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Doctor of Philosophy Programme in Pharmacology (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา เภสัชวิทยา (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Science

Department of Pharmacology

คณะวิทยาศาสตร์

ภาควิชา เภสัชวิทยา

Expected number of students to be accepted all year round : 10 Students

(Plan 1 : 4 Students, Plan 2 : 6 Students)

Admission Requirements

A candidate must:

1. A candidate in Ph.D. Program plan 1.1 must

Hold a Master degree in pharmacology or related fields or a degree of Doctor of Medicine, Doctor of Dental Surgery, Doctor of Pharmacy, Doctor of Veterinary Medicine or those who study in the last semester of Master Program in Pharmacology and related fields approved by the Program committee, with the GPA not less than 3.50 or equivalent or candidates who have working experience in Pharmacological research and related fields for at least 2 years.

2. A candidate in Ph.D. Program plan 2.1 must

Hold a Master degree in pharmacology or related field or a degree of Doctor of Medicine, Doctor of Dental Surgery, Doctor of Pharmacy, Doctor of Veterinary Medicine with GPA not less than 3.50

3. A candidate in Ph.D. Program plan 2.2 must

Hold a bachelor degree or equivalent or those who study in the last semester of Bachelor degree in science such as Chemistry, Biochemistry, Biology, Biotechnology, Nurse, Medical Technology and Public Health or related biological science with GPA not less than 3.50

4. have a TOEFL score of at least 500, TOEFL computer-based score of 173, TOEFL Internet-based score of 61, or IELTS score of 5 .

Those who do not have any of the test scores specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.

Exemptions from the above conditions may be granted by the Programme Committee under exceptional circumstances.

Curriculum Structure

	Credit
Plan 1.1	
For students holding Master degree, Medical doctor, dentist, pharmacist or veterinarian	
Thesis	48
Plan 2.1	
For students holding Master degree	
Required Courses	6
Elective Courses not less than	6
Thesis	36
Plan 2.2	
For students holding Bachelor degree	
Required Courses	18
Elective Courses not less than	6
Thesis	48

	Credit
Plan 1.1	
For students holding Master degree	
Thesis	
SCPM 898 Dissertation	48(0-192-0)
Plan 2.1	
For students holding Master degree	
Required Courses	
SCPM 612 Advanced Research in Pharmacology	3(3-0-6)
SCPM 614 PhD Research Rotation in Pharmacology	1(0-2-1)
SCPM 682 PhD Seminar in Pharmacology	2(2-0-4)
Elective Courses	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 507 Microscopic Technique	1(0-2-1)
SCID 508 Biomolecular and Spectroscopy Technique	1(0-2-1)
SCID 509 Separation Techniques	1(0-2-1)
SCID 510 Immunological Methods	1(0-2-1)
SCID 511 Gene Technology	1(0-2-1)
SCID 512 Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)

SCID	513	Animal Cell Culture Techniques	1(0-2-1)
SCID	514	Animal Experimentation in Biomedical Research	1(0-2-1)
SCID	516	Biostatistics	3(3-0-6)
SCID	518	Generic Skills in Science Research	1(1-0-2)
SCPM	509	Immunopharmacology	1(1-0-2)
SCPM	510	Pharmacogenomics	1(1-0-2)
SCPM	601	Clinical Concepts in Pharmacology	2(2-0-4)
Thesis			
SCPM	699	Dissertation	36(0-144-0)
Plan 2.2			
For students holding Bachelor degree			
Required Courses			
SCPM	501	Experimental Methods in Pharmacology	1(0-2-1)
SCPM	502	Principles of Drug Action	2(2-0-4)
SCPM	507	Modern Pharmacology	3(3-0-6)
SCPM	508	Special Topics in Pharmacology	2(2-0-4)
SCPM	511	Molecular and Cellular Science in Pharmacology	2(2-0-4)
SCPM	512	System Biological Basis for Pharmacology	2(2-0-4)
SCPM	612	Advanced Research in Pharmacology	3(3-0-6)
SCPM	614	PhD Research Rotation in Pharmacology	1(0-2-1)
SCPM	682	PhD Seminar in Pharmacology	2(2-0-4)
Elective Courses			
SCID	500	Cell and Molecular Biology	3(3-0-6)
SCID	507	Microscopic Technique	1(0-2-1)
SCID	508	Biomolecular and Spectroscopy Techniques	1(0-2-1)
SCID	509	Separation Techniques	1(0-2-1)
SCID	510	Immunological Methods	1(0-2-1)
SCID	511	Gene Technology	1(0-2-1)
SCID	512	Receptor Binding and Enzyme Kinetic Assays	1(0-2-1)
SCID	513	Animal Cell Culture Techniques	1(0-2-1)
SCID	514	Animal Experimentation in Biomedical Research	1(0-2-1)
SCID	516	Biostatistics	3(3-0-6)
SCID	518	Generic Skills in Science Research	1(1-0-2)
SCPM	509	Immunopharmacology	1(1-0-2)
SCPM	510	Pharmacogenomics	1(1-0-2)
SCPM	601	Clinical Concepts in Pharmacology	2(2-0-4)
Thesis			
SCPM	799	Dissertation	48(0-192-0)

