

University of Pretoria Yearbook 2022

Applications in plant biotechnology 746 (BOT 746)

Qualification	Postgraduate
Faculty	Faculty of Natural and Agricultural Sciences
Module credits	10.00
NQF Level	08
Programmes	BScHons <i>Biotechnology</i> BScHons <i>Medicinal Plant Science</i> BScHons <i>Plant Science</i>
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 practical per week
Language of tuition	Module is presented in English
Department	Department of Plant and Soil Sciences
Period of presentation	Semester 2

Module content

Plant tissue culture. Plant gene transfer technologies (Agrobacterium-based, biolistics and other). Design of plant gene transfer constructs, including synthetic biology. New plant breeding technologies, including plant gene editing. Applications of genetically modified (GM) and gene edited crops and their impact on modern agriculture. Biosafety evaluation and regulation of GM and new plant breeding technologies.

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