



CHEM 330 Biochemistry

Ninth Week

October 31 – November 4, 2011

Assignments

- If you have not already done so, please read sections 19.1, 19.2, 19.3.
- Reading of Chapter 15 should be completed before class on Monday (11/7/11)

Announcements

- Obviously, you should be working on Exam 3 this week. You are welcome (and, in fact, encouraged) to come to my office to discuss it. ***Please do not wait until the last minute to begin the exam!*** If someone is in my office discussing biochemistry, ***ask if you can join the discussion!***

The conversion of glucose to ethanol and carbon dioxide by yeast has been used by humans for at least 10,000 years.

“In general, respiration is nothing but a slow combustion of carbon and hydrogen, which is entirely similar to that which occurs in a lamp or lighted candle, and that, from this point of view, animals that respire are true combustible bodies that burn and consume themselves.” – Antoine Lavoisier (1789)

“The active metabolism of mammalian tissues remote from the atmosphere is possible because of a mechanism which provides constant delivery of oxygen and removal of carbon dioxide. The magnitude of the task may be appreciated from the fact that a man oxidizing 3000 kcal of mixed food per day uses about 600 liters (27 moles) of oxygen and produces about 480 liters (22 moles) of carbon dioxide.” – White, Handler, & Smith (1959)

“Our understanding of the sequence of events in electron transport is largely based on the use of specific inhibitors.” – Voet & Voet (2004)