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Fall 9-1-2001

### MICB 410.01: Immunology

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# MICB 410 Immunology

Autumn Semester, 2001

Class meets 9:10-10:00 am; M,W, F in HS 411  
Professor: Dr. Mike Minnick (HS 509; tel. no. 243-5972)  
Textbook: Kuby Immunology, Fourth Ed.

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<u>Date</u>	<u>Lecture Topic</u>	<u>Chapter(s)</u>
<b><u>September</u></b>		
5	Introduction	1
7	Innate versus acquired immunity	1
10	Phagocytosis	2
12, 14	Anatomy of lymphoid tissue	2
17	Inflammation	15
19, 21	Antigens & epitopes	3
24, 26, 28	Antibodies	4-6
<b><u>October</u></b>		
1	<b><u>Test 1</u></b>	
3	Antibodies (cont.)	4-6, 23
5, 8	Complement	13
10, 12	Cellular players & development	2,10, 11
15, 17	Immune response	8, 9
19	Cytokines	12
22, 24	MHC complex	7
26	Transplantation & rejection	21
29	<b><u>Test 2</u></b>	
31	Tolerance & suppression	10, 11
<b><u>November</u></b>		
2	Tolerance & suppression (cont.)	10, 11
5	Transfusions	16
7, 9	Vaccines / immunotherapy	18
12	<b>Holiday- No class</b>	
14	Vaccines / immunotherapy (cont.)	18
16	Hypersensitivity I / <b>Colloquy #1 DUE</b> at 5 pm	16
19	Hypersensitivity I	16
21, 23	<b>Holidays- No class</b>	
26, 28	Hypersensitivity II & III	16
30	Hypersensitivity type IV	14, 16
<b><u>December</u></b>		
3	<b><u>Test 3</u></b>	
5	Hypersensitivity type IV (cont.)	14, 16
7, 10	Cancer / tumor immunology	22
12	Autoimmune disease	20
14	Immunodeficiency / <b>Colloquy #2 DUE</b> at 5 PM	19
18	<b><u>FINAL</u></b> - (8:00 -10:00 am)	

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**GRADING** - 3 lecture exams (100 pts each), a final (150 pts; composed of 100 pts from lecture material following third exam, plus 100 pts comprehensive), and a colloquy (100 pts) will be used to evaluate your progress in immunology. Total points possible in the lecture are 550. 90%, 80%, 70%, and 60% of the total points represent the cutoff points for an A, B, C, and D, respectively. Late colloquies are discounted 10% of total points per day of tardiness.

**EXAMS** - Excuses for missing or rescheduling exams must be cleared prior to the exam times. Anyone missing the final exam will receive an "F" for the course. Cheating on exams will also result in an automatic F for that examination.

**MICB 410 Immunology**  
Autumn Semester, 2001

COLLOQUY

**DUE DATES-** Colloquy #1- Friday, November 16; 5:00 pm (All students)  
Colloquy #2- Friday, December 14; 5:00 pm (Grads & re-writes)

**Directions:** Choose a 2000 **research** article in immunology that interests you, read it in depth, and write a synopsis. The synopsis is basically a condensed summary of the article in **your own words**. Do **not** write a synopsis on a review article or a general topic. You must include a copy of the original research article when you submit your colloquy.

**Access:** Research articles can be found in a variety of journals including *Science*, *Immunology*, *Journal of Immunology*, *Infection and Immunity*, etc., in the Mansfield Library. You may scan articles in the journals or search the MEDLINE database on the CD-ROM stations in the library, for particular key words or subjects that interest you (e.g., immunogenetics, transplantation, cell-mediated immunity, etc.). Remember, if there is no immunology in the article, it is not suitable for this assignment.

**Format:** The format is as follows:

- 4 full pages double-spaced and typed.
- Begin with a brief introduction of the topic, goals of the research, etc.
- Follow this section with a discussion of the experimental approach, and justification, but don't go into detail on the individual protocols employed. Why did they use immunofluorescence? Why did they do a mixed lymphocyte reaction? etc.
- Finally, discuss the results and how they support the author(s)' conclusions. If you do not agree with the authors, please expound. How could the paper be improved?
- Discuss the significance of the paper to immunology.

**Grading:** 100 pts will be given based upon writing clarity, grammar, conforming to format above, overall flow of logic and how well the article is summarized. A 10% reduction in points per day will be penalized for tardy colloquies. Plagiarism will result in an automatic F for the assignment, so don't use the authors' words.

**Purpose:** To introduce prospective scientists to literature-searching and contemporary research in immunology

**Assignments: Undergraduates must complete Colloquy #1.** The assignment will be corrected and returned. If you are satisfied with the grade on colloquy #1 you can ignore the second colloquy due date. However, if you are not happy with the colloquy #1 grade, you may do a second colloquy on **another** article and turn it in by the Colloquy #2 due date. The better grade of the two assignments will be used to calculate your final grade.

**Graduate students will prepare two colloquies on two separate articles.** The due dates are as indicated in the syllabus. Each graduate colloquy is worth 50 points.