

Structure of Curriculum

◆ MSc Curriculum

	Bachelor degree (credit)
Required courses	18
Elective courses	6
Thesis	12

◆ PhD Curriculum

Plan 1 (Ph.D. by Publication)	Master's degree (credit)	Bachelor degree (credit)
Dissertation	48	72
Plan 2	Master's degree in Translational Medicine / Master's degree (credit)	Bachelor degree (credit)
Pre-requisite Courses	audit	-
Required courses	8	20
Elective courses	4	4
Dissertation	36	48

Coursework

Core

SCID 500	Cell and Molecular Biology
RATM 511	Molecular Basis of Human Diseases
RATM 512	Technology in Translational Medicine
RATM 513	Clinical Epidemiology and Biostatistics in Translational Medicine

MSc

PhD

RATM 514 Observation of Clinical Problems	RATM 604 Analysis of Clinical Problems
RATM 515 Laboratory Research Skills	RATM 605 Advanced Research Skills and Laboratory Safety
RATM 516 Current Topic in Translational Medicine	RATM 606 Critical Analysis of Biomedical and Translational Medicine Research
RATM 518 Scientific Presentation Skills	RATM 607 Seminars in Biomedical and Translational Medicine
	RATM 610 Communication in Translational Medicine Research
	RATM 611 Coaching and Mentoring in Translational Medicine Research

Scholarships



Available For Potential Candidates

How to Apply



www.graduate.mahidol.ac.th

CONTACT US



Program in Translational Medicine Website

For more information

Please contact Program Coordinator

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Email: ratransmed@mahidol.ac.th

Website: www.rama.mahidol.ac.th/transmed

Facebook: @ratransmed

Program in Translational Medicine.

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Bangkok 10400 Thailand.



Mahidol University
Faculty of Medicine Ramathibodi Hospital



Program in Translational Medicine

- ◆ Master of Science Program in Translational Medicine
- ◆ Doctor of Philosophy Program in Translational Medicine
- ◆ NSYSU Double Degree Program

(International Program)





Program in Translational Medicine
Video Presentation

What is Translational Medicine?

Translational medicine often defines as
"The process of the bidirectional transfer of knowledge between basic work (in the laboratory) with that of the clinic, in health or disease" or simply "from bench to bedside"

Objectives of the Program

PhD

At the completion of the program, the graduates will have the following knowledge, skills and attitudes according to Thai Qualifications Framework for Higher Education:

1. Possess moral standards and professional ethics
2. Plan the project to develop medical innovations by using appropriate research methodologies
3. Lead research projects using translational research approaches with the realization of the importance of clinical applications
4. Show leadership and work collaboratively with colleagues
5. Use information technology in self-study, presentation and dissemination of knowledge of medical science effectively and communicate research findings in an effective manner

MSc

At the completion of the program, the graduates will have the following knowledge, skills and attitudes according to Thai Qualifications Framework for Higher Education:

1. Possess moral standards and professional ethics
2. Apply principles and theories related to translational medicine and follow the advance of technology in the fields
3. Support and/or conduct research projects using translational research approaches
4. Show good teamwork skills, can work collaboratively with colleagues
5. Use information technology in self-study, presentation and dissemination of knowledge of medical science effectively and communicate research findings in an effective manner

Full time Instructors of the curriculum



Professor Dr. Chatchai Muanprasat

Research Interest:

1. Drug discovery for inflammation-associated diseases
2. Inhibitors of CFTR chloride channels



Professor Suradej Hongeng

Research Interest:

Hematology-Oncology



Associate Professor Dr. Natini Jinawath

Research Interest:

1. Cancer genomic
2. Copy number variation (CNV)
3. Cancer biomarker



Associate Professor Dr. Rossukon Kaewkhaw

Research Interest:

1. Childhood cancers (neuroblastoma and retinoblastoma)
2. Cancer modeling (tissue organoids and stem cell-derived organoids)
3. Drug reprofiling and discovery
4. Cancer genetics



Associate Professor Prapapom Pisitkun

Research Interest:

1. Rheumatology
2. Systemic lupus erythematosus



Assistant Professor Dr. Donniphat Dejsuphong

Research Interest:

1. DNA damage and repair
2. Genetic in cancer
3. Single gene disorders



Dr. Nuankanya Sathirapongsasuti

Research Interest:

1. Multi-omics data integration to identify novel pathways in kidney diseases
2. Genomic evolution of Thai box jellyfish.
3. Nanotechnology-based development for clinical diagnostic kits

Activity in Program



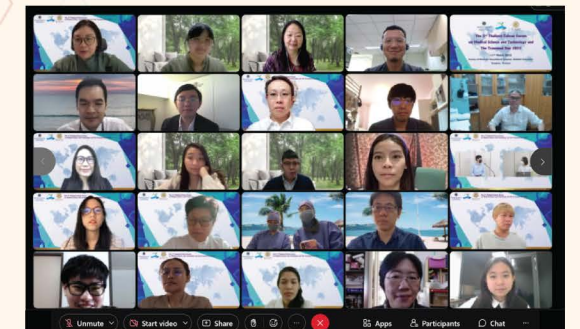
Analysis of Clinical Problems

Identification and analysis of clinical problems; Comparison and selection of as a model for conducting research; Recommendation of research methodology; Application of basic sciences for solving clinical problems; Ethics of clinical research



Advanced Research Skills and Laboratory Safety

Advance research skills; Advanced Genomic and high throughput research; Protein and metabolomic research; Cell and Stem cell research; Mini-project rotations; Research ethics



The 3rd Thailand-Taiwan Forum on Medical Science and Technology and The Transmed Day 2022

(Mahidol University, National Sun Yat-sen University and National Taiwan University)