules
	2.2 Compare ways in which molecules, liquids and solids cross the plasma membrane and relate these to the structure of the membrane and activity in the cell
	2.3 Interpret data relating to transport of molecules across cell membrane
3. Understand the importance of cell division	3.1 Compare and contrast the stages and products of mitosis and meiosis
	3.2 Explain how each process is used to create new cells in animals, and where each process might be used

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