

Endocrine System: Endocrine System Review

1. Hormones act at specific target organs because these organs contain _____ specific for the hormones.
2. Growth hormone, secreted by the _____ gland, stimulates growth of bones and muscle by activating intermediary proteins called _____.
3. _____ (hormone) from the anterior pituitary stimulates secretion of cortisol from the _____ (gland). The anterior pituitary consists of _____ tissue.
4. The parafollicular or C-cells of the _____ gland produce _____, a peptide hormone that lowers plasma calcium levels.
5. Hormones secreted by the pancreatic islets of the pancreas include _____ from the α cells and _____ from the β cells. Which of these hormones raise blood glucose levels?
6. Specialized muscle cells in the heart produce _____ (hormone), which increases excretion of _____ (electrolyte) by the kidneys.
7. _____ (hormone) promotes the final conversion of vitamin D to _____ in the kidney.
8. _____ (hormone) produced by G-cells in the pyloric antrum stimulates _____ secretion in the stomach.
9. One ventral hypothalamic hormone (_____) is essential for the stress response and another (_____) inhibits release of prolactin.
10. _____ (hormone) is a stimulus for sperm production in the male and maturation of ovarian follicles in the female.
11. _____, secreted by the pineal gland, helps regulate body activities with the light-dark cycle.
12. The zona glomerulosa of the adrenal cortex primarily produces the hormone _____, which acts on the _____ (organ) to increase _____ (electrolyte) reabsorption.
13. _____ (gland) is a modified sympathetic ganglion producing the amine hormones known as _____. This category of amine hormones includes both _____ and _____ (two hormones).
14. The _____ (organ) produces a steroid hormone called _____ in the interstitial cells and a peptide hormone called _____ that inhibits FSH.
15. Large follicles in this gland (_____) contain a protein colloid called _____ from which the hormones _____ and _____ are made. These hormones regulate many metabolic functions and are important for nervous system development and growth.

16. Nuclei in the ventral hypothalamus produce two hormones that are stored in the posterior pituitary. Name the two nuclei that produce these hormones and name the two hormones, one of which is important for water balance.