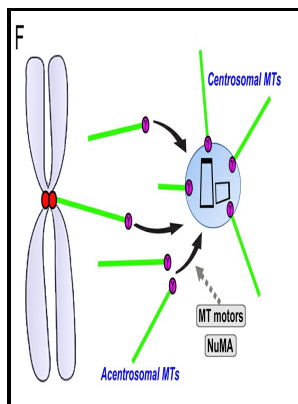


Centrosome

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Centrioles and Centrosomes

The photo courtesy of Tim Mitchison shows microtubules growing from an isolated centrosome. Some organisms have cilia on certain cells. Destruction of both centrosomes with a laser beam prevents cytokinesis even if mitosis has been completed normally.

Centrosome

In ciliated cells such as the columnar epithelial cells of the lungs and ciliated protozoans like the paramecium, many basal bodies form, each producing a beating cilium. During the interphase that soon follows, this centriole will divide to again create two mother centriole-daughter centriole pairs. Mutations in the tumor suppressor gene p53 seem to predispose the cell to excess replication of the centrosomes.

3.7: Centrosomes and Centrioles

An excess of centrosomes can be generated by very different mechanisms: specific reduplication of the centrosome, cytokinesis failure during generating an increase in chromosome number, cell fusion such as in cases of infection by specific viruses or de novo generation of centrosomes.

Centrosome

In general, each centriole of the centrosome is based on a nine-triplet microtubule assembled in a cartwheel structure, and contains, and. When the centrioles are irradiated by a laser, mitosis proceeds normally with a morphologically normal spindle. In almost all types of cell, the basal body forms a nonmotile primary cilium.

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