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Doctor of Philosophy Programme in Translational Medicine (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา เวชศาสตร์ปริวรรต (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Medicine Ramathibodi Hospital

คณะแพทยศาสตร์โรงพยาบาลรามาธิบดี

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

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 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

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
 - MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222
- 1.4 Exemption from the above conditions may be granted by the Programme Committee under exceptional circumstances.

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 Submit a certificate of English proficiency with minimum admission score:
 - IELTS - at least 3 or
 - TOEFL INTERNET BASE - at least 32 or
 - TOEFL ITP (test arranged by Faculty of Graduate Study, Mahidol University) - at least 400

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
- MU English proficiency tests, please contact the Language Center, Faculty of Graduate Studies. Tel. 0-2441-4125 ext. 221-222

2.4 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. Biology 2. Biochemistry 3. General Science	9.00 - 12.00 a.m.
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th	

Curriculum Structure

	Credit
Plan 1	
For students with Master's Degree	
Required courses	-
Dissertation	48
For students with Bachelor's Degree	
Required courses	-
Dissertation	72
Plan 2	
For students with Master's Degree Programme in Translational Medicine	
Required courses	8
Elective courses not less than	4
Dissertation	36
For students with Master's Degree	
Pre-requisite Courses	-
Required courses	8
Elective courses not less than	4
Dissertation	36

For students with Bachelor's Degree			
Required courses			20
Elective courses not less than			4
Dissertation			48
			Credit
Plan 1			
For students with Master's Degree / Bachelor's Degree			
Required courses			
RATM 606	Critical Analysis of Biomedical and Translational Medical Research		1(1-0-2)
RATM 607	Seminars in Biomedical and Translational Medicine		1(1-0-2)
RATM 608	Communication in Translational Medicine Research I		1(1-0-2)
RATM 609	Communication in Translational Medicine Research II		1(1-0-2)
Dissertation			
For students with Master's Degree			
RATM 898	Dissertation		48(0-192-0)
For students with Bachelor's Degree			
RATM 899	Dissertation		72(0-288-0)
Plan 2			
For students with Master's Degree Programme in Translational Medicine			
Required courses			
RATM 604	Analysis of Clinical Problems		2(2-0-4)
RATM 605	Advanced Research Skills and Laboratory Safety		2(1-2-3)
RATM 606	Critical Analysis of Biomedical and Translational Medicine Research		1(1-0-2)
RATM 607	Seminars in Biomedical and Translational Medicine		1(1-0-2)
RATM 608	Communication in Translational Medicine Research I		1(1-0-2)
RATM 609	Communication in Translational Medicine Research II		1(1-0-2)
Elective courses			
SCID 503	Systemic Bioscience		3(3-0-6)
SCID 506	Concept of Molecular Biosciences		2(2-0-4)
SCID 511	Gene Technology		1(0-2-1)
SCID 513	Animal Cell Culture Techniques		1(0-2-1)
SCPM 508	Special Topics in Pharmacology		2(2-0-4)
SCPS 612	Current Topics in Cell Physiology		3(3-0-6)
Dissertation			
RATM 699	Dissertation		36(0-144-0)
For students with Master's Degree			

Pre-requisite Courses

SCID	500	Cell and Molecular Biology	3(3-0-6)
RATM	511	Molecular Basis of Human Diseases	3(3-0-6)
RATM	512	Technology in Translational Medicine	3(3-0-6)
RATM	513	Clinical Epidemiology and Biostatistics in Translational Medicine	3(3-0-6)

Required Courses

RATM	604	Analysis of Clinical Problems	2(2-0-4)
RATM	605	Advanced Research Skills and Laboratory Safety	2(1-2-3)
RATM	606	Critical Analysis of Biomedical and Translational Medicine Research	1(1-0-2)
RATM	607	Seminars in Biomedical and Translational Medicine	1(1-0-2)
RATM	608	Communication in Translational Medicine Research I	1(1-0-2)
RATM	609	Communication in Translational Medicine Research II	1(1-0-2)

Elective Courses

SCID	503	Systemic Bioscience	3(3-0-6)
SCID	506	Concept of Molecular Biosciences	2(2-0-4)
SCID	511	Gene Technology	1(0-2-1)
SCID	513	Animal Cell Culture Techniques	1(0-2-1)
SCPM	508	Special Topics in Pharmacology	2(2-0-4)
SCPS	612	Current Topics in Cell Physiology	3(3-0-6)

Dissertation

RATM	699	Dissertation	36(0-144-0)
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**For students with Bachelor's Degree
Required Courses**

SCID	500	Cell and Molecular Biology	3(3-0-6)
RATM	511	Molecular Basis of Human Diseases	3(3-0-6)
RATM	512	Technology in Translational Medicine	3(3-0-6)
RATM	513	Clinical Epidemiology and Biostatistics in Translational Medicine	3(3-0-6)
RATM	604	Analysis of Clinical Problems	2(2-0-4)
RATM	605	Advanced Research Skills and Laboratory Safety	2(1-2-3)
RATM	606	Critical Analysis of Biomedical and Translational Medicine Research	1(1-0-2)
RATM	607	Seminars in Biomedical and Translational Medicine	1(1-0-2)
RATM	608	Communication in Translational Medicine Research I	1(1-0-2)
RATM	609	Communication in Translational Medicine Research II	1(1-0-2)

Elective Courses

SCID	503	Systemic Bioscience	3(3-0-6)
SCID	506	Concept of Molecular Biosciences	2(2-0-4)
SCID	511	Gene Technology	1(0-2-1)

SCID	513	Animal Cell Culture Techniques	1(0-2-1)
SCPM	508	Special Topics in Pharmacology	2(2-0-4)
SCPS	612	Current Topics in Cell Physiology	3(3-0-6)

Dissertation

RATM	799	Dissertation	48(0-192-0)
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*** 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 Tel. 02-201-0116 Fax. 02-201-1611

Application Process

Application is only available via online application at 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.

- A recent photograph (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
- A copy of proof of payment.

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. Duangrurdee Wattanasirichaigoon,MD** (E-mail : duangrurdee.wat@mahidol.ac.th)
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital
Tel: 0 2201 0116 Fax 0 2201 0116
2. **Dr.Natini Jinawath, MD, PhD, DABMG** (E-mail : jnatini@hotmail.com)
Research Center , Floor 3 , Faculty of Medicine, Ramathibodi Hospital
Tel: 0 2201 2615 Fax 0 2201 0116

Program Coordinator

1. **Miss. Nuathip Mongkonthanarak** (E-mail : ratransmed@mahidol.ac.th)

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

Tel: 0 2201 0116

Fax 0 2201 0116

Note 1. For more education information : 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 : gradthai@mahidol.ac.th