



# University of Pretoria Yearbook 2023

## Molecular data for infectious diseases 816 (OHB 816)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Veterinary Science</a>
<b>Module credits</b>	15.00
<b>NQF Level</b>	09
<b>Programmes</b>	<a href="#">MSc (Veterinary Tropical Diseases) Global One Health (Coursework)</a>
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Veterinary Tropical Diseases
<b>Period of presentation</b>	Semester 2

### Module content

MID is a module for molecular biologists on the implementation of molecular techniques, and more specifically the use of molecular data in tropical lowresource settings. In MID, molecular techniques and data are discussed in the context of clinical and epidemiological field studies on infectious diseases.

Pathogen and vector identity, dynamics, and transmission often form an integral part of such studies. These phenomena can be documented using DNA and RNA techniques. Despite rapid advancements in molecular methods, their implementation in low-resource environments often remains cumbersome due to logistic, financial, and human resource constraints. MID focusses on the selection and analysis of appropriate assays and their implementation in a particular research setting.

Participants work in small groups to critically discuss peer-reviewed papers and to develop their own protocol and implementation plan. The focus of the module is to select and validate an appropriate molecular method in the study context, and to implement that method in the given setting for optimal qualitative data acquisition and analysis.

### Regulations and rules

The regulations and rules for the degrees published here are subject to change and may be amended after the publication of this information.

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations



applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations.

#### **University of Pretoria Programme Qualification Mix (PQM) verification project**

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.