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Doctor of Philosophy Programme in Medical Microbiology (International Programme)

หลักสูตร ปรัชญาดุษฎีบัณฑิต

สาขาวิชา จุลชีววิทยาการแพทย์ (หลักสูตรนานาชาติ) (ภาคปกติ)

Faculty of Medicine, Siriraj Hospital Department of Microbiology

คณะแพทยศาสตร์ศิริราชพยาบาล

ภาควิชา จุลชีววิทยา

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

Admission Requirements

A Candidate must:

Plan 2

1. For the applicant who holds bachelor's degree,
 - 1.1. have a grade point average of at least 3.5 (candidates with a lower GPA may be eligible with the permission of the Program Committee);
 - 1.2. hold or be pursuing a bachelor's degree (in the last semester) in Microbiology, Biology, Biochemistry, Botany, Genetics, Biotechnology, Medical Technology, Pharmacy, Dentistry, Veterinary Medicine, Medicine or other related fields from an institution recognized by Mahidol University
2. For the applicant who holds master's degree,
 - 2.1 have a grade point average of at least 3.5 (candidates with a lower GPA may be eligible with the permission of the Program Committee);
 - 2.2 hold or be pursuing a master's degree (in the last semester) in microbiology or other related fields from an institution recognized by Mahidol University

For the master's degree trainee who wish to be transferred into the doctoral program must be granted by the course director and have a grade point average of at least 3.50
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 scores 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
Plan 2	
For students with Bachelor's degree	
Required Courses	17
Elective Courses no less than	7
Thesis	48
For students with Master's degree	
Required Courses	6
Elective Courses no less than	6
Thesis	36

	Credit
Required Courses	
Plan 2	
For students with Bachelor's degree	
Required Courses	
SIMI 512 Medical Bacteriology and Mycology	3(3-0-6)
SIMI 513 Medical Virology	2(2-0-4)
SIMI 613 Advanced Medical Virology	3(3-0-6)
SIMI 616 Diagnostic Microbiology	3(1-6-5)
SIMI 617 Advanced Medical Bacteriology and Mycology	3(3-0-6)
SIMI 688 Current Topics in Medical Microbiology	3(3-0-6)
Elective Courses	
SIIM 501 Immunology	2(2-0-4)
SCID 500 Cell and Molecular Biology	3(3-0-6)
SIBC 504 Biochemistry	4(4-0-8)
SIMI 514 HIV/AIDS : Molecular Virology, Immunology and Cell Biology	3(2-2-5)
SIMI 611 Molecular Techniques in Medical Microbiology	3(2-3-5)
SIMI 615 Fundamental of Diagnostic Microbiology	1(1-0-2)
SIMI 618 Advanced Molecular Techniques in Medical Microbiology	3(2-2-5)
SIMI 619 Vaccine Sciences	2(2-0-4)
Thesis	
SIMI 799 Dissertation	48(0-144-0)
For students with Master's degree	
Required Courses	
SIMI 613 Advanced Medical Virology	3(3-0-6)
or	
SIMI 617 Advanced Medical Bacteriology and Mycology	3(3-0-6)
SIMI 688 Current Topics in Medical Microbiology	3(3-0-6)
Elective Courses	
SIIM 501 Immunology	2(2-0-4)
SCID 500 Cell and Molecular Biology	3(3-0-6)
SIBC 504 Biochemistry	4(4-0-8)
SIMI 514 HIV/AIDS : Molecular Virology, Immunology and Cell Biology	3(2-2-5)
SIMI 611 Molecular Techniques in Medical Microbiology	3(2-3-5)
SIMI 613 Advanced Medical Virology	3(3-0-6)

SIMI 615 Fundamental of Diagnostic Microbiology	1(1-0-2)
SIMI 617 Advanced Medical Bacteriology and Mycology	3(3-0-6)
SIMI 618 Advanced Molecular Techniques in Medical Microbiology	3(2-2-5)
SIMI 619 Vaccine Sciences	2(2-0-4)
Thesis	
SIMI 699 Dissertation	36(0-108-0)
* These may change I cases where there are suggestions for the improvement of the curriculum	

Additional advantages of the programme

The Department of Microbiology at the Faculty of Medicine Siriraj Hospital, Mahidol University, has been considered to be one of the best medical microbiology departments in Thailand. There are 17 full-time faculty members with Ph.D. degree with research grants awarded from international and national agencies. The faculty members conduct highly impact research on clinical and molecular-related microbiology especially on emerging infectious pathogens including HIV/AIDS, influenza and avian influenza virus, enteroviruses, mycobacteria, leptospirosis, *Burkholderia pseudomallei*, drug resistant bacteria, etc. The cluster in bacteriology, mycology and virology provides an outstanding training environment and emphasizes research opportunities in cutting-edge molecular techniques, in a wide-range of fields. There are for research laboratories with well-equipped for molecular and clinical microbiology laboratories, approximately 70 graduate students, 20 researcher scientists (Ph.D. and M.Sc. degree), and 56 technicians in the department. Thus, it is not only large enough to provide a stimulating research environment but also small enough to allow close interactions between the faculty members and graduate students. All qualified graduate students will be able to receive a scholarship from the Faculty of Medicine. After graduation, they will gain such experience in medical microbiology research, which is highly needed by various organizations, private companies, research institutes and academic institutions. Thus, they will have a good opportunity for their career development. Plan 1 of training offers the Ph.D. training opportunity for the infectious disease professionals or experienced microbiologists who wish to advance their microbiology knowledge and develop advance research skill. The plan features research-oriented training with no course work required.

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

- Scientist, researcher, academia, scientific project supervisor who exercises the knowledge in medical microbiology
- Microbiology laboratory director/manager
- Medical microbiology expert
- Other careers where the knowledge in medical microbiology is required such as project analyst, project coordinator, product specialist, etc.

Further information may be obtained from the Director of Graduate Studies, Medical Microbiology :

1. **Lect. Dr. Iyarit thaipisuttikul** (Email : iyarit.tha@mahidol.ac.th)
Microbiology Building, Floor 4, Department of Microbiology, Faculty of Medicine, Siriraj Hospital
Tel: 0 2419 7069 Fax: 0 2418 4148

- Note**
1. The Programme of Medical Microbiology requires students study pre - requisite courses:
 - SCID 500 Cell and Molecular Biology 3 credits
 2. 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**