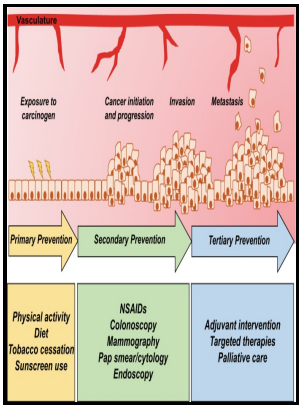
Cancer prevention - molecular mechanisms to clinical applications

New York Academy of Sciences - Molecular mechanisms of metastasis in breast cancer—clinical applications



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Annals of the New York Academy of Sciences -- v. 952Cancer prevention - molecular mechanisms to clinical applications
Notes: Includes bibliographical references and index.
This edition was published in 2001

Filesize: 15.53 MB

Tags: #Structural #Biology #and #Molecular #Applications #Research

Fasting: Molecular Mechanisms and Clinical Applications

Molecular mechanisms of PARP enzymes Tumor genomic instability results in DNA aberrations consisting of point mutations, tandem duplications and translocations, which induce carcinogenesis and tumor progression ,. A role for the NAD-dependent deacetylase Sirt1 in the regulation of autophagy.

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SIRT1 redistribution on chromatin promotes genomic stability but alters gene expression during aging. The aim of the present review was to discuss the current status of PARP inhibitors in terms of the mechanisms of action, molecular activity and clinical applications, as well as to evaluate their future prospective in oncological therapy.

Molecular mechanisms of metastasis in breast cancer—clinical applications

Detection of mutations in EGFR in circulating lung-cancer cells. The HIF-1 complex targets a consensus hypoxia response element in the promoter of several pro-angiogenic genes, in particular VEGF, activating their transcription. In the first-line setting, the disease response rate for gemcitabine plus nab-paclitaxel was 23%, and that for FOLFIRINOX leucovorin, fluorouracil, irinotecan, and oxaliplatin was 31.

Fasting and cancer: molecular mechanisms and clinical application

PMID: 28202779 Free PMC article. Table 1 An overview of HDACs. Nat Rev Mol Cell Biol.

Chinese herbal medicines for prevention and treatment of colorectal cancer: From molecular mechanisms to potential clinical applications

There are shared interests with Mechanisms of Cancer Therapeutics-1 MCT1 for applications that utilize preclinical models and clinical samples for the studies. Acknowledgements We sincerely apologize for unable to include many other valuable papers in this review due to the space limitation.

CPSS

Modulation of life-span by histone deacetylase genes in Saccharomyces cerevisiae. Metabolic enzymes like AMPK and GDH are also found to be regulated by HDACs, especially sirtuins.

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