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

**Faculty of Medicine, Siriraj Hospital**

**Department of Biochemistry**

**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 ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

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 : -**

- 2.1 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
- 2.2 have a minimum grade point average of 3.50
- 2.3 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
- 2.4 Have a TOEFL ITP score of at least 500, TOEFL Internet-based score of 61 or IELTS score of 5 .

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

**Curriculum Structure**

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

	<b>credit</b>
<b>For students with Bachelor's Degree</b>	
<b>Required Courses</b>	
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)
<b>Elective Courses</b>	
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)
<b>Dissertation</b>	
SIBC 699 Dissertation	48(0-144-0)
<b>For students with Master's Degree</b>	
<b>Required Courses</b>	
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)
<b>Elective Courses</b>	
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)
<b>Dissertation</b>	
SIBC 699 Dissertation	36(0-108-0)

\* The courses may be changed in cases of curriculum revision

### **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](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**

- 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](mailto:nednapis.tir@mahidol.ac.th))  
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**Program Coordinator**

**Miss. Wannisa Imboonpeeti** (Email : [sibc@mahidol.ac.th](mailto:sibc@mahidol.ac.th))  
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- 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 : [gradinter@mahidol.ac.th](mailto:gradinter@mahidol.ac.th)