10. Blood and Respiratory Media

Marguerite Butler

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Pre-class materials

Read ahead

Before class, you can prepare by reading the following materials:

- 1. No Class on Tuesday Election Day! But to stay on track please be sure to watch the podcast and review [locomotion]
- 2. Thursday we will move on to blood and respiratory media
- 3. Lab this week is on [toad muscle]! Pay attention to refining your prelab.
- 4. Think hard about a **hypothesis for your independent toad muscle** lab next week.

Announcements/Reminders

- Due Friday Homework 5 via Laulima [schedule]. You should be able to complete all of the questions except the last one. Because of the holiday, we will talk about that a bit on Thursday.
- Do discussion TEAMMATES eval, released each Thursday, due by Monday.
- Getting to the end, folks!

Week 11 Discussion Groups

| Group | Partner 1 | Partner 2 | Partner 3 |
|-------|-----------|-----------|-----------|
| 1 | James | Abby | Ilan |
| 2 | Christian | Kylee | Veronica |

| Group | Partner 1 | Partner 2 | Partner 3 |
|-------|-----------|-----------|-----------|
| 3 | Ashton | Mohamad | Vivian |
| 4 | Hao | Adam | Sean |

Tuesday is Election day

No Class - Please watch the podcast and review on your own. I ll talk briefly on this on Thursday.

- Terrestrial Locomotion [discussion] [slide deck 2]
 - Cursorial adaptations
 - Trends in posture
 - Limb cycles and gaits (kinematics)
 - Ground reaction forces and joint forces (biomechanics)
 - Conservation of energy in running, walking jumping

https://youtu.be/YlyaASmy-1E

Thursday

- Blood and Respiratory Media [discussion] [slide deck] [slide deck2]
 - Hemoglobin and O2 delivery
 - Bohr effect
 - Air vs. Water as respiratory media
 - Diffusion vs. Bulk Flow

https://youtu.be/t0Vf-RJleCE

Coming up Next Week

- Homework 6 Respiration Thursday 11/12 [schedule]
- i Reminders and materials