

# 10. Blood and Respiratory Media

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## Pre-class materials

**i** 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