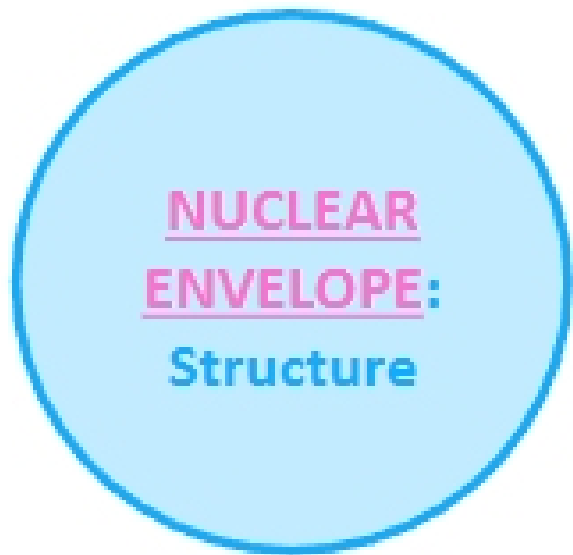


Activities of the Nucleus

1. DNA resides
2. RNA synthesized – *mRNA, tRNA, rRNA*
3. RNA processing
4. ribosomal subunit assembly in NUCLEOLUS
 - translation of ribosomal proteins in cytoplasm → nuclear import → assemble large & small → nuclear export
5. DNA metabolism: *biosynthesis (S phase), repair*



- 2 membranes, continuous w/ ER
 - pores
- NE breaks down & re-forms during MITOSIS

- 2 membranes continuous w/ ER
 - outer & inner
 - **pores** = where 2 membranes join
 - where transport in/out of nucleus occurs
- regarding MITOSIS:
 - chromatin condenses to chromosomes → segregate
 - NE breaks down & re-forms
 - lamina (IFs) inside nucleus strengthen NE, but this breaks down