



Laboratory of Biotechnology

The Biotechnology Laboratory supports teaching and research in molecular biology, plant tissue culture, microalgae engineering and genetic engineering. Equipped with modern instruments, it provides facilities for developing technical competencies, applying scientific methods, and fostering innovations in biotechnology.



Lecturers



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Main Laboratory Equipment



Atomic Absorption
Spectrophotometer (AAS)
Photo : Faculty of Biology



Polymerase Chain
Reaction (PCR)
Photo : Faculty of Biology



Spectrophotometer
UV Vis
Photo : Faculty of Biology



Rotary Evaporator
Photo : Eka M.S.



Freeze Dryer
Photo : Eka M.S.



Refrigerated
centrifuge
Photo : www.hettweb.com



Inverted Microscope
Photo : www.drawell.com.cn



Microcentrifuge
Photo : www.biologixlab.com

- Others:
- Mini Centrifuge
 - Vortex
 - Bio-Safety Cabinet
 - Autoclaf



Source : Canva (Stock Image)



Scope of Expertise

- ✓ Plant Tissue Culture/Plant Biotechnology
- ✓ Industrial and Environmental Biotechnology
- ✓ Agricultural Biotechnology
- ✓ Systems and Synthetic Biology
- ✓ Medical Biotechnology
- ✓ Marine Biotechnology



Research Topic

- ✓ Molecular genetic principles of plant development
- ✓ Plant biotechnology (including in vitro plant propagation and genetical engineering)
- ✓ Orchidology
- ✓ Algae culture and engineering for biofuel production
- ✓ Biomaterials from algae (diatoms)
- ✓ Production of active compounds from algae
- ✓ Plant tissue culture
- ✓ Plant epigenetic



courses offered for doctoral programme

- ✓ Capita Selecta
- ✓ Algae Engineering
- ✓ Plant Molecular Biology



Public Service

- ✓ Orchid Seed Culture
- ✓ Basic Microalgae Culture Training
- ✓ Culture Medium
- ✓ Techniques and Synthetic Biology
- ✓ Advanced Microalgae Culture Training
- ✓ Training on Plant In Vitro Culture
- ✓ Competency Test for Plant Tissue Culture Scheme – Level II
- ✓ Competency Certification in Orchid Cultivation