



COURSE SYLLABUS

Course: SEMINAR in TRANSLATIONAL PHYSIOLOGY
Code: SCPS 363 **Credit:** 2 (2-0-4)
Prerequisite: –
Academic year: 2021 **Semester:** 2nd

Course Co-ordinator: Dr. Chonlawan Saengjaroentham, Ph.D.
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Course Description

Explore diverse research articles in Physiology such as Neuroscience, Cancer, and other fields in biomedical science. Practicing on the techniques for analysing, criticizing, presenting key findings, research rationale, experimental approach in research articles.

Objectives

After completion of this course, students should be able to:

1. Evaluate physiological knowledge related to research articles
2. Discuss, critique, and analyze the research rationales, experiments, and key findings of research articles
3. Present the interested topic as seminar presentation and answer the questions showing integrative knowledge of physiology with related fields.

Course Organization

The course is divided into 3 parts as shown in the attached schedule. There will be the 4 session of lectures, 4 session of tutorial with instructors (2 student/instructor) and student seminar presentation (in pair). The student performance in the tutorial session will be evaluated by the responsible instructor based on an assessment rubric in evaluation form attached in the syllabus. The student performance in student seminar presentation will be evaluated by instructors attend on that day.

Teaching & Learning Methods

1. Hybrid: on-site and online using WebEx online lecture with recording

2. Tutorial session with instructors
3. Self-study
4. Presentation

Teaching media

Research articles in various fields based on students interested and guidance from instructors.

Classroom

All lectures and activities will be held at room Pr. 401. For 3 tutorial session, instructors can flexibly adjust the date and time.

Course Assessment

There are 3 parts of evaluation and as below and the weight score for each evaluation is detailed in the evaluation form and assessment rubric.

- Class Attendance (3 session): 5%
- Tutorial and discussion with PI (4 session): 35%
- Student seminar presentation*: 60%

* 30-minute presentation and 10-minute for question, students will work in a pair but will be evaluated individually.

Student achievement will be graded according to the faculty and university standard using the symbols: A, B⁺, B, C⁺, C, D⁺, D, and F.

List of Instructors

List of Instructors	E-mail
Assoc. Prof. Arthit Chairoungdua, PhD	arthit.chi@mahidol.ac.th
Assist. Prof. Witchuda Sangsawang, PhD	witchuda.san@mahidol.ac.th
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SCPS 363: Seminar in Translational Physiology 2(2-0-4)
 Academic Year 2020
 Department of Physiology, Faculty of Science, Mahidol University

Date	Time	Activity	Lecturer
22 March	1:00-4:00 PM (15-30 min)	Course orientation + Intro of research in the department	CS
29 March	9.00-12.00	Lecture: What is a good practice of 'Reading a Paper?'	WS
	1:00-4:00 PM	<p>What is a good practice of 'Reading a Paper?'</p> <p><i>Let's choose your selected paper and discuss with instructor</i></p> <p>Topic: tutorial with instructor</p> <ol style="list-style-type: none"> 1. Exercise (IP) 2. Fight with Cancer (NB) 3. Exploring the Brain (CS) 4. Metabolic Diseases (RA) 5. Stem cells Research (ST) 	* Tutorial with instructor
5 April	9.00-12.00 AM	Lecture: Training on paper Analysis and 'how to critique a paper'	AC
	1:00-4:00 PM	<p>Practice on paper Analysis with your interested topic</p> <p><i>Working on your selected paper and discuss with instructor</i></p>	* Tutorial with instructor
12 April	9.00-12.00 AM	Lecture: How to deliver a presentation for Seminar and question handling	KB
	1:00-4:00 PM	<p>Prepare a presentation for Seminar</p> <p><i>Prepare a presentation of your selected paper</i></p>	* Tutorial with instructor
19 April	9.00-12.00 AM	It's time for Rehearsal	All instructors in the course
	1:00-4:00 PM	<i>Practice for presentation with instructors' feedback</i>	
26 April	9.00-12.00 AM	Student Seminar Presentation	All lecturers attend for the evaluation
	1:00-4:00 PM	Pitching the ideas of aging innovation (KB)	All lecturers attend for the evaluation

*Tutorial with instructor (3 sessions) can be arranged either on-site or online base on dates and times for you and students.

Evaluation form for tutorial and discussion (35%)

SCPS 363 Seminar in Translational Physiology, Academic Year 2020

Student's name: Student ID:

Evaluator: Date:

Assessment rubric for tutorial and discussion

Performance Assessment	Poor (1)	Fair (2)	Good (3)	Excellent (4)
Preparation 15%	-Lack of preparation in advance for the discussion	-Insufficient preparation for the discussion	Sufficient preparation for the discussion	-Well preparation for discussion -Having questions or initiate discussion on the related topics
Participation 15%	-No contribution & discussion -No response to direct questions	-Rarely active with contributions & discussion -Occasionally volunteers in response to direct questions	-Mostly active with critique, analysis, and discussion -Asking questions & response to direct questions	-Proactive with critique, analysis, discuss, and contribution -Initiate discussion on the related topics
Listener Skills 5%	-Not listen to others -Nonresponsive comment to discussion	-Occasionally listens carefully -Infrequently comments to discussion	-Appropriate listener -Appropriate response to others	-Good listener without inappropriate interruption -Expand response to others

Performance Quality Factor (PQF): Excellent = 4, Good = 3, Fair = 2, Poor = 1

Category	Weight Factor (WF)	PQF	WF x PQF (%)
Preparation	15%		
Participation	15%		
Listener Skills	5%		

(Sum of WF x PQF)/4 =

Comment:

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Evaluation form for Student Seminar Presentation (60%)

SCBM 363 Seminar in Translational Physiology, Academic Year 2020

Student's name: Student ID:

Evaluator: Date:

Assessment Rubric for Student presentation

	Poor (1)	Fair (2)	Good (3)	Excellent (4)
Slide Preparation (15%)	Slides do not support the topic - Citations are inadequate and inappropriate	- Slides partially support the research topic - Citations are insufficient	- Slides mostly support the research topic - Citations are proper	- Slides entirely support the research topic - Citations are Complete
Presentation (20%)	-No eye contacts -Inappropriate speed of speaking -Frequent mispronunciation	-Rarely eye contact with audience -Irregular speed of speaking -Some mispronunciations	Eye contact with audience in the important points -Appropriate speed of speaking -Some mispronunciations	Eye contact and fully engage with audience -Minimal mispronunciations
Organization (20%)	-Insufficient and disorganized information	- Contain most of the information - Inappropriate sequential information	- Contain all important information - Logical sequential information	- Fully engage and well-organized with information - Explain the key results clearly
Question handling (5%)	Rarely answer questions	Answer some questions	Answer most questions	Answer questions effectively & elaborate with integrative view

Performance Quality Factor (PQF): Excellent = 4, Good = 3, Fair = 2, Poor = 1

Category	Weight Factor (WF)	PQF	WF x PQF (%)
Slide Preparation	15%		
Presentation	20%		
Organization	20%		
Question handling	5%		

(Sum of WF x PQF)/4 =

Comment:

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