

1. The first step in the process of the cell cycle is the G1 phase, where the cell grows and prepares for division. This is followed by the S phase, where DNA replication occurs, and the G2 phase, where the cell continues to grow and prepares for division. The final step is the M phase, where the cell divides into two daughter cells.

2. The cell cycle is a highly regulated process, and any disruption can lead to cancer. For example, mutations in the p53 protein can lead to uncontrolled cell growth and the formation of tumors. Similarly, mutations in the Rb protein can lead to the development of retinoblastoma.

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