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Doctor of Philosophy Program in Pharmacology (International Program)

หลักสูตร ปรัชญาดุษฎีบัณฑิต สาขาวิชา เกษัชวิทยา (นานาชาติ) (ภาคปกติ)

Faculty of Medicine, Siriraj Hospital Department of Pharmacology

คณะแพทยศาสตร์ศิริราชพยาบาล ภาควิชา เกษัชวิทยา

Expected number of students to be accepted year round : 3 Students

### Admission Requirements

#### A candidate must:

1. Students must hold a Bachelor degree in Science, Dentistry, Medicine, Pharmaceutical science and Veterinary medicine, receive a cumulative GPA of at least 3.50 or
2. Student must hold a Master degree in Science, Pharmaceutical science, and Veterinary medicine, receive a cumulative GPA of at least 3.50
3. 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.

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.)

<u>First Round</u> January 17, 2015		<u>Second Round</u> May 16, 2015	
Subjects for examination	Time	Subjects for examination	Time
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. Biochemistry	} 1.30 - 4.30 p.m.	3. Biochemistry	} 1.30 - 4.30 p.m.
4. Physiology			
5. Pharmacology			
<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

	<b>Credit</b>
<b>For students with Bachelor's degree</b>	
Required Courses	20
Elective Courses	4
Thesis	48
<b>For students with Master's degree</b>	
Required Courses	6
Elective Courses	6
Thesis	36

	<b>credit</b>
<b>For students with Bachelor's degree</b>	
<b>Required Course</b>	
SIPM 503 General Medical Pharmacology	2(2-0-4)
SIPM 502 Seminar in Pharmacology	2(2-0-4)
SIPM 504 Systemic Medical Pharmacology	4(4-0-8)
SIPM 600 Advanced Pharmacology	3(3-0-6)
SIPM 602 Experiment Methods in Pharmacology	3(0-6-3)
SIPM 603 New Drug Development I	3(3-0-6)
SIPM 604 New Drug Development II	3(3-0-6)
<b>For students with Master's degree</b>	
SIPM 603 New Drug Development I	3(3-0-6)
SIPM 604 New Drug Development II	3(3-0-6)
<b>Elective Course</b>	
SIBC 504 Biochemistry	4(4-0-8)
SIBC 512 Biochemistry Laboratory	3(0-6-3)
SIIM 612 Diagnostic Immunology	3(2-2-5)
SIMI 611 Molecular Techniques in Medical Microbiology	3(2-2-5)
SIMI 614 Vaccine Development and Clinical Trials	2(2-0-4)
<b>Thesis</b>	
SIPM 699 Dissertation	48/36(0-144/108-0)
<b>* These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum</b>	

**Areas of study that a student may select for concentration:**

1. Clinical pharmacology, Pharmacokinetics, Epidemiology pharmacology
2. Immuno pharmacology
3. Antiinflammatory pharmacology
4. Molecular Pharmacology
5. Safety/efficacy/identity of herbal components
6. Animal models in pharmacology

**Details of Scholarships**

1. The Siriraj Graduate Scholarships.
2. The Siriraj Graduate Thesis Scholarships.

**Additional advantages of the programme**

1. The research environment in the department provide an opportunity for graduate student to conduct corresponding basic and clinical research.
2. Student will be trained to understanding question physiology and pathologic condition of diseases.
3. The facilities of the Department of Pharmacology and the core facilities of the Faculty of Medicine provide state of the art research in students for biomedical science.
4. A recently implemented program in new drug development provides a huge resource of biomedicines with accompanying clinical training opportunity. This is a collaborating project with EU which will be the first program in Asean community.
5. The Ph.D. candidates will be trained to raise logical research questions and conduct matching approaches to their working hypothesis.

**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.

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**

1. Scientist
2. Researcher

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

1. **Assoc.Prof.Dr. Uraiwan Panich** (E-mail : [uraiwan.pan@mahidol.ac.th](mailto:uraiwan.pan@mahidol.ac.th))  
Room 1214 Srisavarinthira Building, Floor 12, Department of Pharmacology,  
Faculty of Medicine Siriraj Hospital.  
Tel: 0 2419 5254 Fax: 0 2411 5026

#### **Program Coordinator**

**Miss. Phattaraphorn Pumseenil** (E-mail : [phattaraphorn.pum@mahidol.ac.th](mailto:phattaraphorn.pum@mahidol.ac.th))  
Office Room Srisavarinthira Building, Floor 12, Department of Pharmacology,  
Faculty of Medicine Siriraj Hospital.  
Tel: 0 2419 8736 Fax: 0 2411 5026

- Notes**
1. The programme of Medical Biochemistry and Molecular Biology requires students to study the pre - requisite course:
    - SIID 501 Molecular and Cellular Basis of Biomedicine 3 Credits
  2. For more education information : <http://www.grad.mahidol.ac.th>

**For more Information please contact The Student Admissions Section.  
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : [gradthai@mahidol.ac.th](mailto:gradthai@mahidol.ac.th)**