Admission Number

6 2 0 1 D G 0 0

Doctor of Philosophy Programme in Molecular Medicine (International Programme)
หลักสูตร ปรัชญาดุษฎีบัณฑิต สาขาวิชา เวชศาสตร์ระดับโมเลกุล (หลักสูตรนานาชาติ) (ภาคปกติ)
Faculty of Science, Faculty of Medicine, Ramathibodi Hospital, Faculty of Dentistry,

Faculty of Tropical Medicine, Faculty of Graduate Studies

คณะวิทยาศาสตร์, คณะแพทยศาสตร์โรงพยาบาลรามาธิบดี, คณะทันตแพทยศาสตร์, คณะเวชศาสตร์เขตร้อน และ บัณฑิตวิทยาลัย

Expected number of Students to be accepted all year round: 10 Students

Admission Requirements

A candidate must:

Plan 1

- 1. Candidate must hold or is expected to hold a Bachelor's degree of Science in the discipline of Biological or Life Science, with a minimum GPA of 3.25.
- 2. Candidate must hold a Master's degree of Science, with a minimum GPA of 3.50.
- 3. Candidate graduated from School of Medicine or School of Dentistry, with a minimum GPA of 3.00.
- Candidate graduated from School of Pharmacy or Veterinary Medicine, with a minimum GPA of 3.25.
- 5. Candidates who are currently studying in Ph.D/M.D. of Ph.D/D.D.S. program provided that they have a GPA of no less than 3.00 with approval from Doctoral Program Committee and Dean of Faculty of Graduate Studies.
- 6. 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.
- 7. 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

Exceptions to the above mentioned conditions can be made only by the Programme Graduate Administrative Committee and the Dean of the Faculty of Graduate Studies, Mahidol University

Plan 2

- 1. Candidate must hold or is expected to hold a Bachelor's degree of Science in the discipline of Biological or Life Science, with a minimum GPA of 3.25.
- 2. Candidate must hold a Master's degree of Science, with a minimum GPA of 3.50.
- 3. Candidate graduated from School of Medicine or School of Dentistry, with a minimum GPA of 3.00.
- Candidate graduated from School of Pharmacy or Veterinary Medicine, with a minimum GPA of 3.25.
- Candidates who are currently studying in Ph.D/M.D. of Ph.D/D.D.S. program provided that they
 have a GPA of no less than 3.00 with approval from Doctoral Program Committee and Dean
 of Faculty of Graduate Studies.
- 6. 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.
- 7. 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

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First Round January 17, 2015		Second Round 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.

Examination Place

Mahidol University, Salaya, Nakhonpathom more details: www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.

Curriculum Structure

Plan 1 For students with Master's degree	Credit
Thesis no less than	48
For students with Bachelor's degree	
Thesis no less than	72
Plan 2 For students with Master's degree	
Required Courses	10
Elective Courses no less than	2
Thesis	36
For students with Bachelor's degree	
Required Courses	12
Elective Courses no less than	12
Thesis	48

		Credit
Plan 1		
Thesis For stude	nts with Master's degree	
	98 Dissertation	48(0-144-0)
For stude	nts with Bachelor's degree	
	99 Dissertation	72(0-216-0)
	Evamination	. =(0 = 10 0)

Qualifying Examination

- 1. Students are required to assess the qualifying examination availability and the ability to have a thesis proposal.
- 2. Students who fail to qualifying examination for an excuse to have time to apply for re-examination excuse for an exam with the next semester since the first examination.

