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Doctor of Philosophy Programme in Medical Microbiology (International Programme)

Faculty of Medicine, Siriraj Hospital Department of Microbiology

Admission Requirements

1. A candidate must:

For Plan 1

For the applicant who holds bachelor's degree,

- 1.1. have a grade point average of at least 3.25;
- 1.2. hold a bachelor's degree in Veterinary Medicine, Dentistry, Medicine, Pharmacy, Sciences of various majors from an institution recognized by Mahidol University AND is currently in or finished the Field Epidemiology Training Program (FETP) of the Bureau of Epidemiology, Ministry of Public Health OR is currently under the Subspecialty Board of Infectious Diseases training and seeking the dual-degree in Medical Microbiology. The course director of both programs has to agree upon the applicant's application

For the applicant who holds master's degree,

- 1.1. have a grade point average of at least 3.25;
- 1.2. be a physician who holds a Diploma of Subspecialty Board of Infectious Diseases or the Diploma of Subspecialty Board of Clinical Pathology; or hold a Master's degree of the microbiology-related major from an institution recognized by Mahidol University AND/OR with at least five years of experience in microbiology field AND is the first or corresponding author of at least one non-thesis publication in the peer review international journal

For Plan 2

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

For the applicant who holds master'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 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 3.5 and,

2. 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

	Credit
<u>Plan 1</u>	
For students with Bachelor's degree	
Thesis	72
For students with Master's degree	
Thesis	48
<u>Plan 2</u>	
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
<u>Plan 1</u>	
Required Courses	
For students with Bachelor's degree	
SIMI 899 Dissertation	72(0-216-0)
For students with Master's degree	
SIMI 898 Dissertation	48(0-144-0)
<u>Plan 2</u>	
<u>For students with Bachelor's degree</u>	
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)
SIID 501 Molecular and Cellular Basis of Biomedicine	3(2-2-5)
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)
<u>Plan 2</u>	
<u>For students with Master's degree</u>	
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)
SIID 501 Molecular and Cellular Basis of Biomedicine	3(2-2-5)
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 be changed in case of curriculum revision	

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:

- Completed an Online Application at 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)
- Two copies of Degree Certificate (with officially certified English translation)
- Two copies of Academic Transcript (with officially certified English translation)
- Two copies of Recent Photos (Passport size)
- Two copies of Passport
- 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

- Scientist, researcher, academician, 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/Secretary of Graduate Studies, Microbiology :

1. **Assoc. Prof. Dr. Pattarachai Kiratisin** (Email : pattarachai.kir@mahidol.ac.th)
Microbiology Building, Floor 5, Department of Microbiology, Faculty of Medicine, Siriraj Hospital
Tel: 0 2419 8035 Fax: 0 2418 4148
2. **Lect. Dr. Iyarit thaipisuttikul** (Email : iyarit.tha@mahidol.ac.th)
Microbiology Building, Floor 5, Department of Microbiology, Faculty of Medicine, Siriraj Hospital
Tel: 0 2419 8035 Fax: 0 2418 4148

- Notes**
1. The programme of Medical Microbiology requires students to study the pre - requisite course:
 - SIID 501 Molecular and Cellular Basis of Biomedicine 3(2-2-5) Credits
 2. For more education information : <http://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 : gradinter@mahidol.ac.th**