**Questions to answer:**

1. Explain the purpose of each of the following modes of cellular communication in multicellular organisms, and give an example of each from human physiology.  For each, identify the ligand, and the response:
   1. Cell-Cell contact.
   2. Paracrine signaling
   3. Endocrine signaling
   4. Nervous system signaling.
2. Diagram the following hormonally-controlled regulatory processes in mammals.  Include the major glands, hormones, effects of those hormones, and feedback loops involved in each of the following aspects of human physiology:
   1. Regulation of metabolism
   2. Regulation of Blood Calcium Level
   3. Regulation of the Female Reproductive System
   4. Regulation of the stress response.
3. Briefly explain the role of each of the following hormones in plant physiology:
   1. Auxin
   2. Gibberellin
   3. Abscisic Acid
   4. Ethylene