

Update: Kaplan's *AP Biology*, 2005 edition

Please note the following corrections. Thanks to our readers for their input.

Pages 93–95	Corrections
page 93, Chapter 5	<p>Last two sentences on page should read, “As the electrons flow through the electron transport chain, some of their energy is used at three steps in the electron transport pathway to pump H⁺ ions from the mitochondrial matrix into the intermembrane space. The pumping of these H⁺ ions into the intermembrane space creates a pH gradient across the inner mitochondrial membrane, another form of useful energy.”</p>
Page 94, Chapter 5	<p>The diagram illustrating electron transport is incorrect. The ions should be moving into the intermembrane space, as depicted below:</p> <div style="text-align: center;"> <p>Oxidative Phosphorylation</p> </div> <p>First paragraph, second sentence should read, “In electron transport, the energy of NADH and FADH₂ is converted again, this time to the energy in the proton gradient across the inner mitochondrial membrane. Since these protons cannot diffuse back across the inner mitochondrial membrane into the matrix, this energy is stored as a concentration gradient the cell uses to make ATP.”</p> <p>Second paragraph, second sentence should read, “ATP synthase allows the protons in the intermembrane space to flow down their concentration gradient back into the mitochondrial matrix, harnessing...”</p>
Page 95, Chapter 5	<p>Second full paragraph, line 2: “...so that protons can move down their gradient back into the mitochondrial matrix without passing through...”</p>

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Page	Corrections
Page 351, Practice Test 1, Question 56	Answer choice D should read, "Cell mediated immunity is involved in recognizing and destroying pathogens which have not yet entered cells."
Page 364, Practice Test 1 Answer Key	Answer to question 56 should be C.
Page 370, Answers and Explanations to Practice Test 1, Question 56	Answer should be (C) . First two sentences of explanation should read, "Cell mediated immunity is involved in recognizing and destroying cells which have been infected by pathogens. Humoral immunity is involved in recognizing and destroying pathogens which have not yet entered cells." Rest of explanation continues unchanged.