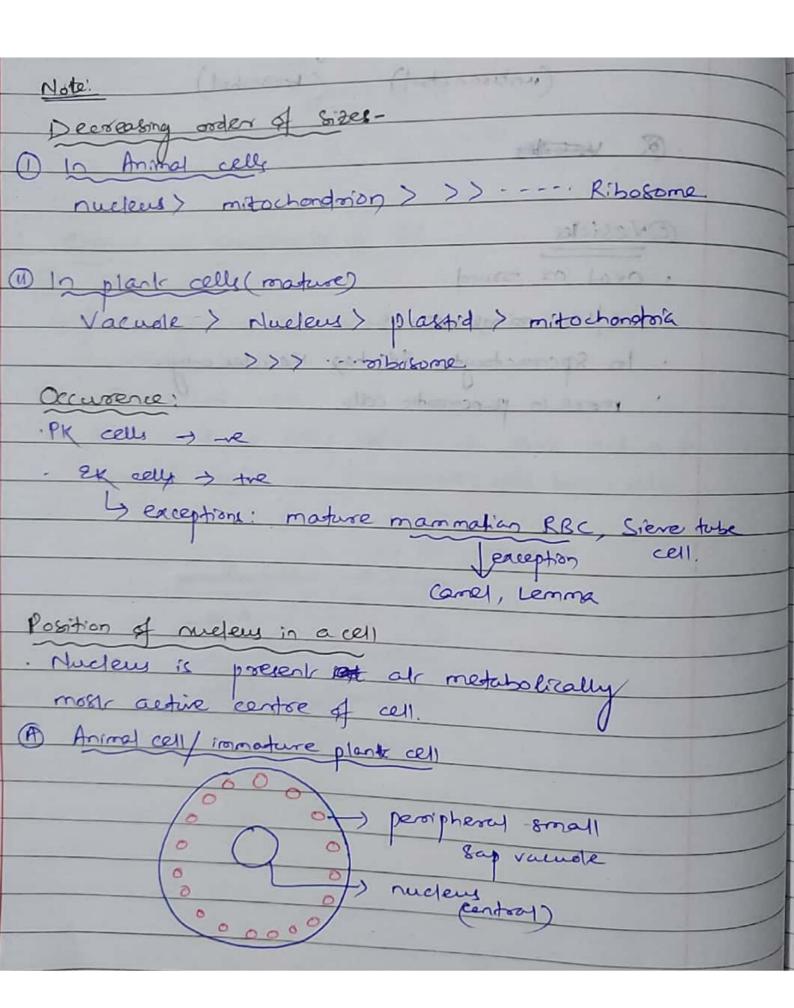
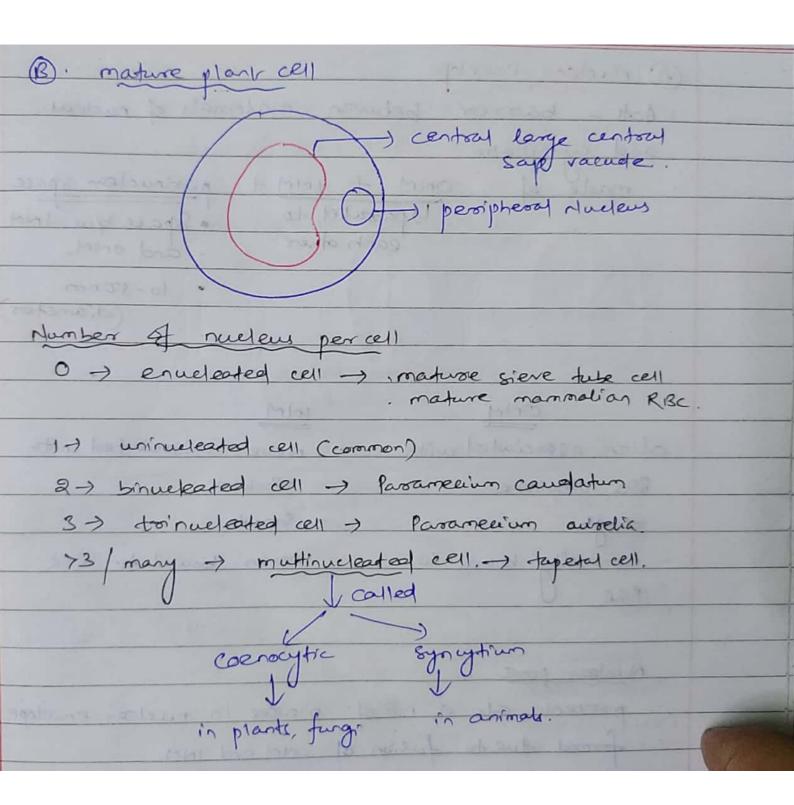
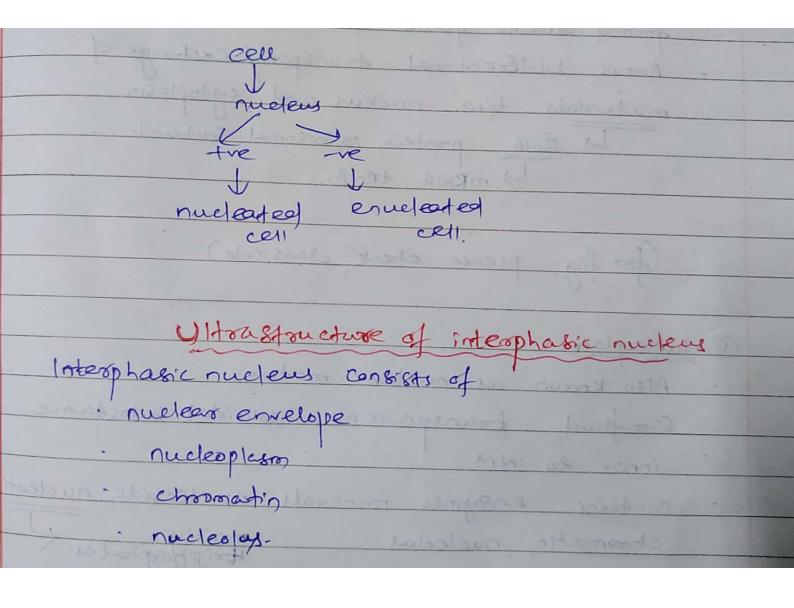
Newland · Discovery Robert Brown (1831) in root-celled Orchid master organelle, controller of cell. , · non cytopiasme de extrauptoplasme organelle. largest cell organelle in Animal Colls. Decreasing order of Sizes-1) In Anithal celly nucleus) mitochandrion > >> --- Ribosome 1) In plant celle (mature) Vacuale > Nucleus > plastid > mitochandrois >>> - oibosome Occurrence: · Ex celly is the 5 exceptions: majure mammation RBC, Sieve tubs cell. Carrel, Lemma







