

Membrane Enclosed Organelles:

- Duplicate themselves to distribute to daughter cells during cell division
- Incorporate new lipid and protein (membrane or soluble) molecules to grow
- In absence of cell division, new protein always produced and delivered for secretion or to replace old proteins
- Mitochondria, chloroplasts and nucleus have proteins delivered from cytosol
 - ER, mitochondria and chloroplasts receive proteins from cytosol that are secreted by protein translators through nuclear pores. The Transported protein unfolds for the translocator to guide it across the hydrophobic interior of the membrane
- Golgi, lysosomes, endosomes and inner nuclear membrane proteins and lipids and delivered indirectly from ER
 - Proteins from the ER and other endomembrane system organelles use transport vesicles that pinch off from the membrane of one organelle and fuse with another
 - Deliver soluble cargo proteins and membrane proteins/lipids that are part of the vesicle membrane

Protein Sorting: 15-60 amino acids long and direct protein to destination

- Hydrophobicity and placement of charged amino acids are more important to function of these signals than exact sequence of AA
- Removed from protein once at destination, some keep their signal sequence
- Proteins that go to nucleus hold their signal so during breakdown of nucleus during cell division, they can go back to right place
- Proteins enter nucleus through nuclear pores

Ribosomes: site of beginning of synthesis for almost all proteins

- All ribosomes are structurally and functionally identical
- Cytosol contains free ribosomes and membrane bound ribosomes attached to cytosolic side of ER membrane or the outer nuclear membrane
 - Free ribosomes make all proteins encoded by nuclear DNA

Nucleus: Contains main genome, DNA and RNA synthesis.

- Has nuclear envelope (double membrane and continuous with ER) and nuclear pores
 - Inner membrane contains proteins that act as binding site for chromosomes and anchor nuclear lamina
 - Outer membrane resemble ER membrane
- Nuclear pore penetrates inner and outer membrane of nuclear envelope; passively allow diffusion of small molecules but act as selective gates that actively transport specific macromolecules
 - Made of 30 different types of proteins
 - Unstructured regions where polypeptide chains line the pore to form kelp forest that fills center of channel that prevents passage of large molecules but allows small, water soluble ones to pass nonselectively through the pore and through nuclear basket
 - New protein from cytosol enter nucleus through nuclear pore
 - Nuclear localization signals (made of 1-2 short sequences of + charged lysines or arginines) on proteins are recognized by nuclear import receptors (importin) in cytosol and guide the protein to a nuclear pore to be interared with the tentacle like unstructured regions from the nuclear pores
 - Nuclear import receptors (importins) grab onto AA sequences in tangle of nuclear pore proteins and make their way through the gel like meshwork by disrupting their interactions and making transient passageway through the pore
 - Receptor delivers cargo to nuclear interior though and empty receptor exits through the pore where it came from and can be reused back in cytosol
- Ran-GTP is present in high concentrations around the nucleus, Ran-GDP is in high concentrations in the cytosol
 - Displaces prospective nuclear proteins from its receptor (importin or exportin)
 - Receptor bound to Ran-GTP returns to cytosol where it is hydrolyzed by Ran-GAP (in cytosol) to Ran-GDP (less affinity for import receptor) receptor dissociates from Ran-GDP where receptor can pick up another protein destined for the nucleus
 - Ran-GDP phosphorylation is mediated by Ran-GEF in the nucleus.

Essential Cell Biology Study Guide

**Bruce Alberts, Dennis Bray, Karen
Hopkin, Alexander D Johnson, Julian
Lewis, Martin Raff, Keith Roberts, Peter
Walter**

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and constructive feedback helped enhance the quality of this work making the entire journey both enriching and fulfilling We are equally thankful to our well wishers whose encouraging words and unwavering belief in our potential strengthened our confidence at every step Our deepest gratitude goes to our families and beloved relatives whose constant support patience and sacrifices have been the foundation of our efforts Their love has been our greatest strength throughout this endeavor As we offer this edition to the academic community we hope it will be warmly received by students educators and fellow scholars alike Above all we bow in humble gratitude to the Almighty whose blessings have guided us and made this work possible

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