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Cell Cycle Deregulation In Cancer

Deregulation of the cell cycle in cancer. 1. Cancer Detect Prev. 2000;24(2):107-18. Deregulation of the cell cycle in cancer.

Deregulation of the cell cycle in cancer.

The quality checkpoints activated after DNA damage are also discussed. The complexity of the regulation of the cell cycle is also reflected in the different alterations leading to aberrant cell proliferation and development of cancer. Consequently, targeting the cell cycle in general and CDK in particular presents unique opportunities for drug discovery. This review provides an overview

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of deregulation of the cell cycle in cancer.

The cell cycle: a review of regulation, deregulation and ...

This work identified proteins termed cyclins that fluxuate in abundance during progression through the cycle and partner with Cyclin dependent kinases (Cdks) to drive major cell cycle transitions. Much has been learned since about how these and other proteins control cell cycle progression in all eukaryotes, including man.

Cell Cycle Deregulation in Cancer | Greg H. Enders | Springer

The deregulation of the cell cycle is one of the hallmarks of cancer, where cell cycle proteins are mostly upregulated. 15, 16 Due to aberrant expression of cell cycle proteins, control over...

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Deregulation of the cell cycle in cancer - ResearchGate

Loss of normal cell cycle control is a hallmark of cancer, resulting in targeting of cell cycle regulators for cancer therapy. In general, strategies used to exploit the deregulated cancer cell cycle by directly targeting cell cycle regulators do not provide cancer specificity. This issue of Cancers invites contributions of original research reports, clinical studies, and review articles that focus on cancer specific modifications that would allow indirect targeting of cell cycle deregulation.

Cancers | Special Issue : Cell Cycle Deregulation in Cancers

Many cell cycle regulators controlling the correct entry and progression through the cell cycle are altered in tumors. In fact,

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most, if not all, human cancers show a deregulated control of G1 progression, a period when cells decide whether to start proliferation or to stay quiescent.

Cell cycle deregulation: a common motif in cancer.

Cell cycle deregulation associated with cancer occurs through mutation of proteins important at different levels of the cell cycle. In cancer, mutations have been observed in genes encoding CDK, cyclins, CDK-activating enzymes, CKI, CDK substrates, and checkpoint proteins (reviewed by Sherr 1996 ; McDonald & el Deiry 2000).

The cell cycle: a review of regulation, deregulation and ...

Deregulation of the cell cycle underlies the aberrant cell

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proliferation that characterizes cancer and loss of cell cycle checkpoint control promotes genetic instability. During the past two decades, cancer genetics has shown that hyperactivating mutations in growth signalling networks, coupled to loss of function of tumour suppressor proteins, drives oncogenic proliferation.

[The cell cycle and cancer - Williams - 2012 - The Journal ...](#)

Deregulation of cell signaling in cancer 1. Introduction. Oncogenic mutations disrupt the signaling systems that govern cell fate, endowing tumor cells with... 2. Cancer as a disorder of cell signaling. During development and tissue repair, individual cells or population of cells... 3. Powering the ...

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Deregulation of the cell cycle underlies the aberrant cell proliferation that characterizes cancer and loss of cell cycle checkpoint control promotes genetic instability. During the past two decades, cancer genetics has shown that hyperactivating mutations in growth signalling networks, coupled to loss of function of tumour suppressor proteins, drives oncogenic proliferation.

The Cell Cycle and Cancer

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The integrity of these processes is of utmost significance, and deregulation of cell-cycle regulatory mechanisms can contribute to tumorigenesis through a variety of discrete mechanisms, as will be discussed.

Cell cycle: Mechanisms of control and dysregulation in cancer

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These processes are crucial for normal cellular physiology and are

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affected in several pathological processes, including neurodegenerative diseases, and cancer. Some proteins, participating in clathrin-mediated endocytosis (CME), play an important role in actin cytoskeleton reorganization, and formation of invadopodia in cancer cells and are also deregulated in neurodegenerative disorders.

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Cell Cycle Deregulation in Cancer Elena Sotillo , Xavier Graña (auth.) , Greg H. Enders (eds.) Modern studies of regulation of the cell division cycle were pioneered by Leland Hartwell, Paul Nurse, and Tim Hunt in yeast and marine invertebrates.

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