MCB50 Spring 2014

Immunity and Disease

This class will provide students with the fundamentals of immunology to better understand current topics in infections, immunological diseases and public health. We will learn how the immune system works to prevent, resolve, or exacerbate disease. A general overview of the immune system (including cell types and functions) will be covered in the beginning in order to demonstrate how immunology research examines the mechanisms of disease in order to prevent infections and illness. We will spend the last two-thirds of the class focusing on specific diseases with immunology relevance. No laptop computers or tablets are allowed during class.

You will not receive credit for this class if you have <u>previously</u> taken MCB100A or MCB102! However, you can receive credit for MCB100A or MCB102 or MCB150 <u>after</u> taking this class.

Instructor: Robert Beatty, Ph.D. 642-0671 prbeatty@berkeley.edu
Office Hour: Fridays 2-3 pm 176 LSA

GSIs Zhan Zhao zhanzhao@berkeley.edu
Angelia Wang wangelia@berkeley.edu
Matthew Gardner gardnerm@berkeley.edu

Lectures: MWF 10 am -11 am 101 Morgan

There is a reader that includes lecture outlines for the entire semester.
<u>The readers are available from Copy Central 48 Shattuck Square at University Avenue.</u>

Sections:	101	Tuesday	1 - 2 pm	2030 VLSB	Angelia
	102	Tuesday	4 - 5 pm	2062 VLSB	Zhan
	103	Wednesday	12 - 1 pm	2011 VLSB	Matthew
	104	Wednesday	2 - 3 pm	2011 VLSB	Matthew
	105	Wednesday	3 - 4 pm	2011 VLSB	Zhan
	106	Thursday	11-12 noon	125 LKS	Angelia

Section attendance: Sections will alternate between class review and discussion articles. There is a short reader for this class containing 5 discussion articles covering various topics. Attendance in section is required for discussion and poster presentation meetings. The discussion articles are to be read prior to section. Answers to the questions for each discussion paper is worth 10 points. These questions are to be done IN SECTION and handed in at the end of section.

Poster Presentations in section. Students will be required to work on a poster describing an important vaccine issue for infectious diseases found in humans. Presentations will be done in groups of 4-5 students and will be presented during discussion sections in April.

Text: There is no required textbook for this class. The following books can be used as resources.
Immunology at a Glance by Playfair and Chain. 10th edition,
"Review of Medical Microbiology and Immunology" Levinson. 11th edition.

Exams/Grading:

Midterm examinations will be given during class time and the final examination will be given at the scheduled time during exam week. The questions will be multiple choice, matching, short answer and long answer. Grades will be awarded based on a curve.

iClicker points	30 points
Discussion questions in section	50 points
Midterm I	100 points
Midterm II	100 points
Poster presentation on vaccines	70 points
Final Exam	150 points
Total	500 points

UC Berkeley Honor Code. The UC Berkeley community has adopted an Honor Code with the expectation that you will act with honesty, integrity and respect to others. Anyone caught cheating on an exam in this course will receive a failing grade in the course and will also be reported to the University Center for Student Conduct.