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Download Buku Hari Terakhir Kartosoewirjo Pdf 72 - Simple Steps to share it to your friends, be it's useful, have a great time! Also, don't forget to share bukuhariterakhirkartosoewirjopdfdownload - Simple Steps to save it to your device, applications, PC, laptops. bukuhariterakhirkartosoewirjopdfdownloadProgrammed cell death in eukaryotic cells is a genetically controlled process which protects cells from pathologic conditions. The fact that many cancers appear to show reduced rates of apoptosis compared with normal tissues suggests that defects in apoptosis control may play a role in the transformation and progression of cancer cells. However, there is limited information on the molecular mechanisms controlling programmed cell death in eukaryotic cells. The apoptosis regulator proteins Bax and Bak are key proapoptotic factors, and are known to participate in the activation of apoptotic factors, but do not themselves appear to be directly regulated by proapoptotic factors. We have recently identified the cAMP-dependent protein kinase (PKA) as a novel activator of Bax. The activation of Bax by PKA occurs by a direct phosphorylation event that converts Bax from a proapoptotic molecule into a mediator of apoptosis. In this competitive renewal, we will characterize the molecular mechanisms by which PKA regulates Bax and determine its role in the regulation of apoptosis in normal and malignant cells. The Specific Aims are to: 1. Determine if the apoptotic effect of PKA is due to Bax. The phosphorylation site in Bax that mediates PKA activation will be identified using site-directed mutagenesis. The activity of the phosphorylated Bax will be tested for its ability to induce apoptosis and to engage mitochondria. 2. Determine the nature of the association of Bax with PKA. PKA forms a complex with Bax, and we propose that the interaction of Bax and PKA in cells is important for Bax function. The nature of the association of Bax with PKA, and its contribution to Bax function, will be studied using recombinant proteins, site- directed mutagenesis, and PKA inhibitors. 3. Determine the role of Bax phosphorylation in mitochondrial translocation, mitochondrial outer membrane permeabilization, and cytochrome c release. We will use site-directed mut