

## Chapter 29, Human Development

### “Apply What You Know” Answers

- p. 1099—Both the slow block to polyspermy and acetylcholine release by a neuron are processes of exocytosis triggered by an inflow of calcium ions.
- p. 1105—(a) Epithelial tissue is derived from ectoderm and endoderm; (b) connective tissue is derived from mesoderm; (c) Muscular tissue is derived from mesoderm; and (d) nervous tissue is derived from ectoderm.
- p. 1121—Anemia → renal hypoxia → death of nephrons → reduced erythropoietin secretion → depressed erythropoiesis → anemia. The feedback loop could start at any point in this sequence, as long as it is completed by coming back to the starting point.