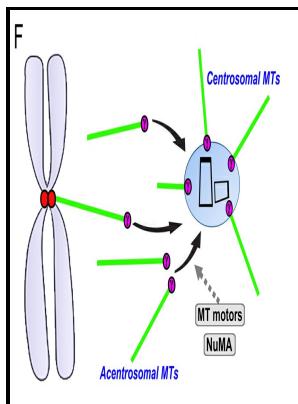


# Centrosome

## Academic Press - Centrosome



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Notes: Includes bibliographical references and index.  
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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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