

Instructor: Hua Shen, Ph.D.

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Office Hours: 3-5pm MTWR; 8-9am TW by appointment

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**Reading materials:** Journal publication.

**Course description:**

An advanced treatment of current theory and its application to various aspects of immunology; antibody specificity, antigen antibody reactions, immediate and delayed hypersensitivity, immunological tolerance and autoimmunization are among the topics covered.

**Tests:** There are two scheduled tests, each worth 30%. Class participation worth 40%. These add to a total of 100%.

**Grade calculation:** Grade Scale: 100-90% A, 89-80% B, 79-70% C, 69-60% D, <60 F.

**Class attendance**

Attendance to all discussions is expected of all students. Three unauthorized absences are allowed. Absence beyond the authorized limit will result in lowered letter grade.

**Advanced Immunology, Discussion Schedule (tentative)**

Week	Dates	Discussion Topics
1	Jan. 12	Introduction Inflammation
2	Jan. 19	<i>Martin Luther King, Jr. Birthday, University close</i>
3	Jan. 26	Inflammation
4	Feb. 2	Antibody-antigen interactions
5	Feb. 9	Cellular immunity
6	Feb. 16	Complement system
7	Feb. 23	Vaccines
8	Mar. 1	<b>Midterm</b>
9	Mar. 8-12	<i>Spring Break</i>
10	Mar. 15	Hypersensitive Reactions
11	Mar. 22	Autoimmunity
12	Mar. 29	Transplantation Immunity

13	Apr. 5	Immunity of disease-1
14	Apr. 12	Immunity of disease -2
15	Apr. 19	Immunity of disease -3
16	Apr. 26	Immunity of disease -4
	<i>May 3</i>	<i>Final Exam</i>

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## **BIBLIOGRAPHY**

Tizard, 1995. Immunology: An Introduction, 4<sup>th</sup> ed. 1995 Publisher: Saunders

Kuby, J., 2003. Immunology, 5<sup>th</sup> ed., W.H. Freeman Co., New York.

Benjamani, E., Sunshine, G., Leskowitz, S. 1996. Immunology: A short course, 3<sup>rd</sup> ed. Wiley-Liss, Inc., New York.

Janeway, C. and Travers, P. 1996. Immunobiology: The Immune System in Health and Disease, 2<sup>nd</sup> ed., Garland Publishing Co., New York.

Richard A. Goldsby, Thomas J. Kindt, Barbara A. Osborne and Janis Kuby 2003. Immunology 5<sup>th</sup> Ed. Freeman

## **USEFUL WEB SITES**

<http://www.aaaai.org>

The American Academy of Allergy Asthma and Immunology site includes an extensive library of information about allergic diseases.

<http://12.17.12.70/aaai.default.asp>

The Web site of the American Association of Immunologists contains a good deal of information of interest to immunologists.

<http://www.ncbi.nlm.nih.gov/PubMed/>

PubMed, the national Library of Medicine database of more than nine million publications, is the world's most comprehensive bibliographic database for biological and biomedical literature. It is also a highly user-friendly site.

<http://www.asm.org>

The web site of the American Society for Microbiologists offers free access of eleven online journals.