

classmate
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Centriole →

- Sub microscopic str present inside the cell.
- usually two centrioles are found together + at 90° to each other such pairs are known as Diplosome.

* Area where diplosome are present — Centrosphere

* Centrosome = Diplosome + centrosphere

↳ Boveri (1888)

(except amoeba)

- * centrioles are found only in animals (some protista Fungi & Eukaryotic plants where Flagellate str are present)
↳ Green algae, Bryo, Pterido, cycads etc)

* Centriole replicate during S-phase of cell division

↳ also at the time of Basal Body formation in cilia & flagella.

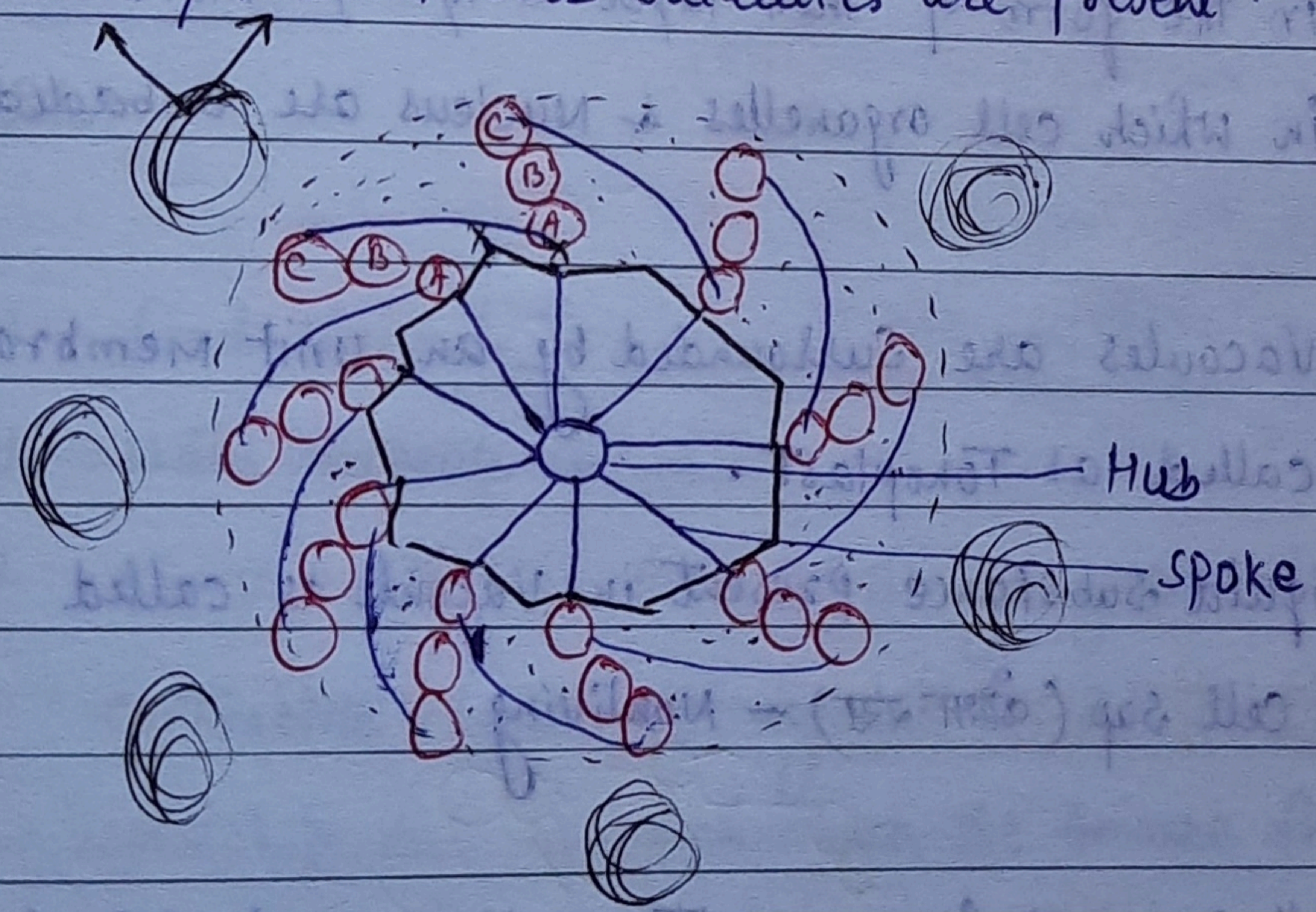
Str of centriole —

It is without membranes & exhibit cart wheel str.

Centriole consist of 9 Peripheral Triplet fibril central are absent. Hence 9+0 arrangement of Fibril.

↳ Tubulin

- * From inside to outside they are known as A B C.
 & the adjacent Triplet fibril are joined by Proteinaceous C-A Linker. & in centre there is proteinaceous Hub (mass)
- * 9 spokes arise from Hub.
- * each spoke attach to the A fibril by X-thickening while Y-thickening is attached to the C-A Linker as well as X-thickening
- * outside the centriole Dense protoplasmic plaques called Massules / pericentriolar satellites are present.



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