

**SCPA611 Seminar in Pathobiology I
&
SCPA614 Advanced Pathobiology I**

1st Semester, Academic Year 2018

**Department of Pathobiology
Faculty of Science, Mahidol University**

Course Syllabus

(Lecture-Lab-Self-study)

SCPA611 Seminar in Pathobiology I 1(1-0-2)

Presentation of research article in pathobiology or related fields including research rational and problem, experimental approach, criticism of the result, statistical analysis, and research ethics, discussion and suggestion

(Lecture-Lab-Self-study)

SCPA614 Advanced Pathobiology I 1(1-0-2)

Presentation of high impact research in pathobiology or medical science including research rational and problem, experimental approach, criticism of the result, statistical analysis, and research ethics, discussion and suggestion

Pre requisite	None
Type of Course	Required course
Session	2 nd Semester
Course Conditions	class size: None

Course Objectives

At the completion of the course, students should be able to:

1. Search the international publication in science.
2. Evaluate and analyze the quality of publication.
3. Discussion and synthesize the scientific research based on the qualified international publication.

Course Outline

Weeks	Topic	Hour			Instructor
		Lecture/ Discussion	Lab.	Self-study	
1	Course introduction and guidelines for an effective scientific presentation	2.5	-	5	YN
2	Meeting with seminar advisors	2.5	-	5	Staffs
3	1-Heavy metal toxicopathology	1	-	2	WJ/ANJ
4	2-Nanoparticle for therapeutic procedures	1	-	2	SB/PC
	3-Aging and regenerative science	1	-	2	SN/NC
5	4-Potential drug discovery	1	-	2	ANJ/SB
	5-Disease emergence and control	1	-	2	YN/NK
6	6-Cancer immunology	1	-	2	WP/PS
7	7-Hematopoietic disorders	1	-	2	PC/WJ
	8-Infectious diseases	1	-	2	NK/YN
8	9-Pathomechanisms of photoaged skin	1	-	2	NC/SN
	10-Free radicals and cancer	1	-	2	PS/WP
	Total	15	-	30	

Teaching methods

1. Lectures in class 2.5 hours.
2. Presentation and discussion in class 12.5 hours.
3. Students analyze and synthesize information from the international publications in journal citation report for 30 hours.

Teaching Media

1. Class handouts, Powerpoint presentation
2. The original articles in the international publications

Measurement and Evaluation of Students Achievement

1. Class attendance 5%
2. Job responsibility 15%
3. Class participation 25%
4. Pre-Quiz 5%
5. Presentation 50%
6. Student Examination Grade = A, B+, B, C+, C, D+, D, F

Course Evaluation

1. Students gain knowledge according to the course objectives.
2. Students give written course evaluation at the beginning of the class.
3. Students give oral presentation and discussion.
4. Evaluate students' satisfaction towards teaching and learning of the course using a questionnaire.
5. The lecturer will be notified with the result of the course evaluation from students to further improve the lecturing process.

Instructors

1. ANJ = Amornrat Naranuntarat Jensen
2. NC = Nisamane Charoenchon
3. NK = Niwat Kangwanrangsan
4. PC = Pornthip Chaichompoo
5. PS = Prasit Suwannalert
6. SB = Sebastian Punyaratabandhu Bhakdi
7. SN = Somphong Narkpinit
8. WJ = Wannee Jiraungkoorskul
9. WP = Witchuda Payuhakrit
10. YN = Yaowarin Nakornpakdee

Coordinator Lect.Dr. Yaowarin Nakornpakdee

Department of Pathobiology, Faculty of Science, Mahidol University

Tel: 02-201-5578 E-mail: yaowarin.nak@mahidol.ac.th

Lesson Plan

1. Topic	Course introduction
2. Name Lecturer	Dr. Yaowarin Nakornpakdee
Education	Ph.D. (Medical Microbiology)
Position	Lecturer
Contact	02-201-5578, Email: yaowarin-arin@hotmail.com
3. Course	SCPA611 Seminar in pathobiology I/SCPA614 Advanced Pathobiology I (1-0-2)
4. Programme Title	M.Sc. and Ph.D. in Pathobiology
5. Date and Time	September 6, 2018 at 09:00-11:30 AM
6. Topic Objective	At the completion of this unit the student will be able to
	<ol style="list-style-type: none"> 1. Clearly understand how to evaluate in seminar 2. Define the meaning of rational, hypothesis, objective, methodology, result, discussion and conclusion in scientific research
7. Topic Detail	
	<ol style="list-style-type: none"> 1. How to evaluation in seminar 2. The meaning of rational, hypothesis, objective, methodology, result, discussion and conclusion in scientific research
8. Learning Methods	Lecture and Group discussion
9. Teaching Media	Power point presentation, e-Learning online and handout
10. Teaching Equipment	Computer, Internet and LCD
11. Examination and Evaluation	Group discussion
12. Date of Improvement	August 20, 2018

Lesson Plan

1. Topic	Guidelines for an effective scientific presentation
2. Name Lecturer	Dr. Yaowarin Nakornpakdee
Education	Ph.D. (Medical Microbiology)
Position	Lecturer
Contact	02-201-5578, Email: yaowarin-arin@hotmail.com
3. Course	SCPA611 Seminar in pathobiology I/SCPA614 Advanced Pathobiology I (1-0-2)
4. Programme Title	M.Sc. and Ph.D. in Pathobiology
5. Date and Time	September 6, 2018 at 09:00-11:30 AM
6. Topic Objective	At the completion of this unit the student will be able to
	<ol style="list-style-type: none"> 1. How to prepare the power point for oral presentation 2. Effective scientific presentation
7. Topic Detail	
	<ol style="list-style-type: none"> 1. A scientific power point for oral presentation 2. Effective scientific presentation
8. Learning Methods	Lecture and Group discussion
9. Teaching Media	Power point presentation, e-Learning online and handout
10. Teaching Equipment	Computer, Internet and LCD
11. Examination and Evaluation	Group discussion
12. Date of Improvement	August 20, 2018

Lesson Plan

1. Topic	Oral presentation
2. Name Lecturer Education Position Contact	All instructors
3. Course	SCPA611 Seminar in pathobiology I/SCPA614 Advanced Pathobiology I (1-0-2)
4. Programme Title	M.Sc. and Ph.D. in Pathobiology
5. Date and Time	6 September – 29 November 2018 Every Thursday at 10:00-12:00 AM
6. Topic Objective	At the completion of this unit the student will be able to
	<ol style="list-style-type: none"> 1. Analyze rational, hypothesis, objective, methodology, result, discussion and conclusion of original articles 2. Effective scientific presentation by using the original articles in the international publication as model
7. Topic Detail	
	<ol style="list-style-type: none"> 1. Rational, hypothesis, objective, methodology, result, discussion and conclusion of original articles
8. Learning Methods	Lecture and Group discussion
9. Teaching Media	Power point presentation, e-Learning online and handout
10. Teaching Equipment	Computer, Internet and LCD
11. Examination and Evaluation	Group discussion
12. Date of Improvement	August 20, 2018