	Plan 2 Required Courses For students with Master's degree				
SCID	502	Cell Science	2(2-0-4)		
SCID	503	Systemic Bioscience	3(3-0-6)		
SCID	506	Concepts of Molecular Bioscience	2(2-0-4)		
SCID	518	Generic Skills in Science Research	1(1-0-2)		
SCID	519	Special Content in Molecular Medicine	3(2-3-5)		
SCID	624	Molecular Medicine Seminar I	1(1-0-2)		
SCID	625	Molecular Medicine Seminar II	1(1-0-2)		
For stu	dents wi	ith Bachelor's degree			
SCID	502	Cell Science	2(2-0-4)		
SCID	503	Systemic Bioscience	3(3-0-6)		
SCID	506	Concepts of Molecular Bioscience	2(2-0-4)		
SCID	513	Animal Cell Culture Techniques	1(0-2-1)		
SCID	518	Generic Skills in Science Research	1(1-0-2)		
SCID	519	Special Content in Molecular Medicine	3(2-3-5)		
SCID	624	Molecular Medicine Seminar I	1(1-0-2)		
SCID	625	Molecular Medicine Seminar II	1(1-0-2)		
SCID	626	Molecular Medicine Seminar III	1(1-0-2)		
	e Course dents wi	es ith Bachelor's degree			
SCID	500	Cell and Molecular Biology	3(3-0-6)		
SCID	507	Microscopic Technique	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	514	Animal Experimentation in Biomedical Research	1(0-2-1)		
SCID	516	Biostatistics	3(3-0-6)		
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	611	Advanced Pharmacology	3(3-0-6)		
SCPS	631	Systems Physiology	4(3-2-7)		
SCTX	601	Molecular Toxicology	3(3-0-6)		
For students with Master's degree					
SCID	500	Cell and Molecular Biology	3(3-0-6)		
SCID	507	Microscopic Technique	3(3-0-6)		
SCID	508	Biomolecular and Spectroscopy Techniques	1(0-2-1)		
SCID	509	Separation Techniques	1(0-2-1)		

SCID	510	Immunological Mothods	1(0.2.1)
		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)
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	611	Advanced Pharmacology	3(3-0-6)
SCPS	631	Systems Physiology	4(3-2-7)
SCTX	601	Molecular Toxicology	3(3-0-6)
Thesis			
Plan 1			
SCID	898	Dissertation	48(0-144-0)
SCID	899	Dissertation	72(0-216-0)
Plan 2			
SCID	699	Dissertation	36(0-108-0)
SCID	799	Dissertation	48(0-144-0)
* These May Change in Cases Where There are Suggestions for The Improvement of The Curriculum			

Details of Scholarship

- 1. Institutional Strengthening Program
- 2. Application Form For Scholarship

Additional advantages of the programme

Doctor of Philosophy Programme in Molecular Medicine is a new multidisciplinary program aims to provide students with flexible and integrated approach to medical and dental disciplines using cutting edge molecular biology and genetics technologies.

Additional information for applicants

Students will learn molecular biology, genetics, cell technologies, bioinformatics, - ome and - omics as pharmacogenomics, metabolomics and etc; and applied the knowledge in the diagnosis, treatment and prevention of many diseases.

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:

- Two (2) recent photographs (1x1 inch in size)
- A copy of an applicant's degree certificate or a letter of graduation certification 2 copies (for an applicant with a degree completion)
- A letter certifying that an applicant is currently in the final year prior to graduation 2 copies (for an applicant seeking for a degree)
- 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 2 copies semester prior to graduation

- A copy of identification card
- A copy of house registration certification 2 copies

2 copies

- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 2 copies http://www.grad.mahidol.ac.th/grad/academicinfo/engstandard2553_th.php
 Those who early submit a valid English score prior to the examination will be exempt from English test on the examination date.
- 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 <u>ipeg format</u> only (maximum size 2 MB)

Job option after graduation

- 1. A lecturer, instructor, scientist, researcher and consultant in government.
- 2. A research specialist in scientific products/equipment in the government or any private company.
- 3. An owner of a company or an organization that utilizes scientific background to asist in its success.

Further information may be obtained from the Secretary of Molecular Medicine :

1. Assoc. Prof. Sukumal Chongthammakun (E-mail: sukumal.cho@mahidol.ac.th) Graduate Studies Room, R Building, Floor 1, Faculty of Science.

Tel: 0 2201 5209

2. Asst.Prof. Nathawut Sibmooh (E-mail : nathawut.sib@mahidol.ac.th)

Room B.512, B Building, Floor 5, Department of Pharmacology, Faculty of Science.

Tel: 0 2201 5509

Program Coordinator

Mrs. Patchara Ongard (E-mail: patchara.ong@mahidol.ac.th)

Room B.400, B Building, Floor 4, Multidisciplinary Coordinating Center.

Faculty of Science.

Tel. : 0 2201 5472 Fax. : 0 2644 5426

Notes 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