Bio 112 Handout for Physiology 7

This handout contains:
- Today's iClicker Questions

iClicker Question #27A - before lecture

Which of the following are true?

A. Muscle cells can only pull; they cannot push.
B. Muscle cells use the chemical energy of ATP to move.
C. Muscle cells are signaled to move by nerve impulses.
D. All of the above
E. None of the above

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iClicker Question #27B - after lecture

Consider the hypothetical drug C. Drug C inserts itself into all membranes and allows Ca^{++} ions to flow freely through the membranes. It does not allow any other ions to move. It is like adding an always-open Ca^{++} channel to all membranes in all cells. What would happen if you added this drug to a muscle in a living animal?

(A) the muscle would be unable to contract
(B) the muscle would contract even if it had not been stimulated by a nerve
(C) it would have no effect (the muscle would only contract if stimulated by a nerve)
(D) I don't know.

Beaming in your answers

1. Figure out your answer and select the appropriate letter (A-E).
2. Turn on your iCliker by pressing the "ON/OFF" button; the blue "POWER" light should come on. If the red "LOW BATTERY" light comes on, you should replace your batteries soon.
3. Transmit your answer as follows:
   a. Press the button corresponding to the answer you've selected (A thru E).
   b. The "STATUS" light will flash green to indicate that your answer has been received. If the "STATUS" light flashed red, your answer was not received; you should re-send it until you get a green "STATUS" light.

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