

BIOTECHNOLOGY IN INDONESIA

Human Practice
ITB_INDONESIA



Bandung Institute of Technology

Bioscience and Biotechnology Research Center
School of Life Science and Technology
School of Pharmacy

- Production of recombinant protein
- Development of vaccine and diagnostic kit
- Development of yeast and mushroom cultivation
- Mushroom cultivation

Jalan Ganesha 10, Bandung 40132

Website : <http://www.itb.ac.id/>



Gadjah Mada University

Biotechnology, Graduate School
Medical Biotechnology, Biomedical Engineering

- Molecular disease study and early detection system
- Enzyme production and engineering
- Development of transgenic plant
- Development of recombinant vaccine
- Development of antibody production

Jalan Teknika Utara, Pogung, Sleman, Yogyakarta 55281

Website : <http://www.pasca.ugm.ac.id/>

Al Azhar Indonesia University



Biology (Biotechnology) Faculty of Science and Technology

- Ecology identification for groundwater conservation
- *Avian* influenza infection serology test
- Development of Hepatitis B Vaccine, microalga cultivation for biodiesel production
- Bioinformatic analysis and enzyme exploration

Komplek Masjid Agung Al Azhar, Jakarta 12110

Website : <http://fst.uai.ac.id/biotek/>



Duta Wacana Christian University

Faculty of Biotechnology

- Plant tissue culture
- Fermentation technology
- Water and environment conservation

Jalan Dr. Wahidin Sudiro Husodo 5-25, Yogyakarta 55224

Website : <http://www.ukdw.ac.id/id/page/view/18-fakultas-bioteknologi>



University of Brawijaya

Laboratory of Central Life Science

- Immunochemical method development for an early detection of *S. thypi* adhesins
- Characterization of shrimp protein infected by *White Spot Syndrome* virus
- Development of immunostimulant from plant
- *Mangrove* water bacterium characterization

Jalan Veteran, Malang 65145
Website : <http://lsih.ub.ac.id/>

University of Surabaya

Biology (Biotechnology) Faculty of Biotechnology
Food Biotechnology, Environment, Health and Forensic, Plant

- Development of antigen therapy
- Development of biosensor for pathogenic bacteria detection
- Methanogenic *Archaea* genus and species identification
- Development of biogas fermentation product using DNA *fingerprint*

Jalan Ngagel Jaya Selatan 169, Surabaya 60284

Website : <http://profil.ubaya.ac.id/program-s1-biologi-bioteknologi.html>



Muhammadiyah University of Malang

Center of Biotechnology Development

- Plant tissue culture
- Development of agricultural biotechnology (breeding of edible mushrooms), fertilization product (azzola compost), utilization of farm waste)

Jalan Bandung 1, Malang

Website : <http://bioteknologi.umm.ac.id/>



University of Pelita Harapan

Biotechnology, Faculty of Science and Technology

- Cell and Tissue Culture
- Development of Fermentation Technology

Lippo Village, Tangerang

Website : <http://biotech.fast.uph.edu/id/akademis/program-sarjana.html>



Bogor Agricultural University

Research Center of Natural Resources and Biotechnology

- Agricultural biotechnology (genetically improve plant, animal, and microbe, molecular cell and biology utilization to enhance production)
- Bioprocess engineering to produce new materials (bioplastic, biosurfactant, biosellulase, biozyme, biopesticide, biofertilizer)

Gedung PAU, Jalan Kamper, Dramaga

Website : <http://kspi.ipb.ac.id/index.php/en/research-center/ppshb>



Sebelas Maret University

Research Center and Development of Biotechnology and Biodiversity

- Cloning of gene encoding HCV structural protein
- HIV and HCV molecular analysis
- Epidemiological database presentation of HIV, HBV, HCV, HDV, HTLV 1/2, and TTV in Central Java
- Orchid cultivation (*in vitro*)

Jalan Ir. Sutami 36A, Surakarta
Website : <http://p3bb.lppm.uns.ac.id/>



University of Jember

Center for Development of Advanced Sciences and Technology

- Plant biotechnology (identification of plant productivity genes and microorganism pathogenicity genes, development of genetic transformation technology, genetic modification of virulence factor, molecular identification, use, and control of microorganisms)

Jalan Kalimantan 37, Jember 68121

Website : <http://cdast.unej.ac.id/divisi/biologi-molekular-dan-biologi-teknologi/>



Sriwijaya University

Biology, Faculty of Mathematics and Natural Science

- Mutagenesis for superior strain improvement
- Optimization of enzyme production
- Inheritance study of plant, animal, and microbes

Jalan Palembang-Prabumulih km 32, Indralaya

Website : <http://biologi.mipa.unsri.ac.id/>



Hasanuddin University

Agricultural Technology, Faculty of Agriculture

- Development of traditional fermentation products
- Development of dissolved starch products, gum xanthan, dextrin, dan cyclodextrin

Jalan Perintis Kemerdekaan km 10, Makassar 90245
Website : <http://www.unhas.ac.id/tekpert/index.php>



Udayana University

Biotechnology and Genetic Engineering Research Group

- Isolation and identification of plant pathogenic bacteria
- Development of plant disease detection system based on biotechnology
- Production of transgenic plant resistant to CVPD disease

