

Admission Number

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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. Submit a certificate of English proficiency with minimum admission score:
  - IELTS - at least 3 or
  - TOEFL INTERNET BASED - at least 32 or
  - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400 or
  - MU GRAD TEST(Computer based) - at least 36

**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](http://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
4. 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. General Science	9.00 - 10.00 a.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>	

## 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)
Elective Courses	
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)

### **Thesis**

SCPM 698 Thesis 12(0-48-0)

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

### **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**

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 / MU GRAD TEST(Computer based)
- A copy of proof of payment.
- A short research proposal

### **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)**