Course Syllabus

1. Program
   Master of Science Program in Physiology
   (International Programs)

   Faculty/Institute
   Faculty of Science and Faculty of Graduate Studies

2. Course Code
   SCPS 606

   Course Title
   Seminar in Physiology 1

3. Credit
   1(1-0-2)Credits(Lecture-Lab-Self study)

4. Prerequisite
   SCPS 631

5. Type of Course
   Required course

6. Session/Academic Year
   Semester 2

7. Course Conditions
   class size:- minimum 5 , maximum 20

8. Course Description
   Students participate in the presentation and discussion of current research and selected topics in physiology and other related fields of life sciences. Speakers also include Faculty members and invited speakers.

9. Course Objectives
   After successful completion of this course, students will be able to
   1. Plan and prepare for the presentation of the seminar including choosing the original research article in the field of physiology, reading and analyzing the data, consulting the expert, decision making regarding the resources for further readings, and writing the abstract.
   2. Explain, interpret, discuss, criticize and summarize the published articles presented based on the student's basic knowledge.
   3. Answer questions from the audience regarding the article as well as the related fields.
   4. Use the multimedia instruments for academic presentation.
10. Course Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Hours</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Skeletal muscle fiber size and function in elderly.</td>
<td>1</td>
<td>Tossaporn</td>
</tr>
<tr>
<td>2</td>
<td>A new cross-talk pathway between the renal tubule and its own glomerulus</td>
<td>1</td>
<td>Varanuj</td>
</tr>
<tr>
<td>3</td>
<td>Involvement of AKAP (A Kinase Archoring Protein) in recycling and networking of the 1-adrenergic receptor.</td>
<td>1</td>
<td>Jonggonnee</td>
</tr>
<tr>
<td>4</td>
<td>Adaptive response of organic anion transporter during cholestasis.</td>
<td>1</td>
<td>Surawat</td>
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<tr>
<td>5</td>
<td>Novel role of the vitamin D receptor in maintaining the integrity of the intestinal mucosal barrier.</td>
<td>1</td>
<td>Narattaphol</td>
</tr>
<tr>
<td>6</td>
<td>Central insulin action regulates peripheral glucose and fat metabolism in mice.</td>
<td>1</td>
<td>Vitoon</td>
</tr>
<tr>
<td>7</td>
<td>Deoxybenzoins are novel potent selective estrogen receptor modulators.</td>
<td>1</td>
<td>Pawinee</td>
</tr>
<tr>
<td>8</td>
<td>Interaction and functional interference of glucocorticoid receptor and SOCS1</td>
<td>1</td>
<td>Nateetip</td>
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11. Teaching Methods

All courses / topics are teaching / presenting in English.
1. Interesting original articles in various fields of toxicology will be selected and provided by experts.
2. The students will choose the published scientific paper according to an individual interest.
3. Schedule for presentation will be assigned.
4. The student will be evaluated by staff for their attendance, preparation of the seminar, presentation and handling of the question in class.

12. Teaching Media

Abstract, Handout, Computer, and LCD projector
13. Measurement and Evaluation of Student Achievement

1. Self Performance 80%
   - Presentation
   - Discussion, comment and suggestion
   - Abstract

2. Active participation in class 20%

Total 100%

At the end of course, the coordinator and staff members will meet for decision of the final grade.

<table>
<thead>
<tr>
<th>RANGE</th>
<th>GRADE</th>
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<tbody>
<tr>
<td>100% - 85%</td>
<td>A</td>
</tr>
<tr>
<td>&lt; 85% - 75%</td>
<td>B+</td>
</tr>
<tr>
<td>&lt; 75% - 65%</td>
<td>B</td>
</tr>
</tbody>
</table>

13. Course Evaluation

1. Student gain knowledge according to the course objectives.
2. Student permanent will be evaluating at the end of the course.
3. Student performance will be notified with the result of the evaluation from audience and teacher to further improve the lecturing process.

14. References

Related material according to the presentation.

15. Instructors

Staff of Physiology Department

16. Course Coordinator

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