

**apoptosis, senescence, and cancer - the-eye** - cancer drug discovery and development beverly a. teicher, series editor apoptosis, senescence, and cancer, edited by david a. gewirtz, shawn e. holt and steven **senescence and apoptosis: dueling or complementary cell fates?** - a role for replicative senescence in preventing cancer. the intracellular signals that drive senescence remained obscure until the discovery of telomere erosion and telomerase. **chapter 7: apoptosis and replicative senescence in cancer** - replicative senescence in cancer  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  in normal tissue replication is limited by  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  terminal differentiation  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  counterbalanced by apoptosis which leads to cell loss  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  replicative senescence- $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  cell survival but cells exit from cell cycle  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  occurs after ~ 60 doublings or due to inappropriate proliferation signals  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  apoptosis  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  use of proteases called  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$  "caspases  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$ " intrinsic ...**research article open access oridonin induces apoptosis ...** - research article open access oridonin induces apoptosis and senescence in colorectal cancer cells by increasing histone hyperacetylation and regulation of p16, p21, **mitochondrial dna damage induces apoptosis in senescent cells** - mitochondrial dna damage induces apoptosis in senescent cells r-m laberge1, d adler2, m demaria1, n mechtouf3, r teachenor2, gb cardin3, p-y desprez1,4, j campisi1,2 and f rodier\*,1,2,3 senescence is a cellular response to damage and stress. the senescence response prevents cancer by suppressing the proliferation of cells with a compromised genome and contributes to optimal wound healing in ... **dual induction of apoptosis and senescence in cancer cells ...** - dual induction of apoptosis and senescence in cancer cells by chk2 activation: checkpoint activation as a strategy against cancer chang-rung chen,1 wenxian wang, 2harry a. rogoft,2 xiaotong li, **senescence, apoptosis or autophagy? - universidad de chile** - the incidence of cancer increases dramatically af-ter the age of 50, while the incidence of neurodegenera- tive disorders rises after the age of 70. one important distinction between these two classes of pathologies is the type of cells that they affect. cancer affects mitotic cells, while neurodegenerative disorders affect mainly postmitotic cells. so, the question arises of whether these ... **two-step senescence-focused cancer therapies - cell** - senescence-focused cancer therapies cynthia j. sieben,1,4 ines sturmelechner,2,3,4 bart van de sluis,3 and jan m. van deursen1,2,\* damaged cells at risk of neoplastic transformation can be neutralized by apoptosis or engagement of the senescence program, which induces perma-nent cell-cycle arrest and a bioactive secretome that is implicated in tumor immunosurveillance. while from an ... **targeted apoptosis of senescent cells restores tissue ...** - damage foxo4 favors senescence over apoptosis and main-tains viability of senescent cells by repressing their apoptosis response. foxo4-dri disrupts pml/dna-scars and releases active p53 in senescent cells interference with foxo4 signaling could be a strategy to elimi-nate senescent cells and thereby potentially target senes- cence-related diseases. however, shrna-mediated repression of foxo4 ... **the relationship between apoptosis and aging** - apoptosis is a process whereby cells activate an intrinsic cell suicide program that is one of the potential cellular responses, such as differentiation and proliferation. **valproic acid induces growth arrest, apoptosis, and ...** - valproic acid induces growth arrest, apoptosis, and senescence in medulloblastomas by increasing histone hyperacetylation and regulating expression of p21cip1, cdk4, and cmc xiao-nan li,1,2 qin shu,1,2 jack men-feng su,1,2 laszlo perlaky,2 susan m. blaney,2 and ching c. lau1,2 1laboratory of molecular neurooncology, cancer genomics program and 2texas children $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$ ™s cancer center, texas children ... **review the signals and pathways activating cellular senescence** - the signals and pathways activating cellular senescence ... grammed cell death $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$ "apoptosis. studies performed in recentyears,discussedbelowindetail,have shedmuch light on the mechanisms and molecular pathways re-sponsible for the activation of the senescence program. however, the physiologic role of senescence remains poorly understood. we have yet to identify the situa-tions in which it is ... **material-induced senescence (mis): fluidity induces ...** - that limits cancer progression by stable cell cycle arrest. this study examined for the first time the this study examined for the first time the effect of material fluidity on cellular senescence in lung carcinoma using poly(  $\hat{\phi}\hat{\Delta}\hat{\Delta}\hat{\phi}$ -caprolactone-

co -d, **a first-in-class inhibitor, mln4924 (pevonedistat ...** - treatment induced cell apoptosis, cell senescence, cell-cycle arrest at g2 phase, and dna damage in renal cancer cells. furthermore, we demonstrated that e2 conjugating enzymes of neddylation ube2m played a major role in regulating the proliferation of renal cancer cells. finally, we confirmed that mln4924 inhibited tumor growth in a rcc xenograft mouse model without serious toxic reactions ...

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