

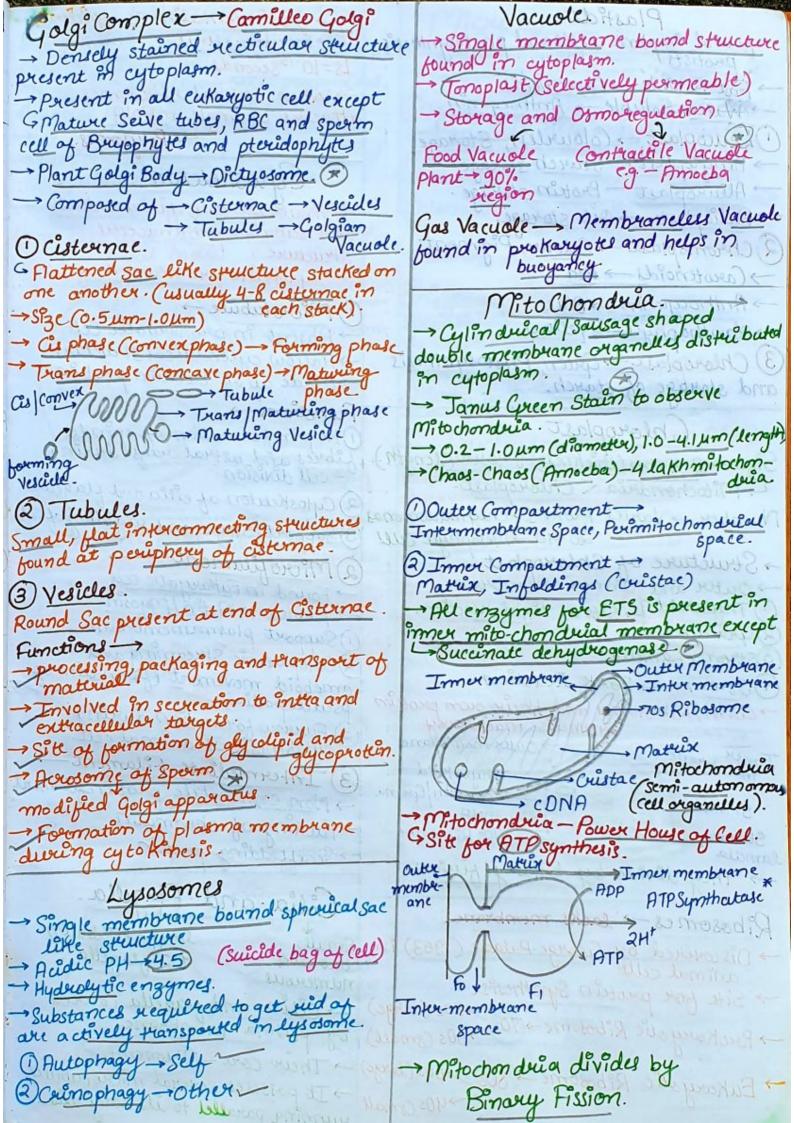
Cell Membrane - Living | Selectively extension that contains pigment Similar to that of enkaryotic cell Based on 2 type of Cell Wall Flagella - Motile Bactivia Flagelicin protein (different from that of enkaryotic flagella) Gram + Ve Bactoria Gram - Ve bacteria Bacterial Stream -Filament AMO EDA. -HOOK aram e ilim) Cell membrane Stain with Crystal Violet Bacteria gets Voilet Colour Pili > Small projections 6 Bacterial Conjugation Washed with Water Stained with Todine fertility recombinant. Violet Washed with ethanol Retained Storain Destaned Backing Fimbrae - Brustle like structure Csaffind Pink Gram the Bacteria projecting outward of bacterial cell Gram-Ve Bacteria → Thick Cell Wall that helps in attachment to surfaces -> Thin Cell Wall → Murein (70-80%) e.g. → Neissoula Gomownea → → Murin (10-20%) → Single Layured Attaches to wall of Wrinary Bladder +2-3 layered → Techoic acid - Techoic acid Ribosomes and Inclusion Bodies present. Distor absent. To prokaryotes Ribosomes are attached to plasma membrane → Few pathogen formed. More pathogen 15nm by 2nm (8ize) → Clostudium, → e Coli, Salmonella, Svedberg Unit 30s (8mall) Corny bacterium, Vibrio. Strepto Coccus. Mesosomes -> A special Membranow structure mesosome is formed by invagination of the plasma membrane in the Cu. - Site of protein Synthesis - When Several ribosome, attaches to single mRNA - polysome Ribosomes of polysome translates mRNA into protein Functions - (1) Cell wall formation 2) DNA replication and it's distribution to daughter cells. Inclusion Body daughter Cells. (3) Respiration → Reserve food material is stored in cytoplasm -> Membranous extensione of Mesosome are in form of - Vescilles, tubules, and Lamella. Not bound by membrane -> Phosphate Geranules -Only found in gram the bacteria Cynophycean Granules (Storage) Glycogen Granules Chromatophores Photosynthetic prokaryotes like Cynobacteria and purple > Gas Vacuole is found in BGA, Bacteria green photosynthetic bacteria there are other membranous

