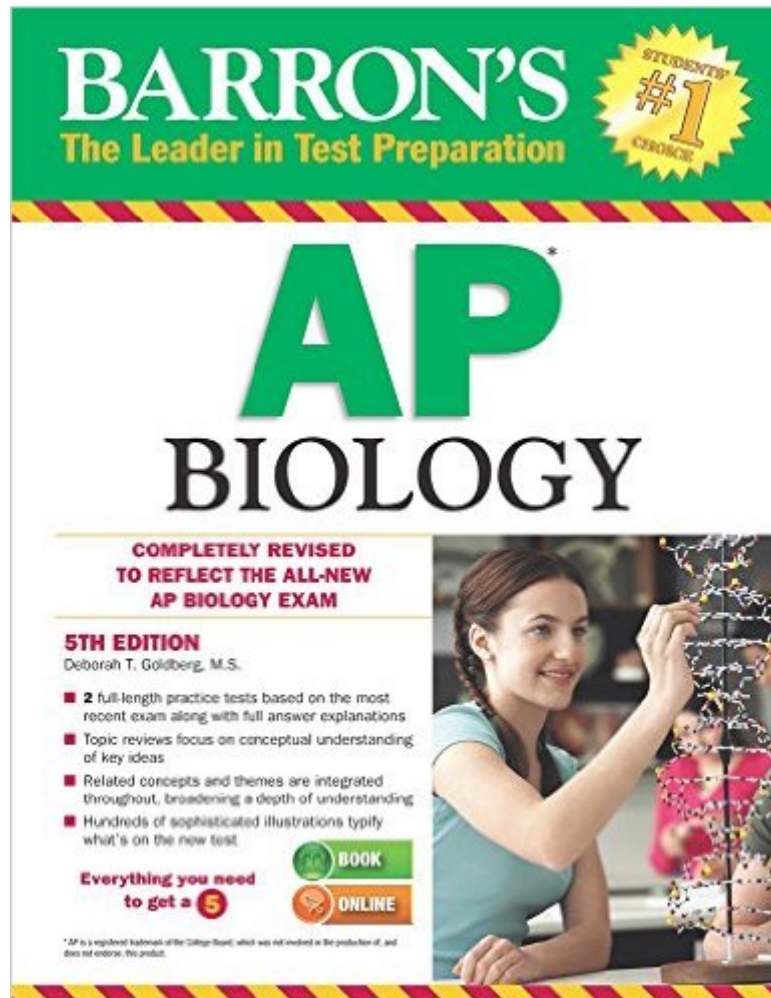


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Barron's AP Biology, 5th Edition



Synopsis

This best selling AP Biology study guide includes: Two full-length exams that follow the content and style of the new AP Biology exam
All test questions answered and explained
An extensive review covering all AP test topics
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Customer Reviews

I read carefully up to page 58, doing all of the practice problems and checked my answers.p.57- "Hydrophilic signaling molecules dissolve through the plasma membrane and bind with a receptor in the cytoplasm. Hydrophilic signaling molecules, those that bond to a receptor on the cell surface, require a second messenger."-- I believe in the first statement they meant to say hydroPHOBIC molecules pass through the plasma membrane.p.30- A question asks why there is no increase in product after 100 seconds in an experiment where one enzyme is combined with its substrate at time 0. They provide a table showing that at time 100 and 120 sec, product in milligrams stays at 0.85 milligrams. Their answer is, "There is no increase in product after 100 seconds because all the enzymes are saturated and are already catalyzing reactions as fast as they can." The next question

asks what would happen if you added only more enzyme after 100 seconds. Their answer, "Assuming there is excess substrate that enzyme is not colliding with, an addition of enzyme after 100 seconds would increase the rate of reaction until the enzyme, once again, became saturated." Is Goldberg assuming that if all the enzymes are busy working, the amount of product wouldn't change within 10 seconds? p.34- It states "Eukaryotes-cytoskeleton present" and "Prokaryotes-cytoskeleton absent". This was originally taken to be true, but in the early 1990's it was discovered that prokaryotes do have their own cytoskeletons, though they differ from those of eukaryotes. When I first got this book I was very excited and trusted that it would be a solid review for the AP. Skimming through, many tables seemed very useful.

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