

Course Syllabus
MBMG 523 MSc Seminar
Academic Year 2024

Course ID and Name: MBMG 523 Molecular Genetics and Genetics Engineering Seminar

Course Coordinator: Ittipat Meewan, Ph.D.

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Instructors:

1. Prof. Dr. Apinunt Udomkit
2. Prof. Dr. Bantthit Chetsawang
3. Prof. Dr. Chalernporn Ongvarrasopone
4. Prof. Dr. Chanan Angsuthanasombat
5. Prof. Dr. Duncan R. Smith
6. Prof. Dr. Panadda Boonserm
7. Assoc. Prof. Dr. Surapon Piboonpocanun
8. Assoc. Prof. Dr. Chartchai Krittanaï
9. Assoc. Prof. Dr. Chalongrat Noree
10. Assoc. Prof. Dr. Kanokporn Triwitayakorn
11. Assoc. Prof. Dr. Nuanchan Chutabhakdikul
12. Assoc. Prof. Dr. M.L. Saovaras Svasti
13. Assoc. Prof. Dr. Sarin Chimnaronk
14. Assoc. Prof. Dr. Soraya Chaturongakul
15. Assoc. Prof. Dr. Sujira Mukda
16. Assoc. Prof. Dr. Vorasith Siripornpanich, M.D.
17. Asst. Prof. Dr. Alisa Tubsuwan
18. Asst. Prof. Dr. Alita Kongchanagul
19. Asst. Prof. Dr. Arthorn Sanpanich
20. Asst. Prof. Dr. Duangrudee Tanramluk
21. Asst. Prof. Dr. Jiraporn Panmanee
22. Asst. Prof. Dr. Kusol Pootanakit
23. Asst. Prof. Dr. Narisorn Kitiyanant
24. Asst. Prof. Dr. Natee Jearawiriyapaisarn
25. Asst. Prof. Dr. Phatchariya Phannasil
26. Asst. Prof. Dr. Poochit Nonejuie
27. Asst. Prof. Dr. Sirirat Kumarn
28. Asst. Prof. Dr. Sukonthar Ngampramuan
29. Dr. Chutima Thepparit
30. Dr. Duangnapa Kovanich
31. Er. Ekkaphot Khongkla
32. Dr. Kittiphong Paiboonsukwong, M.D.
33. Dr. Narisra Komalawardhana
34. Dr. Promsin Masrinoul
35. Dr. Siraprapa Boobphahom

Supporting Staff:

Credits: 2 (2-0-4)

Curriculum: Master of Science (M.Sc.) in Molecular Genetics and Genetic (required course)

Semester offering: First semester.

Pre-requisites: None

Course learning outcomes (CLOs):

On completion of the course, the students will be able to:	PLO1	PLO2	PLO3	PLO4	PLO5
Effectively search, analyze, and interpret research articles in molecular biology and related disciplines that are relevant to their thesis work		✓	✓		✓
Demonstrate scientific communication competency through research abstract writing and article presentation to peers	✓	✓	✓	✓	✓
Engage in professional, scientific discussions while demonstrating respect for diverse opinions and perspectives	✓	✓	✓	✓	✓

Course description

Research articles from scientific journals in molecular biology and other disciplines that are related to the research topic of the student; oral presentation techniques; Ethics in research citation; research discussion; answering questions

Course Schedule:

Room: C405

	Topics	Date/Time	Activities	Instructors
1	Scientific literature search for research	Mon, Dec 23 9.00-12.00	Lecture/Discussion	Ittipat Meewan
2	Writing clear scientific abstracts	Mon, Dec 23 13.00-16.00	Lecture/Discussion	Ittipat Meewan
3	Presenting scientific research to peers	Tue, Dec 24 9.00-12.00	Lecture/Discussion	Ittipat Meewan
4	Student presentation of two selected papers	Wed, Jan 15 13.00-13.35	Student presentation	All staffs
5	Student presentation of two selected papers	Wed, Jan 15 13.40-14.15	Student presentation	All staffs
6	Student presentation of two selected papers	Wed, Jan 15 14.20-14.55	Student presentation	All staffs
7	Student presentation of two selected papers	Fri, Jan 17 13.40-14.15	Student presentation	All staffs
8	Student presentation of two selected papers	Fri, Jan 17 13.40-14.15	Student presentation	All staffs
9	Faculty research presentation 1	Wed, Mar 5 13.00-15.30	Lecture/Discussion	TBA
10	Faculty research presentation 2	Wed, Mar 12 13.00-15.30	Lecture/Discussion	TBA
11	Faculty research presentation 3	Wed, Mar 19 13.00-15.30	Lecture/Discussion	TBA
12	Faculty research presentation 4	Wed, Mar 23 13.00-15.30	Lecture/Discussion	Ittipat Meewan
13	Student presentation of the research	Wed, Apr 23 13.00-13.45	Student presentation	All staffs
14	Student presentation of the research	Wed, Apr 23 13.50-14.35	Student presentation	All staffs

15	Student presentation of the research	Wed, Apr 23 14.40-15.25	Student presentation	All staffs
16	Student presentation of the research	Fri, Apr 25 13.00-13.45	Student presentation	All staffs
17	Student presentation of the research	Fri, Apr 25 13.50-14.35	Student presentation	All staffs
18	Class summary and after-action review	Fri, Apr 25 15.00-16.00	Lecture/Discussion	Ittipat Meewan

Alignment of teaching and assessment methods to course learning outcome:

Course learning outcome	Teaching method	Assessment method
1. Effectively search, analyze, and interpret research articles in molecular biology and related disciplines that are relevant to their thesis work	(1) Oral presentation (2) In-class discussion (3) Lecture	(1) Oral presentation (2) In-class discussion (3) Q&A (4) Evaluation
2. Demonstrate scientific communication competency through research abstract writing and article presentation to peers	(1) Oral presentation (2) In-class discussion (3) Lecture	(1) Oral presentation (2) In-class discussion (3) Q&A (4) Evaluation
3. Engage in professional, scientific discussions while demonstrating respect for diverse opinions and perspectives	(1) Oral presentation (2) In-class discussion (3) Lecture	(1) Oral presentation (2) In-class discussion (3) Q&A (4) Evaluation

Format:

1. Students who register for the MSc Seminar will present at least two current research articles (within 5 years) related to their thesis topic.
2. Students will give a presentation for 20 minutes, followed by approximately 15 minutes of answering questions from the audience.
3. Students will give a second presentation on their research topics for 30 minutes, followed by approximately 15 minutes of answering questions from the audience.
4. Students should discuss the topic of the presentation with their thesis advisor and send the title of the presentation, along with the information of the two selected publications, to the course coordinator at least 2 weeks before the scheduled presentation date.
5. Students are required to submit the abstract (200-250 words) of the presentation topic to the course coordinator 1 week before the scheduled presentation date.

Assessment Criteria:

Assessment method	Performance criteria	Scoring rubric
Participation	Class attendance and asking questions (20%)	1 = Unsatisfactory 2 = Needs improvement 3 = Average 4 = Above average 5 = Excellent
Presentation	Abstract (10%)	1 = Unsatisfactory 2 = Needs improvement 3 = Average 4 = Above average 5 = Excellent

	Seminar content, organization of the talk, quality of the presentation, slide quality, ability to communicate in English, etc. (40%)	1 = Unsatisfactory 2 = Needs improvement 3 = Average 4 = Above average 5 = Excellent
	Q&A Performance (10%)	1 = Unsatisfactory 2 = Needs improvement 3 = Average 4 = Above average 5 = Excellent

Date of Revision: 6 December 2024