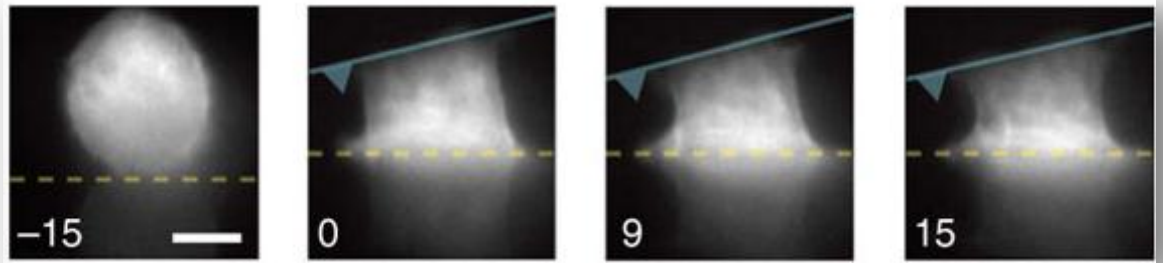


Axonal growth cone:
Green- microtubules,
red- actin



Human Osteosarcoma cells- GFP actin: showing change in cell shape and actin fibre distribution with AFM cantilever induced stress. (Daniel Fletcher: [Combined atomic force microscopy and side-view optical imaging for mechanical studies of cells](#))

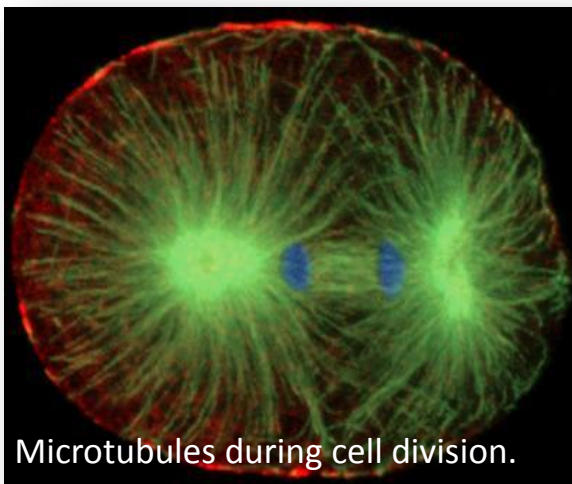
Current Topics in Cytoskeletal Organization

MCB 529 GB1 (CRN #55937) Spring 2011

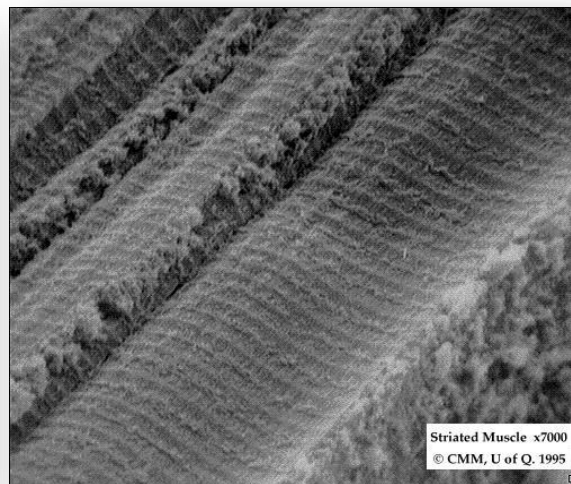
Wednesdays, 4 - 6 pm – CLSL B124

Martha Gillette, Bill Brieher

- cytoskeletal elements in prokaryotes and eukaryotes
- structural and dynamical organization
- cytoskeleton and cell polarity, cell migration
- small GTPases, auxillary proteins
- dendritic filopodia
- nuclear actin
- cytoskeletal plasticity in neuronal spines
- cytoskeleton and long-term potentiation
- cytoskeleton and transcriptional regulation
- actin and cell signaling
- actin and cancer



Microtubules during cell division.



Striated Muscle x7000
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