Preview from Notesale.co.uk Preview page 2 of 26 Preview page 2 of 26

Structure of centrosome

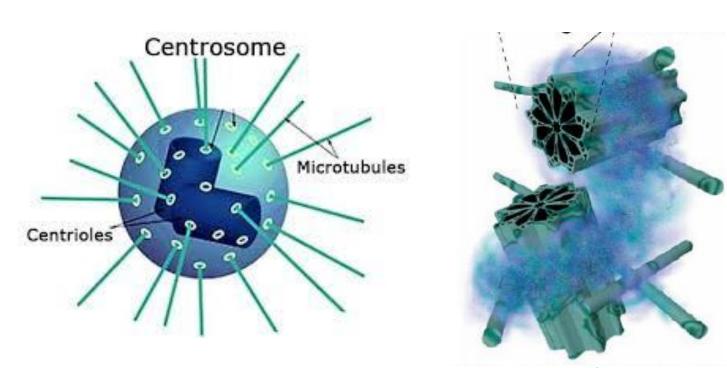
The centrosome generally lies next to the nucleus, near the center of animal cell

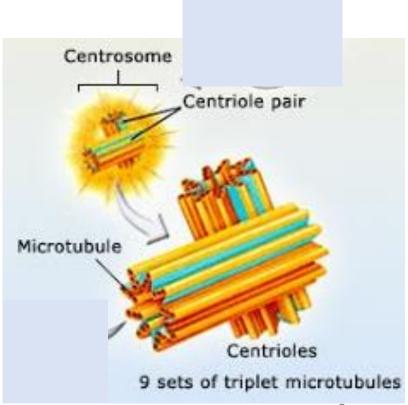
• In interphase, it is typically located to one side of the nucleus, close to the outer surface of the

• Contains centriole pair and periostrolar matrix

Preview from 3 of 26

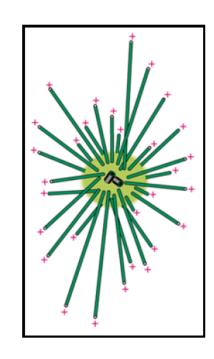
Preview page 3 of 26





Centrosomes are the primary site of nucleation of MTs in animal cells

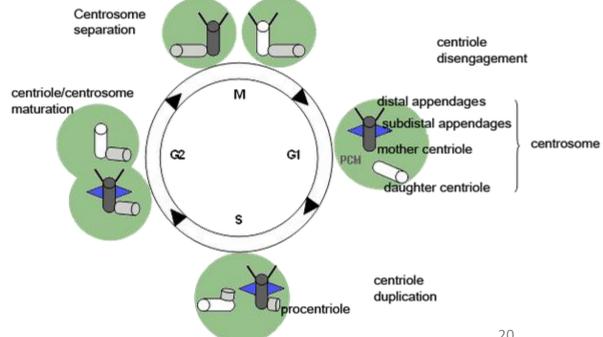
- Centrosome is the major microte and cells from 126
- During interphese the carerosome matrix nucleates a cytoplasmic array of MTs, which project cutward toward the cell perimeter with their minus ends attached to the centrosome
- Starlike network (aster) of MTs emanates from the centrosome and then elongate toward the cell periphery until the original MT distribution is reestablished
- At any one time, several hundred MTs are growing outward from a centrosome
- Cytoplasmic array of MTs emanating from the centrosome can act as a surveying device that is able to find the center of the cell
- Centrosomes protect the minus ends of MTs and continually nucleate the formation of new MTs, which grow out in random directions



Starlike network of MTs emanating from centrosome

SRV





SRV 20