

Review Hormones

- 1) What are the "ingredients" of a simple endocrine system?
- 2) Where are insulin and glucagons secreted? Answering "the pancreas" is not sufficient.
- 3) What are the stimuli for the secretion of these hormones?
- 4) How come epinephrine has such different effects on its different target tissues?
- 5) Why do we call insulin anabolic and glucagons catabolic hormones?
- 6) List the steps in the G-protein mediated signaling cascade depicted in slide 18. Explain how this process amplifies the signal of a hormone.
- 7) What are the differences between hormones that have membrane receptors and those that have nuclear receptors.
- 8) Create a feedback diagram that illustrates how urine concentration is regulated. The ingredients should be the hypothalamus, ADH, and the cells of the epithelium of the collecting duct.
- 9) Juvenile hormone can be used to control insects. Why?
- 10) Use simple diagrams to differentiate between a simple endocrine pathway, a simple neurohormone, and a simple neuroendocrine pathway.