Nuclead - Genetic Material-Nucleoid Proteins -L→cDNA-Double Stranded.] DNA
→ protein - Polyamines Inaked.
Plasmid - not associated with
History. 1 Enteinsic Protein - Peripheral protein (These proteins can be easily dissolved by the cell membrane by washing it with ethanol) 2) Intuinsic Protein - Deeply embeded Extra chromosomal Genetic material that confurs unique pheno-typic expression to bacterial cell. protein which can't be easily removed. 3) Integral Protein - Deeply embedded - They can replicate independently 4) Channel Protion - Pierces lipid bilayer. Confers to spiratic Resistance in every direction) and due to this lateral movement of protein occurs. EUKAR VOTIC CELL protista, jurgi,
G True Nucleus plant, panimals Lipid can flip-flop but proteins commet. Nuclear Membrane present Membrane stability is provided by cholestrol. In prokaryotes, membrane stability is done by haponoids. Membrane bound Cell organelly. Plant Cell Animal Cell Cell wall present Cell wall absent Functions - Transport Centriole present Centriole absent Cdownhill) Active transport Large Vacuale Small no Vacuole. (uprill) of energy. ATP energy Cell Membrane - Living Membrane of both solute and solvent). Primary Active Transport --> Transport along conc. gradient Direct expenditure of energy. (downtill) - passive transport → Nat, Ktpump - Against conc. quadient (uphill) cholestrol sugar 2) Secondary Active Transport Indirect expenditure of energy → In Human (RB) → 52% protion and → Myleinated nerve fibres → 80% lipid, 20% protein Bulk Transport: DEndocytosis - Process of intake of material inside cell in form of Vesicles Fluid Mosaic Model (1972)-→ Pinocytosis -> Cell drunking. Sugar peripheral singer Integral protein → Phagocytosis - Cul eating 2) Exocytosis -> Process of removal of unwanted material outside the cell. ARRARARRAR R Lipid Hydrophilic Head Channel proting Coffinity towards water (ell Wall Fungal Cell Wall - Chitin Algal Cell Wall -> Cellulose, Galactors, Hydrophobic tall Mamans and minerals like Calcium (does not have affinity towards water)

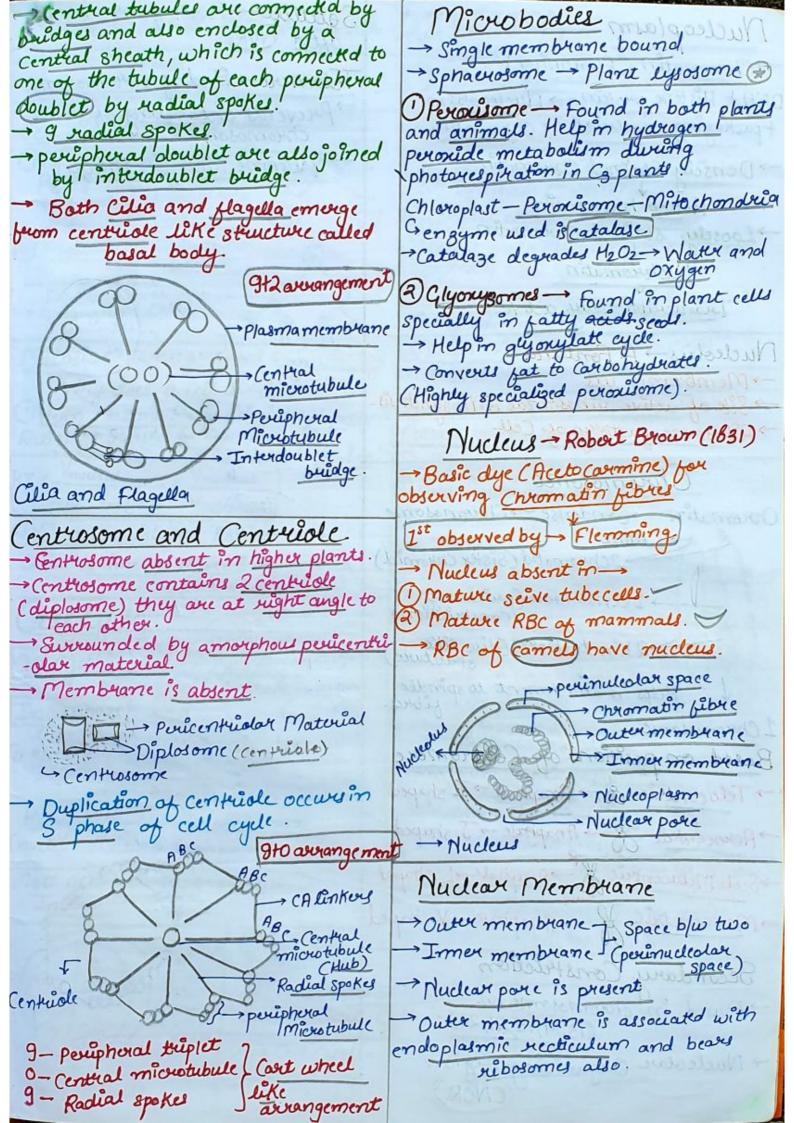
→ Plant Cell → Cellulose, Hemicellulose, Double Membrane -> Mitochondria, Nucleus, Plantid +1 Cell Wall 2° cell Wall No Membrane - Ribosome, 3° Cell Wall Nucleolus, Centriole (only found in tracheids Endoplasmic Recticulum lamella Commette adjacent Cytoplasm Cell Wall Cplasmodesmata) Network of recticulum of tiny tubular structure scattered in Animal Cell - Desmotubule. cytoplasm OPrumary Cell Wall → 1st formed cell wall in growing cell

