

**Institute of Molecular Biosciences
Mahidol University, Salaya Campus**

**Course Announcement
Semester II, Academic year 2016**

MBMG 504 Advanced Research skill in Molecular Biology: 2 (0-6-2) (2 Credits)

Course Description:

The course is designed for students to develop research skill, critical thinking, scientific integrity, and ethical awareness. Students will perform the experiments under the supervision of their tentative advisors. In the mean time, they will start to write the pre-thesis proposal which includes the preliminary data and have an oral presentation at the completion of the course.

Course objectives:

After completion of this course, the students will be able to:

1. acquire the advanced research skill in molecular biology,
2. develop critical thinking, scientific integrity and ethical awareness in performing research,
3. demonstrate their abilities to present the research by writing the proposal and giving an oral presentation.

Class Schedule: Jan 23rd, 2017 – May 19th, 2017

Course outlines:

Course orientation: Jan 23rd, 2017: How to write a proposal? Scientific integrity

Practical weeks: Jan 23rd, 2017– April 30th, 2017

Class meeting: February 20th, 2017: Review literature, proposal development, research update.

Submission proposal report: May 10th, 2017

Oral presentation: May 19th, 2017

Course evaluation:

- 1) Performance in the laboratory: 40%

(Ability to design the experiments, lab practical skill, responsibility, ethicality, attendance)

- 2) Proposal Report: 30%

- 3) Oral presentation: 30%

Presentation (total 30 min): Giving presentation: 15 min, answering questions: 15 min

Presentation evaluation:

- Seminar content (10%)
- Presentation style (10%): organization/ flow of the talk, slide quality, English proficiency, ethical awareness.
- Answering questions (10%): Knowledge, critical thinking

Instructors:

1. Assoc. Prof. Dr. Apinunt Udomkit
2. Assoc. Prof. Dr. Kanokporn Triwitayakorn
3. Asst. Prof. Dr. Kusol Pootanakit
4. Dr. Chalongrat Noree
5. Assoc. Prof. Dr. Chalernporn Ongvarrasopone

Course co-ordinator: Assoc. Prof. Dr. Chalernporn Ongvarrasopone

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