

Experimental Parasitology (MD647 703)
 Department of Parasitology, Faculty of Medicine, KKU
 Second Semester Academic year 2024

Lecture- Tuesday 10.00-11.00 : Parasitology meeting room 2

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

Date	Time	Topic	Lecturer
19-Nov-24	10.00 - 11.00	1. Course orientation Objective, teaching & learning processes, evaluation, research ethic	Thewarach Chatanun
26-Nov-24	10.00 - 11.00 13.00 - 17.00	3. Health GIS and mapping Demonstration and practice	Apiporn
3-Dec-24	10.00 - 11.00 13.00 - 17.00	4. Special staining of protozoa Demonstration and practice	Porntip Oranuch
17-Dec-24	10.00 - 11.00 13.00 - 17.00	5. Special staining of helminths Demonstration and practice	Chatanun
24-Dec-24	10.00 - 11.00 13.00 - 17.00	6. Cultivation of protozoa : <i>In vivo</i> and <i>in vitro</i> Demonstration and practice	Thidarut Porntip
7-Jan-25	10.00 - 11.00 13.00 - 17.00	7. Maintenance & cultivation of nematodes : <i>In vivo</i> and <i>in vitro</i> Demonstration and practice (<i>Trichinella</i>)	Oranuch
14-Jan-25	10.00 - 11.00 13.00 - 17.00	8. Maintenance & cultivation of platyhelminths: <i>In vivo</i> and <i>in vitro</i> Demonstration and practice	Apisit Apiporn
21-Jan-25	09.00 - 12.00	Midterm Examination (Topic 2-8)	Thewarach Chatanun
29-Jan-25	13.00 - 14.00 14.00 - 18.00	9. Artificial intelligence (AI) based diagnostics for parasitic diseases Demonstration and practice	Penchom
4-Feb-25	10.00 - 11.00 13.00 - 17.00	10. Molecular diagnosis for protozoa infection Demonstration and practice	Porntip
11-Feb-25	10.00 - 11.00 13.00 - 17.00	11. Serodiagnosis of tissue parasite infections Demonstration and practice (Western blot & ELISA)	Oranuch
18-Feb-25	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

Date	Time	Topic	Lecturer
25-Feb-25	10.00 - 11.00 13.00 - 17.00	13. Genetic markers in parasitology Demonstration and practice	Opal
4-Mar-25	10.00 - 11.00 13.00 - 17.00	14. Cloning and recombinant protein production for parasitology research Demonstration and practice	Thewarach Sujitra
11-Mar-25	09.00 - 12.00	Final Examination (Topic 9-14)	Thewarach Chatanun
18-Nov-25 7-Mar-25		Laboratory studies on special projects and report writing	Thesis advisor
7-Mar-25	09.00 - 16.30	Report submission (3 copies)	
14-Mar-25	09.00 - 12.00	Project presentation	Lecturers
21-Mar-25	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. Opal Pitaksakulrat
 Assist. Prof. Chatanun Eamudomkarn
 Dr. Apisit Chaidee

Guest Lecturer : Asst. Prof. Dr. Penchom Janwan, School of Allied Health Sciences, Walailak University
 Dr. Sujitra 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

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Second Semester Academic year 2024

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%
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2. Paper examination (contents from lecture and lab)

First examination : 21 Jan 2025 (topics 2-8) = 20 %

Second examination : 11 Mar 2025 (topics 9-14) = 20 %

3. Special project

Report submission : 7 Mar 2025

Project presentation : 14 Mar 2025

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