* These may change in cases where there are suggestions for the improvement of the curriculum

Proposal / Concept

1. Applicants who have their Bachelor's degree must submit a summary of his/her research project achieved at Bachelor's degree level, and identify the research project he/she is planning to pursue at the PH.D. level.

2. Applications who have their Master's degree must submit his/her Master's degree thesis, and identify the research project he/she is planning to pursue at the PH.D. level.

Additional advantages of the programme

The programme provides the opportunity for students to spend their time teaching classes, and doing important biological research. They will undertake activities to facilitate written communication skills, develop an understanding of the responsible conduct of science, and examine career opportunities.

Advantages:

- A nationally - renowned faculty
- A national financial aid package and teaching assistance
- Ground - breaking research (pharmacogenomics, molecular pharmacology, herbal medicines, neuropharmacology, cardiovascular pharmacology, pharmacokinetics.)
- State - of - the - art research facilities, and
- A first - class educational experience

Details of Scholarships

1. Scholarship of the 60th Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Royal Golden Jubilee Ph.D. Scholarships.
3. Teaching Assistantship (TA).
4. Research Assistantship (RA).
5. Institutional Strengthening Program.
6. Scholarships for International Graduate Students.

Application Process

Application is only available via online application at www.grad.mahidol.ac.th.

Required Documents

Prepare the following required documents to submit via online admission system or post :

- Two (2) recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification (for an applicant with a degree completion) 2 copies
- A letter certifying that an applicant is currently in the last semester prior to graduation (for an applicant seeking for a degree) 2 copies
- A detailed transcript of a degree (for an applicant with a degree completion) 2 copies
- A grade report with course names and grades received from the first to the current semester prior to graduation 2 copies
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies
- A copy of proof of payment.

Submitting documents via online admission system.

- All documents must be in pdf format (maximum size 2 MB)
- Recent photograph must be in jpeg format only (maximum size 2 MB)

Job option after graduation

- Lecturer in academic institutions
- Researcher in the university, government and private sector
- Pharmacological instructor in the government and private sector
- Consultant/expert in pharmacology in the organization of public and private sector

Further information may be obtained from the Director of Graduate Studies, Pharmacology :

1. **Asst. Prof. Dr. Darawan Pinthong** (E-mail : darawan.pin@mahidol.ac.th)

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Department of Pharmacology, Faculty of Science.

Tel. : 0 2201 5512, 0 2201 5642 Fax. : 0 2354 7157

2. **Assoc. Prof. Dr. Porntip Supawilai** (E-mail : porntip.sup@mahidol.ac.th)

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Program Coordinator

Miss Suprapha Sriphrachan (E-mail : suprapha.sri@mahidol.ac.th)

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Department of Pharmacology, Faculty of Science.

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Notes

1. The program of Pharmacology requires students to study the pre - requisite course:
- SCID 500 Cell and Molecular Biology 3 Credits
2. For more education information : www.grad.mahidol.ac.th

**For more information please contact The Student Admission Section.
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th**