

Plant Tissue Culture

Module Information

2022.01, Approved

Summary Information

Module Code	6504YAUBIO
Formal Module Title	Plant Tissue Culture
Owning School	Pharmacy & Biomolecular Sciences
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery

LJMU Partner Taught

Partner Teaching Institution

Institution Name

Yunnan Agricultural University

Learning Methods

Learning Method Type	Hours
Lecture	24
Practical	16

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	Plant tissue culture is one of the modern biotechnology courses with high technical content and good application prospects. Through the lectures and experiments of this module, students can realise the position and role of tissue culture technology in the development of modern biotechnology, master the application of this technology in practice, and cultivate innovative and applied talents.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Discuss the history of tissue culture, and the concept, type and theoretical basis of plant tissue culture.
MLO2	2	Demonstrate basic operation techniques of tissue culture, and good aseptic technique.
MLO3	3	Recognise the status of organisational training in professional learning, build up the confidence to learn and master the application of organisational training in practice.

Module Content

Outline Syllabus	The module provides an overview of plant tissue culture, composition and preparation of culture media, disinfection and inoculation of explants, basic conditions of plant tissue culture, rapid propagation of plants in vitro and cultivation of virus-free seedlings.
Module Overview	
Additional Information	This module is for students to develop an understanding of the biotechnology developments, principles and application in plant tissue culture. Students will also develop basic practical skills in plant tissue culture.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Exam	Examination	70	2	MLO1, MLO2, MLO3
Practice	Practical experiment	20	0	MLO1, MLO2, MLO3
Test	Test	10	0	MLO1, MLO2, MLO3

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Katie Evans	Yes	N/A

Partner Module Team

Contact Name Applies to all offerings Of	Offerings
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