



## COURSE SYLLABUS

**Course:** SEMINAR in TRANSLATIONAL PHYSIOLOGY  
**Code:** SCPS 363 **Credit:** 2 (2-0-4)  
**Prerequisite:** –  
**Academic year:** 2024 **Semester:** 2<sup>nd</sup>

**Course Co-ordinator:** Dr Chonlawan Saengaroentham, PhD  
**Room:** Pr408, Department of Physiology, Faculty of Science, Mahidol University  
**Phone:** 02-201-5514 **E-mail:** chonlawan.sae@mahidol.ac.th

### Course Description

Explore diverse research articles in Physiology such as Neuroscience, Cancer, and other fields in biomedical science. Practising techniques for analysing, criticizing, presenting key findings, research rationale, and experimental approaches 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 interesting topic as a 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 3 sessions of lectures, 5 sessions of tutorials with instructors (2 students/instructor) and a student seminar presentation. The student performance in the tutorial session will be evaluated by the responsible instructor based on an assessment rubric in the evaluation form attached to the syllabus. The student performance in the student seminar presentation will be evaluated by instructors who attend on that day.

### Teaching & Learning Methods

1. On-site lectures

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

### Teaching media

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

### Classroom

All lectures and activities will be held at room Pr408. For 5 tutorial sessions, instructors can flexibly adjust the date and time on the same schedule week.

### 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.

- Assignment: Lab rotation 10%, Paper analysis 25%
- Tutorial and discussion with instructors: 30%
- Student seminar presentation: 30% \*
- Attendance: 5% \*\*

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

\*\* Students are encouraged to seminar presentation by asking questions and initiating the discussion related to the presentation

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

### List of Instructors

List of Instructors	E-mail
Prof. Narattaphol Charoenphandhu, MD PhD	narattaphol.cha@mahidol.ac.th
Assoc. Prof. Arthit Chairoungdua, PhD	arthit.chi@mahidol.ac.th
Asst. Prof. Kanit Bhukhai, PhD	kanit.bhu@mahidol.ac.th
Dr. Metaneeya Pihanthanonond, PhD	metaneeya.pil@mahidol.ac.th
Dr. Chonlawan Saengjaroentharn, PhD	chonlawan.sae@mahidol.ac.th

SCPS 363: Seminar in Translational Physiology 2(2-0-4)

Academic Year 2024

Department of Physiology, Faculty of Science, Mahidol University

Course Coordinator: Chonlawan Saengjaroentham, Ph.D.

Date	Time	Activity	Lecturer
Tue 14 Jan	9.00-12.00 AM	Course orientation L1: What is a good practice of 'Reading a Paper?	Chonlawan Narattaphol
Tue 28 Jan	9.00-12.00 AM	L2: Training on paper Analysis and 'how to critique a paper'	Arhit
Tue 11 Feb	9.00-12.00 AM	Lab rotation: Assignment: summarize research interest of each lab	Pls
Tue 25 Feb	9.00-12.00 AM	L3: How to deliver a presentation for Seminar and question handling	Kanit
<b>3-7 March Mid-term Examination</b>			
Tue 18 Mar	9.00-12.00 AM	T1: What is a good practice of 'Reading a Paper? <i>Let's choose your selected paper and discuss with instructor.</i>  <i>Topic: tutorial with instructor</i> <ol style="list-style-type: none"><li>Exploring the Brain (CS)</li><li>Rehabilitation technologies (MP)</li></ol>	Tutorial with instructor
*Thu 12 Mar	1.00-4.00 PM	T2: Practice on paper analysis with your interested topic <i>Working on your selected paper and discuss with instructor</i>	Tutorial with instructor
*Thu 3 Apr	1.00-4.00 PM	T3: Practice on critique paper with your interested topic <i>Working on your selected paper and discuss with instructor</i> Assignment: worksheet for paper analysis	Tutorial with instructor
Tue 8 Apr	1.00-4.00 PM	T4: Prepare a presentation for Seminar <i>Prepare a presentation of your selected paper</i>	Tutorial with instructor
*Thu 10 Apr	1.00-4.00 PM	T5: It's time for Rehearsal <i>Practice for presentation with instructors' feedback</i>	Tutorial with instructor
Tue 22 Apr	9.00-12.00 AM	Student Seminar Presentation	Department lecturers attend for the evaluation

\*Tutorial with instructor (T1-T5 sessions) can be arranged on Thursdays 13:00-16:00 on the same week if instructors are not available on the schedule.

Evaluation form for tutorial and discussion (30%)

SCPS 363 Seminar in Translational Physiology, Academic Year 2024

Student's name: ..... Student ID: .....

Evaluator: ..... Date: .....

Assessment rubric for tutorial and discussion

Performance Assessment	Poor (1)	Fair (2)	Good (3)	Excellent (4)
<b>Preparation</b> 10%	-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 initiating discussion on the related topics
<b>Participation</b> 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, discussion, and contribution -Initiate discussion on the related topics
<b>Listener Skills</b> 5%	-Not listen to others -Nonresponsive comment to the discussion	-Occasionally listens carefully -Infrequently comments on the 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	10%		
Participation	15%		
Listener Skills	5%		

(Sum of WF x PQF)/4 = .....

Comment: .....

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Evaluation form for Student Seminar Presentation (30%)

SCBM 363 Seminar in Translational Physiology, Academic Year 2023

Student's name: ..... Student ID: .....

Evaluator: ..... Date: .....

Assessment Rubric for Student presentation

	Poor (1)	Fair (2)	Good (3)	Excellent (4)
<b>Slide Preparation (5%)</b>	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
<b>Presentation (10%)</b>	-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
<b>Organization (10%)</b>	-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
<b>Question handling (5%)</b>	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	5%		
Presentation	10%		
Organization	10%		
Question handling	5%		

(Sum of WF x PQF)/4 = .....

Comment: .....

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