

Chapter 11, Muscular Tissue

“Apply What You Know” Answers

- p. 412—Myosin, tropomyosin, calcium channel proteins, and ligand-gated ion channels at motor end plate.
- p. 423—Hypertrophy. Muscle cells are not capable of mitosis, and except for a possible minor role of nonmitotic longitudinal splitting of large muscle fibers, increased muscle mass is thought to result not from an increase in cell number, but from an increase in cell size.
- p. 427—Calcium channel blockers inhibit smooth muscle contraction. Smooth muscle contraction depends on calcium entering the cell from the ECF, and calcium channel blockers prevent this.