Jeanne Wilson-Rawls, PhD and Joanna Palade

Exploring the role of Numb isoforms in musculoskeletal lineage decisions.

We are interested in examining potential isoform switching of the cell fate determinant, Numb. Numb has four protein isoforms that are derived by alternative splicing. We want to know when, and which, isoforms are expressed in stem cells that can differentiate into musculoskeletal tissues, like skeletal muscle or cartilage.

A student would learn to do RT-PCR to look at alternatively spliced mRNA and how to do Western blots to examine the proteins translated in cells before, during and after differentiation.

If you interested in this position, please send a resume and a statement about your experience and goals to Dr. Jeanne Wilson-Rawls (jeanne.wilson-rawls@asu.edu).