

# THIS WEEK IN BI 103

**PORTFOLIO #3 IS DUE TUESDAY MAY 26 BY 5:00 P.M., I3I WNGR**

**TUESDAY LECTURE**



**Defense Systems**  
*An overview of the nonspecific and specific defenses against pathogens.*

**THURSDAY LECTURE**



**Immunity**  
*Specific acquired immunity and some of the immune diseases.*

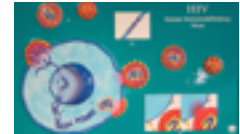
**NO RECITATION**  
*(50-minute activity)  
 Release time for Monday exam #1, lab meets as usual.*

**LABORATORY**



**Body Defenses**  
*An overview of defenses and immune diseases, including allergies.*

**TEXTBOOK READINGS**



**188-193; 370-373**  
*The last assigned readings of the term, covering human defenses.*



**Work Ahead on the Lymphatic System & Immune Response**

Read p. 188-193 in *Human Body*.

What is **lymph**? (p. 188)

What is the role of the **lymph nodes**? (p. 188-190)

List the five steps of the nonspecific inflammatory response (p. 191).

Describe what the two type of specific defenses (antibody and cellular) do. (p. 192)

How do complement proteins work? (p. 193)

**Work Ahead On Immunization & Immune Diseases**

Read p. 370-373 in *Human Body*.

Compare active immunization to passive immunization (p. 370).

Describe the three steps of an allergic response (p. 372).



**BI 103's Final Exam is Mon. June 8 at 8:00 to 9:50 p.m.**

Describe what an autoimmune disease is and provide examples (p. 373).

**Work Ahead for Laboratory**

From the *Blood* recitation (week 5), list the five types of WBCs:

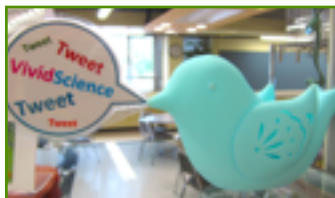
From the *Cancer* lecture (Thurs., week 7), what type of lymphocyte kills cancer cells? \_\_\_\_\_ This cell can also kill wounded and injured cells as part of the nonspecific inflammation response.

From this week’s *Body Defenses* lab answer these questions. Defenses against pathogens that do not involve specifically recognizing the pathogen are called \_\_\_\_\_ immunity (Station B, p. 152). The two types of specific, or acquired immune responses are \_\_\_\_\_ acquired immunity and \_\_\_\_\_ acquired immunity (Stations C & D, p. 152-153).

**Work Ahead for the Final Exam**

Approximately 10 of the 60 questions on the final exam are cumulative. This material typically includes concepts that were covered repeatedly in the course. Try to think of two or three concepts we’ve covered repeatedly this term, then look at the beginning of last year’s final exam (Appendix D) to see if there were similar questions asked.

To make sure the week 7 material does not fade in the month’s time before the final exam, write one or two possible exam questions for each of the week seven objectives (# 109-127).



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**Finish the term strong.** If you would like any assistance in studying for the final exam, come by **office hours** this week.



**Review:**  
List the different types of pathogens (microparasites) that cause disease in humans.

*Immunity*



**Innate Immunity:** Innate immunity includes our barriers that keep pathogens out of the body, as well as the generic inflammation response that is used against all invaders.



**Cell-Mediated Acquired Immunity:** Cytotoxic T cells specifically recognize and destroy pathogen-infected cells. *This is personal!*



**Antibody-Mediated Acquired Immunity:** Plasma B cells produce antibodies that stick to specific pathogens. *This is personal!*