



University of Pretoria Yearbook 2017

Genome evolution and phylogenetics 354 (GTS 354)

Qualification Undergraduate

Faculty Faculty of Natural and Agricultural Sciences

Module credits 18.00

Programmes BSc Information and Knowledge Systems

BSc Biochemistry

BSc Biotechnology

BSc Entomology

BSc Genetics

BSc Human Genetics

BSc Human Physiology

BSc Human Physiology, Genetics and Psychology

BSc Medical Sciences

BSc Microbiology

BSc Plant Science

BSc Zoology

Service modules Faculty of Engineering, Built Environment and Information Technology

Prerequisites GTS 251 GS and GTS 261 GS

Contact time 1 practical per week, 2 lectures per week

Language of tuition Module is presented in English

Academic organisation Genetics

Period of presentation 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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