

Admission Number

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**Doctor of Philosophy Programme in Translational Medicine (International Programme)**

**Faculty of Medicine Ramathibodi Hospital**

**Admission Requirements**

**A Candidate Must :**

**1. Candidate with the Bachelor's degree :-**

- 1.1 Who has graduated or are studying in the final year of Bachelor's degree courses in Biology, Health Science, or those who has graduated with Bachelor's degree in Pharmacology, Veterinary medicine or with other majors from the institutes acknowledge by Office of the Higher Education Commission and must hold a GPA of over 3.25
- 1.2 Who has graduated with Bachelor's degree in Medicine, Dentistry from the institutes acknowledged by Office of the Higher Education Commission or those who are studying under The medical scholars program of schools medicine or dentistry, and must hold a GPA of over 3.00
- 1.3 Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

Exceptions from the above conditions may be granted by the Programme Committee and the Dean of Faculty of Graduate Studies;

**2. Candidate with the Master's degree :-**

- 2.1 Who has graduated with Master's degree in Biology or Health Science
- 2.2 Have a minimum grade point average of 3.50 ;
- 2.3 Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

Exceptions from the above conditions may be granted by the Programme Committee and the Dean of Faculty of Graduate Studies;

**Curriculum Structure**

	<b>Credit</b>
<b>For students with Bachelor's Degree in</b>	
Required courses	15
Elective courses not less than	9
Dissertation	48
<b>For students with Master's Degree</b>	
Required courses	15
Elective courses not less than	5
Dissertation	36

			<b>Credit</b>
<b>Required Courses</b>			
RATM	501	Molecular Mechanisms of Human Diseases	2(2-0-4)
RATM	502	Biomedical Research Technology	2(2-0-4)
RATM	503	Clinical Epidemiology and Biostatistics	3(3-0-6)
RATM	504	Observation and Analysis of Clinical Problems	2(0-4-2)
RATM	505	Research Skills and Laboratory Safety	2(0-4-2)
RATM	506	Critical Analysis of Biomedical and Translational Medical Research	1(0-2-1)
RATM	507	Seminars in Biomedical and Translational Medicine	1(0-2-1)
SCID	502	Cell Science	2(2-0-4)
<b>Elective Courses</b>			
SCID	500	Cell and Molecular Biology	3(3-0-6)
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 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)
SCMI	602	Advanced Immunology	3(3-0-6)
SCMI	603	Advanced Parasitology	3(3-0-6)
SCMI	604	Advanced Virology	3(3-0-6)
SCPA	601	Cellular Pathology I	2(2-0-4)
SCPM	508	Special Topics in Pharmacology	2(2-0-4)
SCPM	611	Advanced Pharmacology	3(3-0-6)
SCPS	612	Current Topics in Cell Physiology	3(3-0-6)
SCPS	631	Systems Physiology	4(3-2-7)
SCTX	604	Molecular Toxicology and Genetic	2(2-0-4)
<b>Dissertation</b>			
<b>For students with Master's Degree</b>			
RATM	699	Dissertation	36(0-108-0)
<b>For students with Bachelor's Degree</b>			
RATM	799	Dissertation	48(0-144-0)
* These may change in cases where there are suggestions for the improvement of the curriculum			

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

Pathogenesis of human disease; Genetics, Epigenomics, Genomics, Transcriptomics, Proteomics, study of human disease; stem cell biology; Biochemistry; Microbiology; Pharmacology; Immunology; physiology; Pharmacogenomics; Biomedical engineering; Bioinformatics; systems biology; molecular Epidemiology; ect.

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

our program is the first Ph.D. program focusing on translational medicine in Thailand. The program aims to decompartmentalize the traditional research training, where basic scientists are not generally trained to think of the clinical application of their work, and clinicians are often not taught to formulate research studies based on clinical observations. To achieve this, the students will be mentored by both scientists and clinicians to provide the opportunity to focus on the translation of scientific discoveries into the application of diagnosis, prognosis prediction, therapies and cures of human diseases. The curriculum offers a broad exposure to clinical medicine in multidisciplinary fashion in order to fit best with the interest, background and requirement of each student, as well as a strong foundation of knowledge in research design, methodology, and skill in writing proposal for competitive research funding. In addition, medical-related emerging fields such as pharmacogenomics, personalized medicine, and bioengineering etc., are open for those students who are interested in such area

### **Details of Scholarships**

Scholarships are available for potential candidates upon the decision of administration program committee

### **Proposal / Concept Paper**

One A4 page personal statement covering your reason for choosing our program, your past achievement and future plan, and why you should receive a scholarship, if you plan to apply for one

### **Additional information for applicants**

Please fill in online application from at the Faculty of Graduate Studies website

For more information please contact Program Coordinator

Email: [ratransmed@mahidol.ac.th](mailto:ratransmed@mahidol.ac.th) Tel. 02-201-0116 Fax. 02-201-1611

### **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:

1. Completed an Online Application at [www.grad.mahidol.ac.th](http://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)

**Job option after graduation**

1. Scientists, researchers in medical sciences
2. Lecturers or instructors who work in government or private educational institutions experts or consultants in translational medicine
3. Owners or personnels of companies that need expertise in translational medicine
4. Managing directors for research projects conducted by Pharmaceutical and Biotechnological companies

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

**Translational Medicine:**

1. **Prof. Pratak O-Prasertsawat,MD** (E-mail : [pratak.opr@mahidol.ac.th](mailto:pratak.opr@mahidol.ac.th))  
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital  
Tel: 0 2201 0116 Fax 0 2201 1611
2. **Dr.Natini Jinawath, MD, PhD, DABMG** (E-mail : [jnatini@hotmail.com](mailto:jnatini@hotmail.com))  
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital  
Tel: 0 2201 0116 Fax 0 2201 1611

**Program Coordinator**

1. **Miss. Panida Prachumwong** (E-mail : [panida.prc@mahidol.ac.th](mailto:panida.prc@mahidol.ac.th))

Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital

Tel: 0 2201 0116

Fax 0 2201 1611

**Note** 1. For more education information : [www.grad.mahidol.ac.th](http://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 : [gradinter@mahidol.ac.th](mailto:gradinter@mahidol.ac.th)**