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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 : 5 Students

(Plan 1 : 2 Students, Plan 2 : 3 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 final year 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 final year 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. Submit a certificate of English proficiency with minimum admission score:

- IELTS - at least 5 or
- TOEFL INTERNET BASED - at least 61 or
- TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 500

Important Notes:

- English proficiency score must be taken within 2 years up to the admission date.
- Application without submitting a valid English certificate will NOT be considered.
- MU English Competence Standards: www.grad.mahidol.ac.th
- MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies.
Tel. 0-2441-4125 ext. 221-222

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

Written Examination (Applicants must attend the examination date accurately to your admission round)

Subjects for examination	Time (Morning session)
1. Basic Science for Pharmacology	9.00 - 10.00 a.m..
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

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 616 Analysis and Writing of Pharmacological Research Literature	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)
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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	616	Analysis and Writing of Pharmacological Research Literature	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)

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 provide a solid understanding of pharmacology and in-depth research experience in a specific area of pharmacology in order to develop individuals capable of independent research and to pursue careers as independent scientists and pharmacologists in industry, government or academia

Advantages:

- A nationally - renowned faculty
- A national financial aid package and teaching assistance
- Ground - breaking research (pharmacogenomics, molecular pharmacology, herbal medicines, neuropharmacology, endocrine 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. Institutional Strengthening Program.
5. Scholarships for International Graduate Students.

Application Process

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

Additional information for applicants

The program of pharmacology requires student to study the pre - requisite courses.

Required Documents

Applicants must upload all documents via online admission system. All documents must be in PDF format (maximum size 2 MB). Photograph must be in JPEG format.

- 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)
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree)
- A detailed transcript of a degree (for an applicant with a degree completion)
- A grade report with course names and grades received from the first to the current semester prior to graduation
- A copy of identification card
- A copy of house registration certification
- A copy of Certificate of English proficiency : IELTS / TOEFL INTERNET BASED / TOEFL ITP
- A copy of proof of payment.

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. **Assoc. Prof. Dr. Darawan Pinthong** (E-mail : darawan.pin@mahidol.ac.th)
Room Pr508 , Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.
Tel. : 2201 5642 Fax. : 0 2354 7157
2. **Asst. Prof. Dr.Nattinee Jantaratnotai** (E-mail : nattinee.jan @mahidol.ac.th)
Room Pr518, Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.
Tel. : 0 2201 5646 Fax. : 0 2354 7157

Program Coordinator

Asst. Prof. Dr. Nattinee Jantaratnotai (E-mail : nattinee.jan @mahidol.ac.th)
Room Pr518, Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.
Tel. : 0 2201 5646 Fax. : 0 2354 7157

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