10-50nm (diameters) normally bound to RER , never bound to RER

Nuclear pore · present at a no of places in nuclear envelope. formed due to fusion of one and INM. - Allows bidEsceptional transport/ exchange of materials b/w nucleus and cytoplasm. Ly RNA, propher, sibosomal subunitr (for fig: please cheek class rute) @ Nucleoplasm Also known as nuclear madrix. constituid, transparent, colloidal substance containe enzymes, minerals, nucleoside, nucleotides, chromatin, nucleolus meninty to phosphates.

O chromatin Flemming (1879) chromatin is stained · ex- Acetocasionine. emical composition Historie Non historie · Some (number)

features eventormenting heterochromating

Cheering lightly stained darkly stained

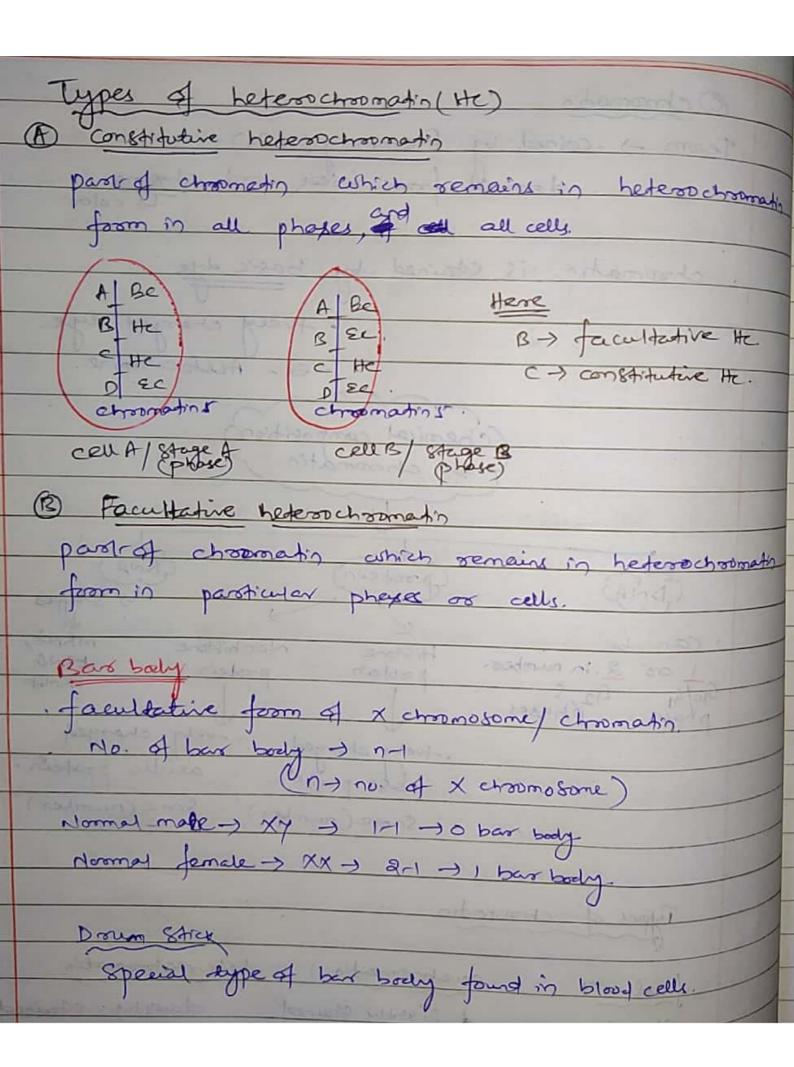
historic content less more

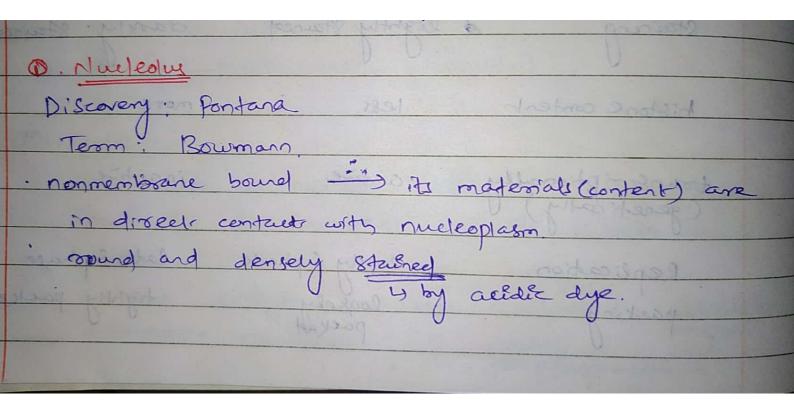
townscriptionally active inactive

(genetically)

Replication earry 5 phase late 5 phase

packing lookely packed





Bound to chromatin at NOR (nucleolar organiser region)

Number of nucleolus per nucleus

. I or >1

. depends on the amount of proofein synthesized

by call.

. more in althore cells that care actively involved

in proofein synthesis.

Punctions of nucleolus

Site of ornit and orbosomal suburily formation

except nucleolus

except or nucleolus

