

Quiz 3 Material

Cytoskeleton & MFs;
Actin & Polymerization-Based Motility (MFs);
Actin & Motor Protein-Based Motility (MTs);
Actin-Myosin Systems (MTs); MT Motors; Mitosis;
Mitosis & Cytokinesis; Cilia; IFs;
Mitochondria (Structure, Genome, & Origins);
Mitochondria (Protein Import)

Cytoskeleton & MFs

Cytoskeleton

- network of protein filaments
- highly dynamic (i.e., filaments change length, exchange subunits)
- important for:
 - cell shape
 - cell polarity
 - cell division (mitosis, cytokinesis)
 - cell motility (swimming, crawling)
 - intracellular transport