

BI 358 Active Learning Questions Lecture 10

1. What 3 *criteria* must be satisfied in order for a chemical to be *classified as a hormone*? Identify 3 *exogenous* hormone sources and 3 *endogenous classifications*.
2. Compare and contrast the *anterior* and *posterior pituitary* while emphasizing the unique *relationship of each part to the hypothalamus*. Identify 2 *hormones* produced by the *hypothalamus* that are stored in the posterior pituitary and describe their general functions. Identify *hormones* produced by the *anterior pituitary* and also describe their general functions. Identify corresponding hypothalamic *release- and release-inhibiting hormones* that provide regulation of specific anterior pituitary hormones.
3. What is *growth hormone*? Why might it be viewed falsely as the *fountain of youth* and *body builder's dream*? What are issues with taking it exogenously?
4. Where are the hormones *insulin & glucagon* produced? What are their *specific actions*? At the *hormonal and cellular level* where are problems in a *diabetes mellitus* patient?
5. What mineral is required for *thyroid hormone production*? When *dietary intake* of this mineral is *deficient* what can happen? What hormones are released from the *adrenals* during a *fight-or-flight or alarm reaction*.