

# University of Pretoria Yearbook 2016

## Genome evolution and phylogenetics 354 (GTS 354)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Natural and Agricultural Sciences</a>
<b>Module credits</b>	18.00
<b>Programmes</b>	<a href="#">BSc Information Technology Information and Knowledge Systems</a>
	<a href="#">BSc Biochemistry</a>
	<a href="#">BSc Biotechnology</a>
	<a href="#">BSc Genetics</a>
	<a href="#">BSc Human Genetics</a>
	<a href="#">BSc Human Physiology</a>
	<a href="#">BSc Human Physiology, Genetics and Psychology</a>
	<a href="#">BSc Medical Sciences</a>
	<a href="#">BSc Microbiology</a>
	<a href="#">BSc Plant Science</a>
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology
<b>Prerequisites</b>	GTS 251 GS and GTS 261 GS
<b>Contact time</b>	1 practical per week, 2 lectures per week
<b>Language of tuition</b>	English
<b>Academic organisation</b>	Genetics
<b>Period of presentation</b>	Semester 1

### Module content

Mechanisms involved in the evolutions of genomes. Comparison of the molecular organisation of viral, archaea, eubacterial and eukaryotic genomes. Genome project design, DNA sequencing methods and annotation. Molecular evolution. Phylogenetic inference methods. Applications of phylogenetics and contemporary genome research.

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