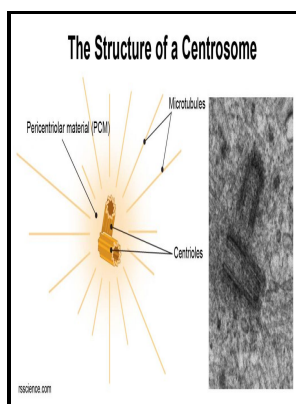


Centrosome

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Notes: Includes bibliographical references and index.
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Centrosome: Definition, Structure & Function (with Diagram)

It consists of two centrioles — oriented at right angles to each other — embedded in a mass of amorphous material containing more than 100 different proteins. These microtubules emerge from the microtubule organizing center MTOC , and are integral to a number of eukaryotic cell functions and processes throughout a cell's lifetime. The function of centrosomes in this context is hypothesized to ensure the fidelity of , because it greatly increases the efficacy.

3.7: Centrosomes and Centrioles

There are a lot of processes that need to be coordinated together when you have two cells, both their nucleus and the cytoplasm, moving away from each other. Moreover, development of the fruit fly is largely normal when centrioles are absent due to a mutation in a gene required for their duplication.

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This initial observation was subsequently extended to many types of human tumors.

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This is not a universal phenomenon. Also during interphase, all of a cell's basic components are replicated, including the centrosome and its pair of centrioles.

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