

Faculty

ABIGAIL JOY R. ANGELIA
Cell and Molecular Biology

RIAFLOR M. ALCABEDOS
Animal Developmental Genetics

AIMEE G. CAGALAWAN
Quantitative Genetics

JOAN CHRISTINE A. DERIQUITO
Cytogenetics

MARIA GENALEEN Q. DIAZ
Molecular/ Biochemical Genetics

EMMANUEL T. GALANG
Computational Biology/Bioinformatics

DIANA ROSE R. GONZALES
Evolutionary Genetics

JICKERSON P. LADO
Molecular Cell Biology, Omics

APRILL P. MANALANG
Computational Biology/Bioinformatics

MA. CARMINA C. MANUEL
Population Genetics

CECILIA DIANA C. PALAO
Cytogenetics

EVANGELINE D. PASCUAL
Epigenetics

MARIA CECILIA S. REAMILLO
Molecular/Biochemical Genetics

JAE JOSEPH RUSSELL B. RODRIGUEZ
Evolutionary Genetics

JOSEPH CARMELO K. SAN PASCUAL
Cell and Molecular Biology

ANNA MARIEL U. TOLEDO
Cell and Molecular Biology

NEILYN O. VILLA
Molecular/ Biochemical Genetics

Professor Emeritus:

RITA P. LAUDE, PhD
Population Genetics

Contact Us



GENETICS AND MOLECULAR BIOLOGY DIVISION

Rm. C-307, 3rd Floor, R.B. Espino Wing,
L.B. Uichanco Hall,
University of the Philippines Los Baños,
College, Laguna
4031 PHILIPPINES

Phone: +6349 536 3368

Email: ibsdouplb@up.edu.ph

Website: <https://ibs.cas.uplb.edu.ph/>



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University of the Philippines Los Baños
Institute of Biological Sciences

BS BIOLOGY MAJOR IN
**CELL AND
MOLECULAR
BIOLOGY**

GENETICS AND MOLECULAR BIOLOGY DIVISION, IBS, CAS





About Cell & Molecular Biology Major

Cell & Molecular Biology is a major field that aims to produce graduates with strong academic background on cell structure and function as well as molecular biology concepts and techniques. It focuses on how genes, gene products and other biomolecules interact in the organization and perpetuation of life.

Graduates with major in Cell & Molecular Biology will have a various career choices such as teaching, research positions in the government and private sector, technical supporters in institutions involved in biodiversity studies and conservation, molecular phylogeny, medical and forensic fields, etc.

Courses Offered

All Cell and Molecular Biology major students are required to take Practicum, Thesis, and the following courses:

BIO 125. Principles of Cell and Molecular Biology Techniques

BIO 130a. Intermediate Genetics 1

BIO 138. Molecular Genetics

VMCB 124. Fundamentals of Immunology
A choice among

BOT 20. Fundamentals of Plant Physiology

MCB 120. Microbial Physiology

ZOO 120. Animal Physiology

Cell and Molecular Biology majors must also take 9-15 units of any of the following major courses:

BIO 130b. Intermediate Genetics II

BIO 131. Cytogenetics

BIO 134. Introduction to Genomics and Bioinformatics

BIO/ENT 137. Insect Genetics

BIO 139. Human Genetics

BIO 180. Biological Microtechniques

BOT 20. Fundamentals of Plant Physiology

BOT 101. Phycology

BOT 110. Morphology and Anatomy of Plants

BOT 120. Advanced Plant Physiology

BOT/HORT 132. Plant Growth

CHEM 162. Plant Biochemistry

ENT 101. General Entomology

ENT 120. Insect Physiology

HORT 133. Plant Tissue Culture

MCB 101. Microbial Identification Techniques

MCB 102. General Virology

MCB 103. Introductory Medical Microbiology

MCB 120. Microbial Physiology

MCB 130. Microbial Genetics

PPTH 104. General Mycology

ZOO 113. Comparative Vertebrate Anatomy

ZOO 115. Animal Histology

ZOO 117. Developmental Zoology

ZOO 120. Animal Physiology

Cell & Molecular Biology Major Application

- Students must have earned at least 70 units of coursework
- Attend the major application orientation organized by the IBS Registration Committee at the time of application.
- Submit copy of grades with application form indicating preferred adviser, to be evaluated by the IBS Registration Committee.
- Meet with assigned adviser for the Plan of Study (POS).

