

## University of Pretoria Yearbook 2021

## Molecular basis of disease 368 (BCM 368)

Undergraduate
Faculty of Natural and Agricultural Sciences
18.00
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BSc Biochemistry
BSc Biotechnology
BSc Chemistry
BSc Entomology
BSc Genetics
BSc Human Genetics
BSc Human Physiology
BSc Microbiology
BSc Nutrition
BSc Plant Science
BSc Zoology
BCM 251 and BCM 257 and BCM 261 GS BCM 252 GS.
1 practical/tutorial per week, 2 lectures per week
Module is presented in English
Biochemistry, Genetics and Microbiology
Semester 2

## **Module content**

Molecular mechanisms behind exogenous and endogenous diseases. Foundational knowledge of the immune system, with innate-, adaptive- and auto-immunity (molecular mechanisms of the maintenance and failure of the recognition of foreign in the context of self in the mammalian body) being some of the key concepts. Molecular pathology and immunobiochemistry of exogenous diseases against viral, bacterial and parasitic pathogens with a focus on the human immunodeficiency virus (HIV), tuberculosis (TB) and malaria. Endogenous disease will describe the biochemistry of normal cell cycle proliferation, quiescence, senescence, differentiation and apoptosis, and abnormal events as illustrated by cancer. Tutorials will focus on immunoassays, vaccines, diagnostic tests for diseases and drug discovery towards therapeuticals.



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