

Lab Activity 8: The Endocrine System

Introduction: The endocrine system is so named because it is a DUCTLESS system of cells, tissues, and organs that secrete substances, called hormones. The hormones are transported via the blood to a target cell or organ or can be secreted directly into interstitial fluid. Once the hormones arrive at their respective target location, they will induce cellular changes.

Part I: Students will need to be able to identify on any given histology slide. Students will need to know the specific hormones produced or associated with each of the endocrine glands/endocrine structures.

Pituitary gland slide

Anterior lobe
Posterior lobe

Thyroid/Parathyroid glands slide

Thyroid gland
Parathyroid gland
Follicle of the thyroid
Follicular cells
Colloid
Extrafollicular cells

Pancreas slide

Islet of Langerhans or
pancreatic islets

For Part II: Students will need to identify the structures listed in the link for Part II: Lab Activity 8: Macroanatomy structures

Textbook reference pages: 293; 298-308