



University of Pretoria Yearbook 2016

Cell structure and function 367 (BCM 367)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module content	Visualising cell structure and localising proteins within cells. Cell ultrastructure. Purification of subcellular organelles. Culturing of cells. Diversity and commonality of cells. Biomembrane structure. Transmembrane transport of ions and small molecules. Moving proteins into membranes and organelles. Vesicular traffic, secretion, exocytosis and endocytosis. Cell organisation and movement. Cell-cell and cell-matrix adhesion. Practical training includes tutorials on electron-, immunofluorescent- and confocal microscopy. TLC of neutral lipids and phospholipids. Isolation and characterisation of erythrocyte membranes. Active transport studies in yeast cells.
Module credits	18.00
Programmes	BSc Biochemistry
	BSc Biotechnology
	BSc Genetics
	BSc Human Genetics
	BSc Human Physiology
	BSc Microbiology
	BSc Physics
	BSc Plant Science
Prerequisites	BCM 251 and BCM 252 and BCM 261
Contact time	2 lectures per week, 180 minute practical per week
Language of tuition	Double Medium
Academic organisation	Biochemistry
Period of presentation	Semester 2

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