SCBM 345
Cancer Biology

Semester 2/2017

Department of Pathobiology
Faculty of Science
Mahidol University
Course Syllabus

(Lecture-Lab-Self study)

SCBM 345 Cancer Biology 1(1-0-2)

Malignant tumor, Cancer invasion and metastasis, Carcinogenesis and carcinogenic agents, Molecular basis of cancer, Identification and histopathology of cancer, Chemotherapy and the development of novel therapeutics, Experimental models for cancer research

Prerequisite

None

Type of Course

Elective course

Session

2nd Semester

Course Conditions

class size: None

Course Objectives

At the completion of this course, students should be able to describe and discuss in the topics of:

1. Characteristics of cancer
2. Mechanisms of cancer invasion and metastasis
3. Carcinogenesis and carcinogenic agents
4. Molecular basis of cancer
5. Identification and histopathology of cancer
6. Chemotherapy and the development of novel therapeutics
7. Experimental models for cancer research
## Course Outline

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
<th>Lecture/Discussion</th>
<th>Lecturer</th>
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<tbody>
<tr>
<td>20 April</td>
<td>9.00-10.00</td>
<td>Introduction to cancer</td>
<td>L1</td>
<td>PS</td>
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<td></td>
<td>10.00-12.00</td>
<td>Benign and malignant tumors</td>
<td>L2</td>
<td>PS</td>
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<td>25 April</td>
<td>10.00-12.00</td>
<td>Identification and histopathology of cancer</td>
<td>L3</td>
<td>SN</td>
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<tr>
<td>27 April</td>
<td>10.00-12.00</td>
<td>Carcinogenesis and carcinogenic agents</td>
<td>L4</td>
<td>PS</td>
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<td>18 May</td>
<td>9.00-12.00</td>
<td>Midterm Examination L1-L4</td>
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<tr>
<td>2 May</td>
<td>10.00-12.00</td>
<td>Molecular basis of cancer</td>
<td>L5</td>
<td>WP</td>
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<tr>
<td>4 May</td>
<td>10.00-12.00</td>
<td>Mechanisms of cancer invasion and metastasis</td>
<td>L6</td>
<td>WP</td>
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<td>9 May</td>
<td>10.00-12.00</td>
<td>Chemotherapy and the development of novel therapeutics</td>
<td>L7</td>
<td>SN</td>
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<td>11 May</td>
<td>10.00-12.00</td>
<td>Experimental models for cancer research</td>
<td>L8</td>
<td>NK</td>
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<td>25 May</td>
<td>9.00-12.00</td>
<td>Final Examination L5-L8</td>
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### Teaching methods

1. Lecture and discussion in class 15 hours

### Teaching Media

1. Handouts
2. Power point presentation
3. Research article
Measurement and Evaluation of Students Achievement

1. Participation, Discussion, Assignment Report = 30%
2. Written Examination = 70 %
3. Grade Distribution = 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 end of the course.
3. Evaluate students’ satisfaction towards teaching and learning of the course using a questionnaire.
4. The lecturer will be notified with the result of the course evaluation from students to further improve the lecturing process.

References


Instructors

1. NK = Niwat Kangwanrangsan, Ph.D
2. PS = Assistant Professor Prasit Suwannalert, Ph.D
3. SN = Somphong Narkpinit, M.D.
4. WP = Witchuda Payuhakrit, Ph.D

Coordinator

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