Admission Number | 2 | 1 | 0 | 8 | M | G | 0 | 0 |

Master of Science Programme in Pharmacology (International Programme)

Faculty of Science **Department of Pharmacology**

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 ITP score of at least 480, TOEFL Internet-based score of 54 or IELTS score of 5 or MU GRAD TEST score of 60.

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

Curriculum Structure

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

			Credit
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 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 60th 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

Required Documents

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

1. Completed an Online Application at **www.grad.mahidol.ac.th** which comprised with
   - **Form A** : Application Form
   - **Form B** : Background and Proposed Field of Study
   - **Form C** : Recommendation Forms (directly submitted by at least 2 referees)
2. Two copies of Degree Certificate (with officially certified English translation)
3. Two copies of Academic Transcript (with officially certified English translation)
4. Two copies of Recent Photos (Passport size)
5. Two copies of Passport
6. Two copies of English certificate (TOEFL/ IELTS/ MU-Grad Test)

   (For Doctoral Program)
   - TOEFL ITP score of at least 500, TOEFL Internet-based score of 61, or IELTS score of 5

   (For Master's Program)
   - TOEFL ITP score of at least 480, TOEFL Internet-based score of 54, IELTS score of 5 or MU GRAD TEST score of 60.

   Notes
   - Only accept TOEFL ITP score from examination center arranged by Faculty of Graduate Studies, Mahidol University.
   - TOEFL ITP taken from other domestic and overseas institutes are invalid.
   - The test date must be within previous 2 years before application date
   - Applicant who obtained a valid English score must submit an **official score certificate** along with your application. Otherwise, your English score will not be considered.
   - Detail of English Competency Standard for Admission: http://www.grad.mahidol.ac.th/en/current-students/language-center.php
7. Two copies of Curriculum Vitae
8. Two copies of Statement of Purposes and Career Goals
9. Two copies of Current bank statement / Scholarship letter (if any)
10. Two copies of Concept paper / research proposal (recommended for all applicants)
11. Two copies of additional documents may be requested by each program (such as letter of work experience / professional license/ related certificates and awards)

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)**

   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)**
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)
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 : gradinter@mahidol.ac.th