

NUCLEOPLASM

Meaning: Nucleoplasm is the gel-like substance within the nucleus of a eukaryotic cell that suspends organelles and helps maintain the nucleus's shape and structure.

1. The nucleoplasm serves as the medium in which the organelles of the nucleus are suspended.
2. In eukaryotic cells, the nucleoplasm plays a vital role in maintaining the shape and structure of the nucleus.
3. Researchers discovered that the composition of nucleoplasm can influence genetic expression in cells.
4. During cell division, changes in the nucleoplasm can affect the distribution of genetic material.
5. The study of nucleoplasm has revealed insights into both DNA replication and repair mechanisms.

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