http://www.microbiology.columbia.edu/images/space.gif

**Fred Chang, MD PhD, Professor**

The Chang Lab studies cell morphogenesis and cell division. We are interested in fundamental questions concerning spatial organization within a single cell: How do cellular components organize to form cells of a specific size and shape? As part of these mechanisms, cells somehow sense their own shape and size. Topics include: cytokinesis, placement of the cell division plane, cell polarity, dynamics of microtubules and actin, biomechanics of cell morphogenesis, and sensing of cell shape and size. Many of our studies are on the simple rod-shaped fission yeast *Schizosaccharomyces pombe*.