

Pharmacology Program

Compulsory courses		Credit(s)
SCPM 511	Molecular and Cellular Science in Pharmacology	2
SCPM 512	System Biological Basis for Pharmacology	2
SCPM 501	Experimental Methods in Pharmacology	1
SCPM 502	Principles of Drug Action	2
SCPM 521	Systemic Pharmacology I	3
SCPM 522	Systemic Pharmacology II	2
SCPM 611	Advanced Pharmacology	3
SCPM 615	Reading and Writing of Pharmacological Research Literature	1
SCPM 681	Seminar in Pharmacology	2
SCPM 612	Advanced Research and Innovation in Pharmacology	3*
SCPM 616	Analysis and Writing of Pharmacological Research Literature	1*
SCPM 682	Doctoral Seminar in Pharmacology	2*
Elective courses		
SCID 500	Cell and Molecular Biology	3
SCID 502	Cell Science	2
SCID 503	Systemic Bioscience	3
SCID 507	Microscopic Technique	1
SCID 506	Concepts in Molecular Bioscience	2
SCID 508	Biomolecular and Spectroscopy Techniques	1
SCID 509	Separation Techniques	1
SCID 510	Immunological Methods	1
SCID 511	Gene Technology	1
SCID 512	Receptor Binding and Enzyme Kinetic Assays	1
SCID 513	Animal Cell Culture Techniques	1
SCID 514	Animal Experimentation in Biomedical Research	1
SCID 516	Biostatistics	3
SCID 518	Generic Skills in Science Research	1
SCPM 509	Immunopharmacology	1
SCPM 510	Pharmacogenomics	1
SCPM 601	Clinical Concepts in Pharmacology	2
GRID 603	Biostatistics	3
Thesis		
SCPM 698	M.Sc. Thesis	12
SCPM 898	Ph.D. Dissertation (Plan 1)	48*
SCPM 699	Ph.D. Dissertation (Plan 2.1)	36*
SCPM 799	Ph.D. Dissertation (Plan 2.2)	48*

* Ph.D. program only

For further information please contact:

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GRADUATE PROGRAMS

M.Sc. and Ph.D.

in

Pharmacology



Department of Pharmacology
Faculty of Science
Mahidol University

HISTORY

The department was established in 1968 with a financial boost from the Rockefeller Foundation, United States. The main obligations are to teach Pharmacology to both medical and nursing students as well as to produce graduate students leading to both M.Sc. and Ph.D. degree.

PHARMACOLOGY PROGRAM

Educational Philosophy

The educational philosophy of Pharmacology Program focuses on in-depth knowledge in Pharmacology and related fields. Teaching and learning approaches are based on outcome-based education so as to promote life-long learning. Graduates have expertises in pharmacological knowledge and researches and can be able to create and apply for innovation in an attempt to a better understanding of the development, progression, prevention, and treatment of human diseases/disorders, especially those found commonly in Thailand.

Teaching

At present, there are 12 academic staff members whose academic training were from the United States, the United Kingdom, Japan, Australia and Thailand. There are 2 scientists and 2 administrative officers working together as supporting staff. Regarding the education at undergraduate levels, the program provides teaching for 1st to 4th year medical students in collaboration with other life science departments, 2nd year nursing students, and 3rd year paramedic students. There are 2 graduate programs, for M.Sc. and Ph.D. degrees in Pharmacology.

Academic staff members have long been appointed as experts, committee members, and invited lecturers for governmental institutes, governmental and private universities.

Up to the present time, more than 120 graduates with either M.Sc. or Ph.D. degree have graduated from the programs. The graduates also include those from Asian countries.

Scholarships

Graduate students could apply for

- The 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej Scholarship
- Scholarship for Young Scientists
- Teaching Assistant Scholarship

CAREER PROSPECTS

In the public sectors, Pharmacology graduates are in demand as lecturers in University or as research assistants or consultants in research institutes, governmental departments including Food and Drug Administration (FDA) and the Government Pharmaceutical Organization (GPO), etc.

Commercial sectors that actively recruit graduates from Pharmacology include the pharmaceutical industries and regulatory affairs, etc.

RESEARCH INTERESTS

A wide range of researches covers both basic and applied areas in Pharmacology and also in Toxicology. The major research areas of current interest are:

- Pharmacodynamics
- Pharmacokinetics
- Pharmacogenomics
- Cardiovascular Pharmacology
- Endocrine Pharmacology
- Immunopharmacology
- Neuropharmacology
- Free Radical in Disease and Therapeutics
- Pharmacology of Natural Products
- Research in Thalassemia

ADMISSION REQUIREMENTS

For M.Sc. program, applicants must

- hold a Bachelor's degree in any science discipline or the equivalent in medicine or one of the allied Health Science
- have a GPA of at least 2.5.

For Ph.D. program plan 1.1 (research only), applicants must hold a Master degree in Pharmacology or related fields with the GPA not less than 3.5.

For Ph.D. program plan 2.1, applicants must hold a Master degree in Pharmacology or related fields with the GPA not less than 3.5.

For Ph.D. program plan 2.2, applicants must hold a Bachelor degree or equivalent degree in Science, Nurse, Medical Technology or Public Health with GPA not less than 3.5.

Both M.Sc. and Ph.D. programs, applicants must have a qualified TOEFL or IELTS scores or pass the English Proficiency Examination.