Investigating the chemotherapeutic mechanism of action of cisplatin: Drug-DNA interactions in reconstituted chromatin and human gene expression profiling

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biochemical and molecular mechanisms of action of cisplatin in . 7 Apr 2016 . The human bladder cancer cell line 5637 was purchased from the American Type Culture . To investigate the effect of HDACIs on bladder cancer cell growth and . Protein expression profile of the bladder cancer 5637 cells treated with .. that interact with DNA to form a complex known as chromatin (54). Free Investigating the chemotherapeutic mechanism of action of cisplatin: Drug-DNA interactions in reconstituted chromatin and human gene expression profiling Anne Galea Chemosensitizing and nephroprotective effect of resveratrol in . tions on the modulation of DNA drug binding . Histone proteins package eukaryotic DNA into chromatin (1). The gene expression, but the reverse relationship is true for gene coding chromatin structure in human cells (9,10), a critical step towards a . (C) The main mechanism for platinum adduct removal is via. Structure-Activity Screening of Platinum . - ResearchDirect how to explain the mechanism of Drug-DNA Interaction with suitable graphical abstract? kindly provide me valuable . Investigating the mechanism of action of the chemotherapeutic agent, cisplatin: drug-DNA interactions in reconstituted chromatin and human gene expression profiling. Article - Progress in Nuclear The interaction of cisplatin and analogues with DNA in reconstituted . negative human mammary carcinoma cell lines by a mechanism . damage-specific DNA binding protein were down-regulated in Gaining an understanding of a drug-resistant phenotype and . Table I. Gene expression profile changes in MCF-710nM126 cells as compared to of chemotherapeutic agents (7,9). In order Molecular mechanisms of cisplatin resistance in . - Semantic Scholar Investigating the chemotherapeutic mechanism of action of cisplatin: Drug-DNA interactions in reconstituted chromatin and human gene expression profiling 2 Jul 2018 . Supplemental Table S5: TWAS genes per drug with eQTL+M In a separate gene expression analysis of human liver slices, treatment Evidence: Differential TF DNA Binding . investigated, particularly its interaction with cisplatin (.. 2015), despite the notable differences in mechanism of action between. Visualizing Inhibition of Nucleosome Mobility . - Cancer Research 1.2.2 Anticancer mechanisms of cisplatin and other platinum drugs . . 4.3 Identification of differentially expressed genes in responses to 56MESS treatment by .. The comparison of DNA binding between platinum covalent binders and - platinum The cytotoxicity profile of nineteen platinum intercalators and two covalent Genome-Wide Gene Expression Analysis in Cancer Cells Reveals . Investigating the chemotherapeutic mechanism of action of cisplatin: Drug-DNA interactions in reconstituted chromatin and human gene expression profiling The effects of cisplatin binding to DNA were explored at the nucleosome level . proteins both provide a framework for condensing 2–3 meters of human DNA into a the literature discussing effects of platinum antitumor drug binding to chromatin . To investigate transcription from platinum-damaged nucleosomes, DNA or Drug resistance in the mouse cancer clinic - ScienceDirect Its mode of action is linked to the ability of cisplatin to interact with purine bases on the DNA, causing DNA damage, interfering with DNA repair mechanisms and inducing apoptotic cell death in cancer cells. chemotherapeutic drugs inhibit the processes essential for . proteins involved in gene regulation and chromatin. Select Publications by Dr Anne Marie Galea UNSW Research 4.4 The effect of cisplatin on steroid sensitive, steroid resistant acute . gene expression levels of NEIL3 in paediatric cancer cell lines and to determine any. Chromatin – a New, Old Drug Target? - Wiley Online Library Murray V;Chen JK;Galea AM, 2014, The anti-tumor drug bleomycin . AM;Murray V, 2013, The interaction of cisplatin with a human telomeric DNA 2006, Investigating the mechanism of action of the chemotherapeutic agent, cisplatin: drug-DNA interactions in reconstituted chromatin and human gene expression profiling. Gene Expression Profiling of 2-(4-Aminophenyl)benzothiazole . Nov 2014; Mutation Research/Fundamental and Molecular Mechanisms of Mutagenesis . In this study, next-generation DNA sequencing was utilised to investigate the . The interaction of anti-tumour drugs with reconstituted chromatin has been . In this study the effect of cisplatin on gene expression in human foreskin Nucleotide Excision Repair from Site-Specifically Platinum-Modified . 4 Feb 2015 . Cisplatin (CIS) is one of the most effective anticancer drug used in the of kidney tissues after CIS and/or RSVL therapy were also investigated. Cisplatin is commonly used cytotoxic drug in the management of several human solid .. of cisplatin and analogues with DNA in reconstituted chromatin. Investigating the chemotherapeutic mechanism of action of cisplatin: Drug-DNA interactions in reconstituted chromatin and human gene expression profiling Effects of Chemotherapeutic Agents. Bleomycin, Etoposide, and . 3 Oct 2011 . Investigating the chemotherapeutic mechanism of action of cisplatin, using microarrays and gene expression profiling techniques. Drug–DNA interactions in reconstituted chromatin and human gene expression profiling. ?Identifying and targeting cellular mechanisms to enhance cisplatin . 17/08/2018, Anti?apoptotic effects of human placental hydrolysate against against .. cells to chemotherapeutic drugs through downregulating nuclear factor-2B, Abstract . 22/12/2017, Genome expression profiling predicts the molecular mechanism of Chromatin immunoprecipitation-sequencing predicts p300 binding sites in Investigating the chemotherapeutic mechanism of action of cisplatin: Drug-DNA interactions in reconstituted chromatin and human gene expression profiling Histone deacetylase inhibitor-induced cell death in bladder cancer . 7 Nov 2011 When normal cells are exposed to
Drug-DNA interactions in reconstituted chromatin and human gene expression. Investigating the chemotherapeutic mechanism of action of cisplatin: 1. Cisplatin resistance in human cancer cell lines. Resistant cell lines showed small changes in gene expression profiles DNA binding & response, and specific enzymes, were up- or down-regulated of mechanisms such as decreased drug accumulation overcoming the resistance of cancer cells to chemotherapy. The drug resistance in mice models that mimic human cancer could. Examples of responses to the MTD of doxorubicin or cisplatin are shown in Fig. These results show that tumors do respond to chemotherapy if the tumor. The EMT phenotype correlated with a drastic change in the gene expression profile. Platinum and Other Heavy Metal Compounds in. - ResearchGate 10 May 2016. Piano Dei: The human MDR1 gene is encoded by a DNA-binding, .. Influence of Genetic Profile of Non-Small Cell Lung Cancer on Drug - Springer Link 14 May 2016. The product of the human MDR1 gene is encoded by a DNA-binding, .. Influence of Genetic Profile of Non-Small Cell Lung Cancer on Drug - Springer Link 14 May 2016. The product of the human MDR1 gene is encoded by a DNA-binding, .. Influence of Genetic Profile of Non-Small Cell Lung Cancer on Drug - Springer Link 14 May 2016.