Research on the molecular regulation of skeletal muscle adaptation in response to exercise and nutrients

Our laboratory is seeking motivated undergraduate students to assist in research exploring the biological regulation of skeletal muscle adaptation. Ongoing studies include the impact of exercise on skeletal muscle during chemotherapy treatment, the impact of analgesic medication on the adaptive response of skeletal muscle to exercise, and the role of exercise intensity on nutrient sensitivity of aging muscle. These ongoing studies include analyses performed on human and animal muscle tissue. Techniques commonly used in the lab include western blot, real time PCR, and immunohistochemistry.

We are greatly interested in students who can commit to at least one year of work in the lab and ~10 hours / week. Those interested can contact Jared Dickinson, PhD (jared.dickinson@asu.edu).