SF ITB

Medicinal Chemistry

Head of Department

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- **Graduated from:** Keio University, Japan.
- **Research field:** Medicinal & biophysical chemistry; molecular modeling & CADD in drug discovery.

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- **Graduated from:** Institut Teknologi Bandung, Indonesia.
- **Research field:** Medicinal chemistry and pharmaceutical analysis.

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Pharmaceutical Analysis

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- **Research field:** Medicinal chemistry and pharmaceutical analysis.

Prof. Dr. apt. Ilma Nugrahani
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- **Graduated from:** Institut Teknologi Bandung, Indonesia.
- **Research field:** Solid pharmaceutical development and analysis; pharmaceutical analysis.

apt. Benny Permana, Ph.D.
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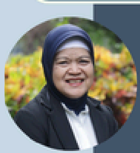
- **Graduated from:** Chiba University, Japan.
- **Research field:** Solid carbon nanotube design and analysis; analytical method development and validation.

Microbiology and Bioprocess



Prof. apt. Marlia Singgih W., Ph.D.
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- **Graduated from:** University of Strathclyde, United Kingdom.
- **Research field:** Microbiology and microbiology analysis method development.

apt. Elin Julianti, Ph.D.
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- **Graduated from:** Seoul National University, South Korea.
- **Research field:** Microbiology analysis and bioactive compound from marine microbes.

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- **Graduated from:** Institut Teknologi Bandung, Indonesia.
- **Research field:** Microbiology analysis; bioactive compound from terrestrial and marine actinomycetes.

Diagnostic Biochemistry

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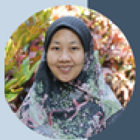
- **Research field:** Biochemistry



apt. Yangie Dwi Marga Pinanga, Ph.D.
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- **Graduated from:** Seoul National University, South Korea.
- **Research field:** Pharmaceutical bioscience, pharmaceutical biochemistry, and clinical diagnostic.

Educational and Scientific Laboratories

Laboratory of Basic Pharmaceutical Analysis & Drug Synthesis
Laboratory of Pharmaceutical Chemistry
Laboratory of Physicochemistry (Lab. of Analytical Instrument)
Laboratory of High Performance Computation & Medicinal Chemistry
Laboratory of Clinical Biochemistry & Diagnostic
Laboratory of Microbiology

Contact Us

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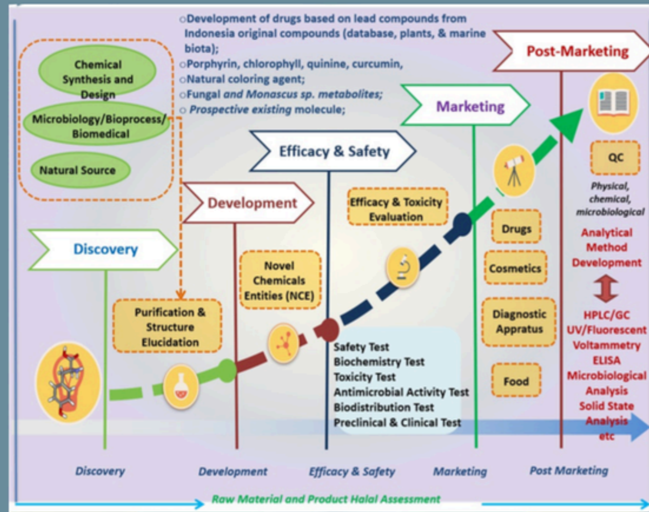
Department of Pharmacochemistry
School of Pharmacy - Institut Teknologi Bandung

Pharmacochemistry: At a Glance

Pharmacochemistry is a branch of Pharmaceutical Sciences concerning about the chemistry of drugs. It includes the analysis (chemical, instrumental, and microbiological) of drugs, metabolites, and endogenous compounds in the human body, as well as the design and synthesis of chemical compounds used as medicines, foods, and cosmetics.

Pharmacochemistry Research Roadmap



Research Topics (2019-2024):

- In silico safety assessment of food additives.
- Preparation of chemical standard candidate.
- Development and safety studies of Sildenavil derivative compounds.
- Computer-aided drug design (CADD).
- Development of curcumin derivatives as anticancer.
- Preparation, analysis, and characterization of enzyme activity.
- Method development and validation of drug/food/cosmetics.
- Development of porphyrin as anticancer and radiopharmaceutical ligands.
- Computational toxicology.
- Content determination and formation kinetics of drug modification by microwave, FTIR, and PXRD.
- Validity and reliability assessment of commercial digital test kits for self-monitoring of clinical health.
- Secondary metabolites of terrestrial and marine eukaryotic microbes as new drug candidates.
- In vitro assay of drug compound candidates with cell lines.