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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 last 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 last 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.

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 last 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.

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

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	
SCID 500 Cell and Molecular Biology	3(3-0-6)
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 last semester 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 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

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- Notes** 1. The programme of Medical Biochemistry and Molecular Biology requires students to study the pre - requisite course:
- SCID 500 Cell and Molecular Biology 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