Bukit Jimbaran, Badung, Bali 80361

Website : <http://penelitian.unud.ac.id/ind/grup-riset-2/bioteknologi-dan-rekayasa-genetik/>



- Plant tissue culture
- Forestry genetics
- Biotechnology application for forest tree breeding

Jalan Kuaro, Samarinda 75119
Website : <http://fahatan.unmul.ac.id/>



University of Mataram

Microbiology and Biotechnology Research Group

- Genetic variation of local peanut
- Gene analysis of green bean and rice bean hybrid
- Development of pathogenic fungi in water hyacinth as weeds controlling agent

Jalan Pendidikan 37, Mataram
Website : <http://lemlit.unram.ac.id/>



LIPI (Lembaga Ilmu Pengetahuan Indonesia)

Center for Biotechnology Research and Development

- Recombinant protein production (vaccine, drug)
- Protein engineering for diagnostic purpose
- Plant genetic engineering (metabolic engineering of plant biosynthesis pathway)
- Plant tissue culture

Kompleks CSC-LIPI, Jalan Raya Bogor km 46, Cibinong, Bogor 16911

Website : <http://www.biotek.lipi.go.id/>



BB Biogen

Indonesian Center for Agricultural Biotechnology & Genetic Resources

- Genomic analysis of agricultural commodities
- Genetic engineering for superior seed (transgenic plant)
- Plant tissue culture

Jalan Tentara Pelajar 3A, Bogor Barat 16111

Website : <http://biogen.litbang.pertanian.go.id/>

- Plant tissue culture
- Technology engineering of recombinant protein as an additive weft (growth hormone)
- Pharmaceutical active compound production using microbe
- Microbe utilization to enhance soil quality (bioorganic fertilizer)

Jalan M.H. Thamrin 8 Jakarta 10340, Kawasan Puspiptek, Tangerang Selatan 15314
Website : <http://www.bppt.go.id/index.php/profil/organisasi/deputi-tab>



Puslitbang Peternakan

Center for Research and Development of Livestock

- Livestock genetic improvement
- Characterization and manipulation of bacteria
- Development of veterinary vaccine

Jalan Raya Pajajaran KavE 59, Bogor
Website : <http://peternakan.litbang.pertanian.go.id/>



BBP4B

Indonesian Center for Marine and Fishery Product Development and Biotechnology

- Marine and fishery macro and microorganism exploration and development (waste, enzyme or protein, metabolites for food, cosmetics, biomedical, and nutraceutical)

Jalan K.S. Tubun, Petamburan VI, Slipi, Jakarta Pusat 10260

Website : <http://www.bbp4b.litbang.kkp.go.id/laboratorium-bioteknologi/>

- Development of stem cell technology for regenerative and cellular therapy
- Development of cancer biomarker

Jalan Jenderal Ahmad Yani 2, Pulo Mas, Jakarta

Website : <http://www.sci-indonesia.org/>

Innogene Kalbiotech



Kalbe Farma

- Development of monoclonal antibody for targeted cancer therapy

Jalan Perintis Kemerdekaan 1, Jakarta Timur 13210

Website : <http://www.innogene-kalbiotech.com/>



PPBBI

Research Center for Biotechnology and Bioindustry of Indonesia

- Plant tissue culture
- Plant somatic embryogenesis

Jalan Taman Kencana 1, Bogor 16151

Website : <http://iribb.org/>

- Development of virus vaccine, bacteria vaccine, and combination, also antisera and diagnostic kit

Jalan Pasteur 28, Bandung 40161
Website : <http://www.biofarma.co.id/>

- Development of malaria vaccine
- Development and production of Hepatitis B recombinant vaccine

Jalan P. Diponegoro 69, Kompleks RS Cipto Mangunkusumo, Jakarta 10430

Website : <http://www.eijkman.go.id/>



Andalas University

Biotechnology (Master Degree)
Medical Biotechnology, Food, and Agrotechnology

- Nanobiotechnology
- Biotechnology application for livestock waste management
- Genetic engineering and proteomic profiling for the method development to overcome disease caused by virus and fungus infection on plant

Limau Manis, Padang

Website : <http://pasca.unand.ac.id/id/program-magister/program-magister-multidisiplin/bioteknologi/>



Universitas of Indonesia

Medical Faculty

- Development of carbohydrate-based product/ new product
- Development of vaccine and diagnostic kit
- Stem cell

Kampus Baru UI Depok, Depok 16424

Website : <http://www.fk.ui.ac.id/>



Charoen Pokphand Indonesia

PT Charoen Pokphand Indonesia Tbk

- Enzyme production and development for poultry feed from fungus and recombinant protein

Jalan Raya Serang KM. 30, Serang, Banten 15610

Website : <https://cp.co.id/>

- Vaccine production and development for livestock (*Avian Influenza, Avian Encephalomyelitis, Fowl Pox*) using SPF (Specific Pathogen-free) egg

Jalan Babakan Ciparay, Bandung, Jawa Barat 40223

Website : <http://www.medionindonesia.com/>

