



UNIVERSITAS GADJAH MADA
FAKULTAS BIOLOGI

Laboratory of Plant Physiology

The Plant Physiology Laboratory supports teaching and research on the functional processes of plants. Equipped with modern instruments, it provides facilities for developing technical competencies, applying scientific methods, and fostering innovations in plant physiology.



Lecturers



Prof. Dr. Diah Rachmawati, S.Si., M.Si.
Plant Physiology (Nutrient Science)
Email: drachmawati@ugm.ac.id



Prof. Dr. Kumala Dewi, M.Sc.St.
Plant Physiology (Phytohormon)
Email: kumala.dewi@ugm.ac.id



Dr. Dwi Umi Siswanti, M.Sc.
Plant Development Physiology
Email: dwiumi@ugm.ac.id



Sidiq Permana Putra, S.Si., M.Sc.
Plant Ecophysiology
Email: sidiqpermanaputra@ugm.ac.id



Dr. Siti Nurbaiti, S.Si.
Plant Reproductive Physiology
Email: siti.nurbaiti@ugm.ac.id



Main Laboratory Equipment



Spectrophotometer UV-Vis



Nano Drop



Waterbath



Chlorophyll Meter



Fume Hood



Microscope



Oven

Others:

- Calorimeter
- Optilab
- Vortex
- Analytical Balance
- Centrifuge



Scope of Expertise

- ✓ Plant Physiology (Nutrient Science)
- ✓ Plant Physiology (Phytohormon)
- ✓ Plant Development Physiology
- ✓ Plant Ecophysiology
- ✓ Plant Reproductive Physiology



Research Topic

- ✓ Role of plant hormones on plant growth and development
- ✓ Plant Ecophysiology
- ✓ Integrated farming
- ✓ Physiological and anatomical response of plant to chopper (pollutant)
- ✓ Plant responds to biofertilizer
- ✓ Plant responds to sludge biogas



courses offered for doctoral programme

- ✓ Capita Selecta
- ✓ Plant Ecophysiology
- ✓ Plant Nutrition
- ✓ Plant Hormone Biosynthesis
- ✓ Plant Physiology
- ✓ Plant Development Physiology



Public Service

- ✓ Training on Basic Plant Physiology Analysis and Its Application in Research
- ✓ Chlorophyll Analysis
- ✓ Plant Physiology Training 'Biology and Climate Change Challenges: How Plants Respond to Environmental Stress'