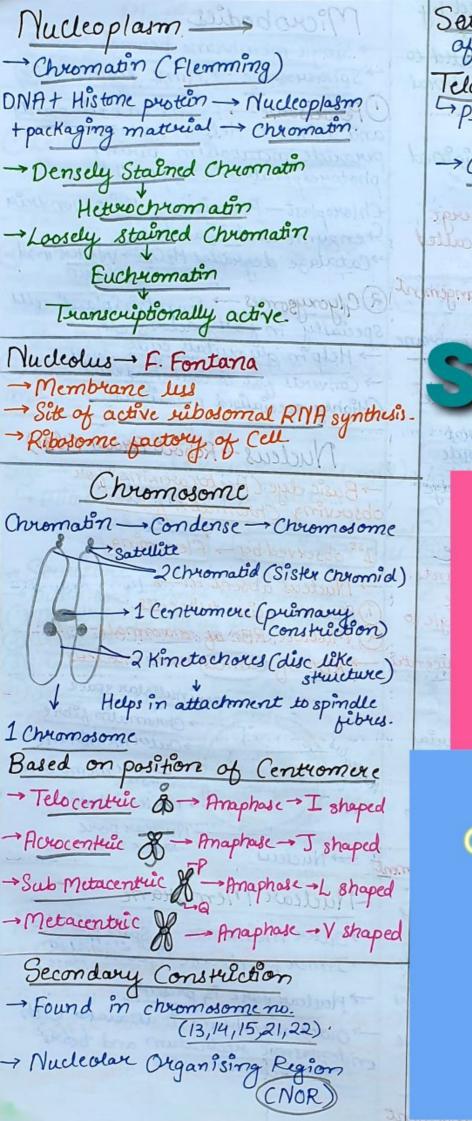
Thin and clastic > ER divides intracellular space into 2 comportments. () Luminal Compartment > Found in all meristematic and (Internal space enclosed within ER Membrane). paranchy matous cell Decondary Cell Wall →
Found in permanent Cell

→ Thick and provide rigidity 2) Extra luminal Compartment (space present outside ER in Cytoplasm) → Middle Lamella → Binding Luminal Compositment
Nucleus
ER.
extra luminal Cementing material blw adjacent cells. Made up of Calcium and magnesium - functions -Drough Endoplasmic Recticulum - Rigidity and support. -> ER -> Ribosome on Surface -> RER → Maintains shape of cell > Extensive and continue with the - Protect from mechanical energy outer membrane of nucleus. -> freely permeable Function-Priotoplasm - Total living matter present inside the cell. → Help in protein synthesis and → It gives ruse to SER. secretion Psiotoplasm + Nucleoplasm - Cytoplasm Nissis granules - Modifications of fragments of RER. Endomembrane System 2) Smooth Endoplasmic Recticulum -> Endoplasmic Recticulum, Golgi Complex No subosome -> Smooth Lysosome and Vacuoles. -Small bubular structure scattered > They are called endornembrane in cytoplasm. System because their functions are Muscles - Sarcoplasmic Recticulum. (Reservoir of Ca2) - All of them are single membrane functions--> Synthesis of lipid and storoidal hormone. Single Membrane -> Endoplasmic - Detoxification of Drugs recticulum, Golgi Complex, Lysosome, - Resurvoir of Calcium ion and Vacuole, Peroxisome, Glyonysome, helps in music Contraction Sphaerosome, Flagella.









Setellite - Part of chromosome of the NOR.

Telomere - End of chromosome

Prevents entangling of chromosome

- Galanine Rich (TTAGGG)

Specimos plustale longo billo choose

The second of the second

SLAYER

