

## Cell Survival

The cell survival curve shows the relationship between the number of cells surviving and the dose of radiation. The curve is typically sigmoidal, indicating that a certain dose is required to cause significant cell death.

## Cell Death

Cell death can occur through various mechanisms, including apoptosis and necrosis. Apoptosis is a programmed cell death process, while necrosis is an uncontrolled cell death process.

Apoptosis is characterized by cell shrinkage, nuclear condensation, and the formation of apoptotic bodies. Necrosis is characterized by cell swelling, membrane rupture, and the release of cellular contents.

The cell death pathway involves the activation of caspases, which are proteases that cleave specific proteins. The activation of caspases leads to the execution of cell death. The cell death pathway is regulated by various factors, including growth factors and stress signals.

Cell death is a natural process that is essential for tissue homeostasis and development. Dysregulation of cell death can lead to various diseases, including cancer and neurodegenerative disorders.



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