

Apoptosis in Development Quiz PDF

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What is the role of apoptosis in digit formation?

- To promote cell growth
- To separate fingers and toes
- To fuse bones
- To enhance muscle development

Which pathway of apoptosis is triggered by internal signals?

- Extrinsic pathway
- Intrinsic pathway
- Lytic pathway
- Necrotic pathway

Which of the following is an anti-apoptotic protein?

- Bax
- Bak
- Bcl-2
- Cytochrome c

What are the consequences of defective apoptosis in neurodegenerative diseases?

Describe the differences between the intrinsic and extrinsic pathways of apoptosis.

Which of the following statements about the intrinsic pathway of apoptosis are true? (Select all that apply)

- It involves death receptors
- It is triggered by internal signals
- It involves mitochondrial release of cytochrome c
- It is independent of caspases

Which of the following processes involves apoptosis for refining neural connections?

- Muscle contraction
- Neural development
- Bone ossification
- Blood clotting

Which of the following are pro-apoptotic proteins? (Select all that apply)

- Bax
- Bcl-2
- Bak
- IAPs

Discuss the role of apoptosis in the immune system, particularly in preventing autoimmunity.

Which diseases are associated with increased apoptosis? (Select all that apply)

- Alzheimer's disease
- Cancer
- Parkinson's disease
- Autoimmune diseases

How does dysregulated apoptosis contribute to the development of cancer?

How do pro-apoptotic and anti-apoptotic proteins regulate the apoptotic process?

Explain the significance of apoptosis in embryonic development.

What is apoptosis?

- A form of programmed cell death
- A type of cell division
- A process of cell growth

- A form of cellular respiration

Which processes are regulated by apoptosis during development? (Select all that apply)

- Digit separation
 Neural pruning
 Blood vessel formation
 Muscle hypertrophy

What triggers the extrinsic pathway of apoptosis?

- Mitochondrial signals
 Death receptors
 DNA damage
 Oxidative stress

What are the functions of caspases in apoptosis? (Select all that apply)

- Initiate cell division
 Execute cell death
 Activate DNA repair
 Cleave cellular proteins

What roles do IAPs play in apoptosis? (Select all that apply)

- Promote apoptosis
 Inhibit caspases
 Prevent apoptosis
 Activate mitochondrial pathways

Which protein family is primarily responsible for executing apoptosis?

- Kinases
 Phosphatases
 Caspases
 Cyclins

Which disease is associated with reduced apoptosis?

- Alzheimer's disease

- Cancer
- Parkinson's disease
- Autoimmune disease