

102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	腫瘤生物學	Serial No. / ID	0555 / MBI4002
Dept.	分子生物科技學系	School System / Class	大學日間部4年1班
Lecturer	蔡孟峰	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	Yes
Time / Place	(一)34 / J216 (二)2 / J306	Language	Chinese

Introduction

The purpose of this course is to increase your knowledge of the principles of cancer biology with a background in cellular and molecular biology. The course addresses the following questions: What is cancer,. What causes cancer, How does cancer progress. The lectures include: DNA structure and stability, oncogenes and tumor suppressor genes, apoptosis, and metastasis. The focus of this course is on the basic science and research of cancer, with a particular emphasis on the exciting new treatment options that are emerging from the biotechnology and pharmaceutical industries.

Outline

1. What is cancer
2. DNA Mutations vs. Repair
3. Growth Factor Signaling and Oncogenes
4. Growth Inhibition and Tumor Suppressor Genes
5. Apoptosis
6. Metastasis
7. Cancer in the future: focus on diagnostics and immunotherapy

Prerequisite

1. Biology
2. Molecular cell biology