

# Bio 112 Handout for Physiology 4

This handout contains:

- Today's iClicker Questions

## iClicker Question #24A - before lecture

Which of the following are true?

- During the first part of an action potential,  $\text{Na}^+$  ions go in, making  $V_M$  (+).
- After  $V_M$  becomes positive,  $\text{K}^+$  ions go out to bring  $V_M$  back (-).
- The voltage-gated  $\text{Na}^+$  channels only stay open for a short time before closing and ignoring  $V_M$  for a little while.
- All of the above.
- None of the above.

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## iClicker Question #24B - after lecture

Which of the following drugs would have the same anesthetic effect as novocain?

- Drug X, which binds to voltage-gated  $\text{Na}^+$  channels and plugs the opening so  $\text{Na}^+$  ions can't get through.
- Drug Y, which binds to  $\text{K}^+$  channels and plugs the opening so  $\text{K}^+$  ions can't get through.
- Drug Z, which makes the voltage-gated  $\text{Na}^+$  channels stay inactive longer before becoming ready again.
- All of the above.
- None of the above.

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### Beaming in your answers

- Figure out your answer and select the appropriate letter (A-E).
- Turn on your iClicker 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.
- Transmit your answer as follows:
  - Press the button corresponding to the answer you've selected (A thru E).
  - 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.

