

Course Syllabus

MBMG614 Analysis of Research Publications for Molecular Biosciences (2 credits)

Course coordinator: Assoc. Prof. Dr. Albert Ketterman

Instructors:

1. Albert Ketterman, Ph.D.
2. Chalongrat Noree, Ph.D.
3. Chanan Angsuthanasombat, Ph.D.
4. Duncan Smith, Ph.D.
5. Poochit Nonejuie, Ph.D.
6. Wipa Chungjatupornchai, Ph.D.

Curriculum: Doctor of Philosophy Program in Molecular Genetics and Genetic Engineering (required course for Plan 2)

Semester offering: First semester

Pre-requisites: None

Expected learning outcomes: After completion of the course, students should be able to:

- 1) Analytically evaluate current literature in molecular biosciences
- 2) Give brief oral presentations of scientific publications
- 3) Summarize scientific literature in written reports

Format:

One paper published within the last 2 years will be chosen by the teaching staff and given to the students one week prior to discussion. The discussion this paper will be led by the students. One week later the students will each give oral presentations of 15 minutes on the paper followed by questions from the teaching staff. Finally, the students will each write a 1,500 word report covering 2 papers assigned for the last 2 weeks. This report will be evaluated by the teaching staff and feedback given to the students for improvement. The overall goal of this course is to improve the student's ability to analyse scientific literature.

Evaluation:

Discussion of the paper (30%) – active participation in discussion

Oral presentation (30%) – organized presentation, quality slides, shows understanding of paper

Response to questions (20%) – logical reasoning, demonstrates knowledge of presented work

Written report (20%) – summary of the chosen papers, with major points discussed

Course schedule:

The course meets Tuesday 1000-1200. Room A401.

(Week) Date	Content	Hour	Staff
(1) 3 Sep	Orientation Pass out first paper	2	Albert
(2) 10 Sep	Paper #1: Discussion	2	Albert
(3) 17 Sep	Paper #1: Presentation	2	
(4) 24 Sep	Paper #2: Discussion	2	Poochit
(5) 1 Oct	Paper #2: Presentation	2	
(6) 8 Oct	Paper #3: Discussion	2	Duncan
(7) 15 Oct	Paper #3: Presentation	2	
(8) 22 Oct	Paper #4: Discussion	2	Chalongrat
(9) 29 Oct	Paper #4: Presentation	2	
(10) 5 Nov	Paper #5: Discussion	2	Chanan
(11) 12 Nov	Paper #5: Presentation	2	
(12) 19 Nov	Paper #6: Discussion	2	Wipa
(13) 26 Nov	Paper #6: Presentation	2	
(14) 3 Dec	Paper #7: Self Study	2	Report Preparation
(15) 9 Dec	Paper #7: Discussion	2	Albert (Course coordinator)

Revised Date: 2 September 2019