Cell Death: Exploring the Intricacies of Apoptosis

Section of Cytopathology, Institute of Anatomic Pathology, Rovereto Hospital, Italy

Cell death is an essential biological process that plays a crucial role in the development, maintenance, and overall health of multicellular organisms. One of the most well-known and extensively studied forms of cell death is apoptosis. Apoptosis, often referred to as programmed cell death, is a tightly regulated mechanism that ensures the elimination of unwanted or damaged cells, while maintaining tissue homeostasis. In this article, we will delve into the intricacies of apoptosis, its importance in various physiological processes, and its implications in disease and therapeutics.

Ke d : Ce Dea ; A ; Ce ; B ca

I a d c i a

U de a di g a i

A a ed a d c ed ce a e a e b c e ca e e ead e de c a ce . I c a ac e ed b d c ca a d ec a c a e, c d ce a e, c a c de a , c ea a e a , e b a e b ebb , a d e a a a cb d e . U e ec , a e ce dea a c a ed ce a da a e a d a a , a a e e - da e de ce a d e e c a e e [1].

e a ce f a i i a h i l g

A e e a a ca ce e, c a e b e e , e de e e , a d e e a e . D e b c de e e , a a c ca e a a e ead a b e a ce a a e e eeded a e bec e ed da . I a e c c e e c e e e ebb be ee e .

I ad a , a a a a ed da a ed ce . F e a e, e e a a de a a ed ee a e -eac e ece e e a ed de . I a a a c ca e e e a ce ec ed e a e , eb c b d de e e a a ec [2].

A i a d di ea e

D e a a a bee ca ed a de a e d ea e , c d ca ce , e de e e a e d de , a d ea e , a d ca d a c a d ea e . I ca ce , e ab ce

e ec ed b a ca cade ace a a a a e e a a a e e a ed b b e c a d c ac , e a e ba a ce be ee ce a a d dea . E c ac , c a c e a d ac , ca ac a e ce ace ece , ead e ac a ec c a a a a a e e a . I c ac , e e a d, ca be e ed b ce a e , DNA da a e, e ac a ec c e e , c a e a ca cade e e ead ce dea [7].

e ec a ac e ed a c e a d e e a c a a e . O e e e a e a e Bc -2 a e , c c de b - a c a d a -a c e be . e ba a ce be ee e e e de e e e a e e ce . F a ce, -a c e be , c a Ba a d Ba , e ce dea b d c c d a e e b a e e eab a , e a -a c e be , c a Bc -2 a d Bc - L, e e ce dea b b e ac -a c e . D ba a ce ca ead ab a ce a e ce e ce dea , c b d ea e de e e . [8].

A e a c e a e ac a ca a e , a a ea e a a a ce a e e ec