

Admission Number

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**Doctor of Philosophy Programme in Medical Biochemistry and Molecular Biology
(International Programme)**

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา ชีวเคมีและชีววิทยาโมเลกุลทางการแพทย์
(นานาชาติ) (ภาคปกติ)

Faculty of Medicine, Siriraj Hospital
คณะแพทยศาสตร์ศิริราชพยาบาล

Department of Biochemistry
ภาควิชา ชีวเคมี

Expected number of Students to be accepted year round : 2 Students

Admission Requirements

A candidate must:

1. Candidate with the Bachelor's degree:-

- 1.1 hold a degree or be studying in the final year of Bachelor's Degree of Science (all fields of study), Doctor of Dental Surgery, Doctor of Medicine, Bachelor of Pharmacy, Doctor of Veterinary Medicine, or other related fields
- 1.2 have a minimum grade point average of 3.50 after graduation or during the final year of Bachelor's Degree
- 1.3 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 score specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.
- 1.4 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

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

2. Candidate with the Master's degree or equivalent degrees :-

- 1.1 hold a degree or be studying in the final year of Master's Degree of Science (all field of study), or Master's degree in Dentistry, Pharmacy, Veterinary Medicine, or students who graduated from overseas institute approved by the Higher Education Commission
- 1.2 have a minimum grade point average of 3.50
- 1.3 Students who are studying in Master's program in Medical Biochemistry and Molecular Biology can change student status to a Doctoral student with the following conditions : receive a minimum cumulative GPA of 3.50 for Master's degree, already enrolled in the Master's Degree level at least 1 year with approvals from Master's program director, Doctoral program director as well as the Dean of the Faculty of Graduate Studies
- 1.4 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 score specified above will have to take the English Proficiency Examination of the Faculty of Graduate Studies on the specified examination day.
- 1.5 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:
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Written Examination (Applicants must attend the examination date accurately to your admission round.)

<u>First Round</u> January 17, 2015		<u>Second Round</u> 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.
2. General Knowledge	11.30 - 12.30 p.m.	2. General Knowledge	11.30 - 12.30 p.m.
3. Biology	} 1.30 - 4.30 p.m.	3. Biology	} 1.30 - 4.30 p.m.
4. Biochemistry		4. Biochemistry	
5. Chemistry		5. Chemistry	
Examination Place Mahidol University , Salaya , Nakhonpathom more details : www.grad.mahidol.ac.th or Announcement at Faculty of Graduate Studies branches.			

Curriculum Structure

	Credit
For students with Bachelor's Degree	
Required courses	16
Elective courses	8
Dissertation	48
For students with Master's Degree	
Required courses	2
Elective courses	10
Dissertation	36

	credit
For students with Bachelor's Degree	
Required Courses	
SIID 501 Molecular and cellular basic of biomedicine	3(2-2-5)
SIBC 504 Biochemistry	4(4-0-8)
SIBC 512 Biochemistry Laboratory	3(0-6-3)
SIBC 585 Critical analysis in medical biochemistry and molecular biology research I	1(1-0-2)
SIBC 685 Critical analysis in medical biochemistry and molecular biology research II	1(1-0-2)
SIBC 606 Advanced Biochemistry	4(4-0-8)
Elective Courses	
GRID 512 Basic Medical Sciences and Correlated Clinical Sciences	3(3-0-6)
GRID 603 Biostatistics	3(3-0-6)

SIBC 505 Laboratory Technique	2(2-0-4)
SIBC 603 Biochemistry of Diseases	2(2-0-4)
SIBC 604 Statistics in Medical Genetics	1(1-0-2)
SIRE 501 Statistics	3(3-0-6)
SIRE 502 Research Methodology	2(2-0-4)
Dissertation	
SIBC 699 Dissertation	48(0-144-0)
For students with Master's Degree Required Courses	
SIBC 585 Critical analysis in medical biochemistry and molecular biology research I	1(1-0-2)
SIBC 685 Critical analysis in medical biochemistry and molecular biology research II	1(1-0-2)
Elective Courses	
GRID 512 Basic Medical Sciences and Correlated Clinical Sciences	3(3-0-6)
GRID 603 Biostatistics	3(3-0-6)
SIBC 505 Laboratory Technique	2(2-0-4)
SIBC 603 Biochemistry of Diseases	2(2-0-4)
SIBC 604 Statistics in Medical Genetics	1(1-0-2)
SIRE 501 Statistics	3(3-0-6)
SIRE 502 Research Methodology	2(2-0-4)
Dissertation	
SIBC 699 Dissertation	36(0-108-0)
* These may change in cases where there are suggestions for the improvement of the curriculum	

Additional advantages of the programme

The department has diverse research activities in the areas of cellular, molecular and clinical biochemistry.

Details of Scholarships

1. The Graduate Scholarship Program for International Students from Neighboring countries
2. Graduate Scholarships
3. The Siriraj Graduate Thesis Scholarships

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 (for an applicant with a degree completion) 2 copies
- A letter certifying that an applicant is currently in the final year prior to graduation (for an applicant seeking for a degree) 2 copies

- 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 semester prior to graduation 2 copies
- A copy of identification card 2 copies
- A copy of house registration certification 2 copies
- A copy of Certificate of English score: TOEFL/IELTS/MU-Test (if any). See detail here: 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. 2 copies
- A 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 jpeg format only (maximum size 2 MB)

Job option after graduation

- Researcher, scientist, academician in the field of Biochemistry and Medical Molecular Biology
- An expert in Medical Biochemistry and Molecular Biology
- Biochemistry and Medical Molecular Biology laboratory manager
- Other related field of career which the knowledge of Biochemistry and Medical Molecular Biology is required.

Further information may be obtained from the Director of Graduate Studies, Medical Biochemistry and Molecular Biology :

1. Assoc. Prof. Dr. Nednapis Tirawanchai (Email : nednapis.tir@mahidol.ac.th)

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2. Lect. Wichit Suthammarak (Email : wichit.sut@mahidol.ac.th)

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Program Coordinator

Miss. Wannisa Imboonpeeti (Email : sibc@mahidol.ac.th)

Room 1001, Srisavarintira Building, Floor 10,
Department of Biochemistry, Faculty of Medicine, Siriraj Hospital
Tel: 0 2419 5356 Fax: 0 2419 9141

- Notes**
1. The programme of Medical Biochemistry and Molecular Biology requires students to study the pre-requisite course:
 - SIID 501 Molecular and cellular basic of biomedicine 3 Credits
 2. For more education information : <http://www.grad.mahidol.ac.th>

**For more Information please contact The Student Admissions Section.
Tel . 0 2441 4125 ext. 208-210 , 0 2441 9129, E-mail : gradthai@mahidol.ac.th**