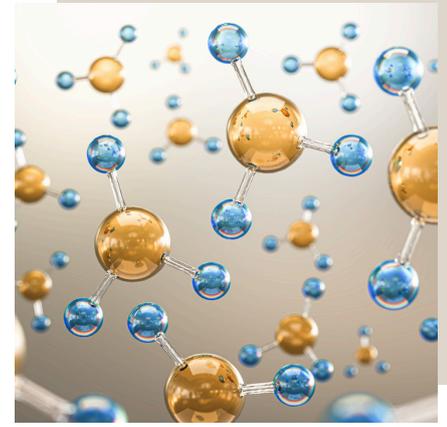




Laboratory of Biochemistry

The Laboratory of Biochemistry supports teaching and research in biomolecular sciences. Equipped with modern instruments, it provides facilities for developing technical competencies, applying scientific methods, and fostering innovations in biochemistry.



Source : Canva (Stock Image)



Lecturers



Prof. Dra. Rarastoeti Pratiwi, M.Sc.,
Ph.D.
Biochemistry
Email: rarastp@ugm.ac.id



Prof. Dr. Yekti Asih Purwestri, M.Si.
Molecular Biochemistry
Email: yekti@ugm.ac.id



Dr. Tri Rini Nuringtyas, M.Sc.
"Metabolic Biochemistry"
Email: tririni@ugm.ac.id



Woro Anindito Sri Tunjung, S.Si.,
M.Sc., Ph.D.
Medical Biochemistry
Email: wanindito@ugm.ac.id



Lisna Hidayati, S.Si., M.Biotech.
Biochemical Informatics
Email: lisna.hidayati@ugm.ac.id



Tyas Ikhsan Hikmawan, S.Si., M.S.,
Ph.D.
Environmental Biochemistry
Email: tyas.ikhsan@ugm.ac.id



Scope

- ✓ Biochemistry
- ✓ Molecular Biochemistry
- ✓ Metabolic Biochemistry
- ✓ Medical Biochemistry
- ✓ Biochemical Informatics
- ✓ Environmental Biochemistry



Research Topic

- ✓ Nutraceutical biochemistry
- ✓ Florigen signaling
- ✓ Plant biochemical adaptation in biotic and abiotic stress
- ✓ Endophytic bacteria
- ✓ Metabolomics
- ✓ Natural products as biocontrol (antimicrobial, biopesticides, bioherbicides) and drug discovery
- ✓ Plant resistance mechanisms
- ✓ Natural product
- ✓ Traditional medicine
- ✓ Cell and molecular biology
- ✓ Drug Design
- ✓ Natural Pigment
- ✓ Protein Modelling
- ✓ Enzymatic Bioremediation



Main Laboratory Equipment



Gas Chromatography–Mass Spectrometry (GCMS)
Photo : Faculty of Biology



Polymerase Chain Reaction (PCR)
Photo : Faculty of Biology



Vacuum Concentrators
Photo : Personal Documentation



RT-PCR
Photo : Abhisa Y.Y



Spectrophotometer UV Vis



Refrigerated Centrifuge



Incubator Shaker



Orbital Shaker



Ultrasonic cleaner



Centrifuge

Others:

- Soxhlet Extractor
- Rotary Evaporator

Photo : Personal Documentation



Public Service

- ✓ Soxhlet Analysis
- ✓ GC-MS Analysis
- ✓ Laboratory Equipment Service



courses offered for doctoral programme

- ✓ Analytical Biochemistry
- ✓ Biochemical Signaling Systems
- ✓ Nutrition and Metabolism