

SCBM 345
Cancer Biology

Semester 2/2018

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	2 nd 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

Date	Time	Topic	Lecture/ Discussion	Lecturer
*Wed 10 Apr	13.00-14.00	Introduction to cancer	L1	PS
	14.00-16.00	Benign and malignant tumors	L2	PS
Fri 19 Apr	10.00-12.00	Identification and histopathology of cancer	L3	SN
Wed 24 Apr	10.00-12.00	Carcinogenesis and carcinogenic agents	L4	PS
Fri 26 Apr	9.00-12.00	Midterm Examination L1-L4		
Wed 1 May	10.00-12.00	Molecular basis of cancer	L5	WP
Fri 3 May	10.00-12.00	Mechanisms of cancer invasion and metastasis	L6	WP
Wed 8 May	10.00-12.00	Chemotherapy and the development of novel therapeutics	L7	SN
Fri 10 May	10.00-12.00	Experimental models for cancer research	L8	NK
Wed 22 May	9.00-12.00	Final Examination L5-L8		
			15 hr	

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

1. Robert A. Weinberg. The Biology of Cancer 2nd Edition. 2013.
2. Vinay Kumar, Abul K. Abbas, Jon C. Aster. Robbins Basic Pathology 9th Edition. 2013.

Instructors

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

Coordinator

Associate Professor Prasit Suwannalert, Ph.D

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Requesting an appeal

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