

Lt Instructor's Material

Endocrine Physiology



In this lab, students will identify the major endocrine organs and examine how different hormones contribute to homeostasis. Students will also analyze data to identify which hormones have been used to treat virtual rats, before learning about endocrine disorders.

Equipment list and alternatives

This lab can be performed without any hardware or consumables.

This lesson is suitable for use both in person with groups of students, and remotely in groups or individually.

Group work

These lessons are designed to be completed by small groups of 2–4 students. The Group work feature in Lt allows students to log in together and share work.

Attribution

- The scenario activity on the Feedback Loops page was inspired by:
 - Riggs, W. Homeostasis Speed Dating. *HAPS Educator*. Vol 21, Suppl. 2, pp. 73-81. Published November 2017. doi: 10.21692/haps.2017.041.
- The “virtual rat” activities in this lab are adapted from:
 - Odenweller, C. M., Hsu, C. T., Sipe, E., Layshock, J. P., Varyani, S., Rosian, R. L., & DiCarlo, S. E.. 1997. Laboratory exercise using “virtual rats” to teach endocrine physiology. *Advances in Physiology Education* 273:6.