



HOMEWORK 7

Due Thursday, April 3rd

1. Discuss the relevance of muscle contraction to the development of neural prosthetic devices.

2. Describe, in terms of ionic fluxes and electric charges, how the depolarization and repolarization of an action potential occurs (use at least Na and K).

3. Prepare 10±3 slides about your project (you will present them to me, individually, during the second or third week of April). REQUIREMENTS: make the presentation with white background. Print 2 slides/sheet. I need a hard copy so I can go through them and give you feedback on each slide. If you need guidance on what to write on each slide, here's some help:
 - a. Title/author/affiliation
 - b. Outline
 - c. Background (physiological basis, explanation of where the idea comes from, maybe clinical applications)
 - d. Main body of your project (at least three slides with figures, ideas described in bullets. Add references if you take images or ideas from papers or websites).
 - e. Your own analysis of the ideas presented. Problems you identified. How to solve them (here would be a good place to add your own block diagram, your own words/graphs/pictures).
 - f. Conclusions / future work

