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**Master of Science Programme in Pharmacology (International Programme)**

หลักสูตร วิทยาศาสตร์มหาบัณฑิต

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**

**Admission Requirements**

**A candidate must:**

1. hold a Bachelor's degree in any science discipline (e.g. biology, pharmacy, chemistry, veterinary) or the equivalent in medicine or one of the allied health sciences;
2. have a grade point average of at least 2.50
3. have a TOEFL score of at least 480, TOEFL computer-based score of 157, TOEFL Internet-based score of 54, or IELTS score of 4.5 or pass the English Proficiency Examination arranged by the Faculty of Graduate Studies.

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.

4. In case your qualification does not match to the admission criteria, candidates must prior attach A "Requesting Form for Examination" approved by the program director. The form must be submitted before making the application. Kindly download here:

[http://www.grad.mahidol.ac.th/grad/admission/form\\_th.php](http://www.grad.mahidol.ac.th/grad/admission/form_th.php)

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.)

<b><u>First Round</u></b> <b>January 17, 2015</b>		<b><u>Second Round</u></b> <b>May 16, 2015</b>	
<b>Subjects for examination</b>	<b>Time</b>	<b>Subjects for examination</b>	<b>Time</b>
1. English	8.30 - 11.30 a.m.	1. English	8.30 - 11.30 a.m.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.
3. General Science	1.30 - 2.30 p.m.	3. General Science	1.30 - 2.30 p.m.
<b>Examination Place</b> Mahidol University , Salaya , Nakhonpathom more details : <a href="http://www.grad.mahidol.ac.th">www.grad.mahidol.ac.th</a> or Announcement at Faculty of Graduate Studies branches.			

## Curriculum Structure

	Credit
Required Courses	18
Elective Courses not less than	6
Thesis	12

Required Courses	Credit
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 Cell Science in Pharmacology	2(2-0-4)
SCPM 512 System Biological Basis for Pharmacology	2(2-0-4)
SCPM 611 Advanced Pharmacology	3(3-0-6)
SCPM 613 Research Rotation in Pharmacology	1(0-2-1)
SCPM 681 Seminar in Pharmacology	2(2-0-4)
<b>Elective Courses</b>	
SCID 500 Cell and Molecular Biology	3(3-0-6)
SCID 502 Cell Science	2(2-0-4)
SCID 503 Systemic Bioscience	3(3-0-6)
SCID 506 Concept of Molecular Biosciences	2(2-0-4)
SCID 507 Microscopic Techniques	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)
<b>Thesis</b>			
SCPM	698	Thesis	12(0-48-0)
<b>* These may change in cases where there are suggestions for the improvement of the curriculum</b>			

### **Proposal / Concept Paper**

Should be submitted research proposal (in English) at least 200-500 words.

### **Additional advantages of the programme**

1. Research activities of Pharmacology programme cover a wide range of research interests, the new frontiers in modern pharmacological sciences, and both basic and applied pharmacology.
2. The Pharmacology programme produces scientists who possess a strong knowledge of pharmacology and who are ready to pursue in their career opportunities in academia, government or industry, or pursue their studies in higher degree programmes abroad.
3. Students will have opportunities to improve their English, scientific communication skills, both by writing research papers and by presenting their research data in national and international FORUMS.
4. There are many elective courses offered by the Pharmacology department.
5. Students who are selected to study in the programme are eligible for financial support in the form of assistantships (research or teaching assistant) and other kinds of scholarship.

### **Details of Scholarships**

1. Scholarship of the 60<sup>th</sup> Year Supreme Reign of His Majesty King Bhumibol Adulyadej.
2. Teaching Assistantships (TA).
3. Scholarship for International Graduate Students.
4. Institutional Strengthening Program.

### **Application Process**

Application is only available via online application at [www.grad.mahidol.ac.th](http://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 final year 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 Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: [http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553\\_th.php](http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php) 2 copies  
Those who early submit a valid English score prior to the examination will be exempt from English test on the examination date.
- A copy of proof of payment.
- A short research proposal 2 copies

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)

## Proposal / Concept Paper

Submit a short research interest in English (200 - 500 words) ส่งพร้อมกับ Required Documents

## Job option after graduation

- Academic.
- Researcher working in the university, government and private sector.
- Pharmacological instructor working in the organization of public and private sector.

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

1. **Assos. Prof. Dr. Nathawut Sibmooh** (E-mail : [nathawut.sib@mahidol.ac.th](mailto:nathawut.sib@mahidol.ac.th))  
Room B512, Biology Building, Floor 5, Department of Pharmacology, Faculty of Science.  
Tel. : 0 2201 5509 Fax. : 0 2354 7157
  
2. **Asst. Prof. Dr. Pornpun Vivithanaporn** (E-mail : [pornpun.viv@mahidol.ac.th](mailto:pornpun.viv@mahidol.ac.th))  
Room Pr526, Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.  
Tel. : 0 2201 5651 Fax. : 0 2354 7157

**Program Coordinator**

**Miss Suprapha Sriphrachan** (E-mail : [suprapha.sri@mahidol.ac.th](mailto:suprapha.sri@mahidol.ac.th))  
Room Pr506, Preclinic Building, Floor 5, Department of Pharmacology, Faculty of Science.  
Tel. : 0 2201 5641-2 Fax. : 0 2354 7157

- Notes**
1. For more education information : <http://www.grad.mahidol.ac.th>
  2. The programme of Pharmacology requires students study the pre - requisite course:
    - SCID 500 Cell and Molecular Biology 3 Credits

**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](mailto:gradthai@mahidol.ac.th)**