SYLLABUS (tentative) and more!
BIMM 134: Biology of Cancer Spring 2024

Lecture: Tuesday/Thursday 9:30am-10:50am. Galbraith hall room 242
Discussion session: M1:00pm-1:50p RCLAS
Instructor: Michael Burg, Ph.D. mburg@ucsd.edu

Office and Office Hours: TBD

Note: Attendance to lectures/discussions not mandatory; Lectures will be videocast (however sometimes they don't work)…you will learn more and have a more positive experience if you attend lectures)

BOTH EXAMS *MUST* BE IN PERSON AT THE DESIGNATED DAY,TIME,LOCATION

Course Description: This course covers basic processes of transformation and tumor formation in a two-part format. The first section is focused on molecular and cellular mechanisms of carcinogenesis. The second section discusses tumor pathology and metastasis. Open to upper-division students only. ***Prerequisites:*** BILD1

Recommended Texts, Materials and Web-Enhancement

TEXTBOOKS ARE NOT REQUIRED!!!!! TEXTBOOKS ARE NOT REQUIRED!!!!!
I may use some material for these souces..but again not required

- Molecular Biology of Cancer: Mechanisms,Targets and Therapeutics;Lauren Pecorino;4th edition(2016)
- The Biology of Cancer;Weinberg;2nd Edition(2014. Lectures will be, in part based upon topics covered in these texts. These are available on reserve at Geisel Library
- ***Some additional readings will be provided via Canvas***
- All powerpoint lectures,associated handouts, and other relevant material are available ***via Canvas***
- *Check for announcements on Canvas*
- *Instructional Assistants/Tutors: Names,sections, and contact information will be posted* ***via Canvas***

Attendance, class ethics, and additional considerations

1. Exams will be based upon material in class, assigned science articles;

1- **Academic dishonesty and plagiarism (the unauthorized or uncredited use of someone else's work) will result in a grade of "F" for the assignment. Its continued practice will be reported to the appropriate deans for possible disciplinary action and may result in an "F" for the course.**

2-

Extra Credit: 4 extra points for >80% SET response rate

Exams and other assignments

1. There will be two exams (midterm 100pts; final 150pts) on the material stipulated in the study sheets, text reading, supplementary readings and videos and lectures. All exams count; **You must take all exams during the scheduled times.**. Exams will include both multiple choice and short answer 2.There will be several written assignments (worth total around 100-150 pts) on material to be explained later

Letter grades will be assigned as follows:

GRADING

Your grade is based upon a percentage of the total points you accumulate during the semester.

A^+ = 99% - 100% of the total possible points
A= 90% - 98.9% of the total possible points
B^+ = 89% - 89.9% of the total possible points
B = 80% - 88.9% of the total possible points
C^+ = 79% - 79.9% of the total possible points
C = 70% -78.9% of the total possible points
D = 60% -69.9%of the total possible points
F = Less than 60% of the total possible

Tentative Lecture Schedule (***Subject to change)***

WEEK	Date	Lecture Topic	Pecorino Chapter (Weinberg Biology cancer in para)
1	4/2 4/4	Lecture 1: Introduction Lecture 2: Oncogenes:Cell signaling Ras/MAPK/others	1 (2) + supplemental pdfs
2	4/9 4/11	Lecture 3:Oncogenes: Myc/BCR/ABL Lecture 4: Oncogenes: Therapeutics	4 (4-6) + supplemental pdfs
3	4/16 4/18	Lecture 5:Tumor suppressor: Rb and cell cycle Lecture 6:Tumor suppressor: P53;Tumor suppressor: Therapeutics	5-6 (7-9) + supplemental pdfs
4	4/23 4/25	Lecture 7: Apoptosis Lecture 8: Apoptosis	
5	4/30 5/2	*Review for exam* **EXAM 1**	
6	5/7 5/9	Lecture 9: Cancer Immunology Lecture 10 Cancer Immunology	
7	5/14 5/16	Lecture 11: Angiogenesis Lecture 12: Angiogenesis	
8	5/21 5/23	Lecture 13:Metastasis Lecture 14: Metastasis	
9	5/28 5/30	Lecture 15: *Cancer models and experimental methods* Lecture 16: : *Cancer models and experimental methods*	
10	6/4 6/6	*TBD* TBD	supplemental pdfs
Final: Tu	6/11	**Final** 8am-10:59 AM	