

Lab Project (possible topics, please feel free to bring your own ideas!) ►

Electromyogram of the stretch reflex

Regulation of blood pressure and homeostasis during exercise

Ionic basis of action potential in plants and animals: role of Na^+ / Ca^{2+} ions in the generation of the action potential in *Chara* (alga), nerve and muscle cells

Role of Ca^{2+} ions in cardiac, smooth and skeletal muscle physiology

Regulation of heart rate by the autonomic nervous system

Muscle fatigue

Conduction of action potentials under different physiological conditions

Electrical stimulation and conduction velocity in peripheral nerves

Visual perception

Characteristics and composition of urine under different physiological conditions