

University of Pretoria Yearbook 2018

Cell structure and function 367 (BCM 367)

Qualification	Undergraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	18.00
Programmes	BSc Biochemistry
	BSc Biotechnology
	BSc Chemistry
	BSc Genetics
	BSc Human Genetics
	BSc Human Physiology
	BSc Microbiology
	BSc Plant Science
Prerequisites	BCM 251 and BCM 252 and BCM 261
Contact time	180 minute practical per week, 2 lectures per week
Language of tuition	Afrikaans and English are used in one class
Department	Biochemistry
Period of presentation	Semester 2

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 cytometry and mircoscopy, mini-research projects where students are introduced and guided through aspects of research methodology, experimental planning as well as techniques associated with cellular assays. Active transport studies in yeast cells.

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