

Experimental Parasitology (MD647703)
Department of Parasitology, Faculty of Medicine, KKU
Second Semester Academic year 2025

Lecture : Tuesday 10.00-11.00 : Parasitology meeting room 1

Lab. : Tuesday 13.00-17.00 : Lab 6 / Parasitology Research Lab

Date	Time	Topic	Lecturer
25-Nov-25	10.00 - 11.00	1. Course orientation Objective, teaching & learning processes, evaluation, research ethic	Thewarach Chatanun
2-Dec-25	10.00 - 11.00 13.00 - 17.00	2. Special staining of protozoa - Demonstration and practice	Oranuch Nuttapon
9-Dec-25	10.00 - 11.00 13.00 - 17.00	3. Special staining of helminths - Demonstration and practice	Chatanun Nuttanan
16-Dec-25	10.00 - 11.00 13.00 - 17.00	4. Cultivation of protozoa : <i>In vivo</i> and <i>in vitro</i> - Demonstration and practice	Nuttapon Rutchanee Thidarut
23-Dec-25	10.00 - 11.00 13.00 - 17.00	5. Maintenance & cultivation of nematodes : <i>In vivo</i> and <i>in vitro</i> - Demonstration and practice (<i>Trichinella</i>)	Oranuch Nuttanan
6-Jan-26	13.00 - 14.00 14.00 - 18.00	6. Maintenance & cultivation of platyhelminths: <i>In vivo</i> and <i>in vitro</i> - Demonstration and practice	Apisit Apiporn
13-Jan-26	10.00 - 11.00 13.00 - 17.00	7. Health GIS and mapping - Demonstration and practice	Apiporn
20-Jan-26	09.00 - 12.00	Midterm Examination (Topic 2-7)	Thewarach Chatanun
27-Jan-26	10.00 - 11.00 13.00 - 17.00	8. Molecular diagnosis for protozoa infection - Demonstration and practice	Thidarut Nuttapon
3-Feb-26	10.00 - 11.00 13.00 - 17.00	9. Artificial intelligence (AI) based diagnostics for parasitic diseases - Demonstration and practice	Penchom Oranuch
10-Feb-26	10.00 - 11.00 13.00 - 17.00	10. Serodiagnosis of tissue parasite infections - Demonstration and practice (Western blot & ELISA)	Nuttanan Rutchanee
17-Feb-26	10.00 - 11.00 13.00 - 17.00	11. Technique in Histotology Demonstration and practice	Apisit Nuttanan
24-Feb-26	10.00 - 11.00 13.00 - 17.00	12. Basic bioinformatic for gene and proteins sequence analysis; 12.1. Data retrieving-NCBI database, Blast, Parasite genome and transcriptome database 12.2. Sequence analysis – BioEdit (sequene editing, translation, sequence alignment etc.) 12.3. Phylogenetic tree construction	Thewarach Apisit Chatanun
10-Mar-26	13.00 - 14.00 14.00 - 18.00	13. Cloning and recombinant protein production for parasitology research - Demonstration and practice	Thewarach Rutchanee Sujittra

Date	Time	Topic	Lecturer
17-Mar-26	13.00 - 14.00 14.00 - 18.00	14. Cell and tissue culture for parasitology research - Demonstration and practice	Nuttanan Apisit
24-Mar-26	09.00 - 12.00	Final Examination (Topic 8-14)	Thewarach Chatanun
		Laboratory studies on special projects and report writing	Thesis advisor
23-Mar-26	09.00 - 16.30	Report submission (3 copies)	
31-Mar-26	13.00 - 16.30	Project presentation	Lecturers
7-Apr-26	09.00 - 16.30	Final report submission (2 copies)	
		Special project (0.5 credit)	Advisor only 21 hrs / semester

Lecturers :

Prof. Thidarut Boonmars
 Assoc. Prof. Thewarach Laha
 Assoc. Prof. Porntip Laummaunwai
 Assoc. Prof. Apiporn Thinkhamrop
 Assoc. Prof. Oranuch Sanpool
 Assist. Prof. Chatanun Eamudomkarn
 Assist. Prof. Nuttanan Hongsrichan
 Dr. Apisit Chaidee
 Dr. Nuttapon Ekobol
 Dr. Rutchanee Rodpai

Guest Lecturer : Asst. Prof. Penchom Janwan, School of Allied Health Sciences, Walailak University
 Asst. Prof. Sujittra Chaiyadet - Department of Tropical Medicine, Faculty of Medicine, KKU

Course organizer : Assoc. Prof. Thewarach Laha, e-mail : thewa_la@kku.ac.th
 Assist. Prof. Chatanun Eamudomkarn, e-mail : chatea@kku.ac.th

Course evaluation

Experimental Parasitology (MD647703)

Second Semester Academic year 2025

1. Course evaluation

Paper examination 40%

Special project 50%

(Lab performance 30 advisor only, report 40, presentation 10, knowledge 20 : total 100 = 50 %)

Assignment or report of each lab 10%

2. Paper examination (contents from lecture and lab)

First examination : 20 Jan 2026 (topics 2-7) = 18.5 %

Second examination : 24 Mar 2026 (topics 8-14) = 21.5 %

3. Special project

Report submission : 23 March 2026

Project presentation : 31 March 2026

Final Report submission : 7 April 2026

4. Scores will be deducted in cases of :

Absence from the class without letter of leave (0.5 % / time)

Late report submission (1 % / day)

5. Special project conduction

Special project should have been conducted since the beginning of the course.

Project report format has to follow MS of KKU, Journal of Graduate Studies.

6. Course organizer : Assoc. Prof. Thewarach Laha, e-mail : thewa_la@kku.ac.th

Assist. Prof. Chatanun Eamudomkarn, e-mail : chatea@kku.ac.th