

drug resistance in cancer pdf

The multidrug-resistance protein (MRP) has been recognized as being correlated with drug resistance in cancer chemotherapy for some time. MRP is a trans-membrane protein which is, in part, responsible for the resistance of human tumor cells to cytotoxic drugs.

Drug Resistance in Cancer - an overview | ScienceDirect Topics

Cancer drug resistance continues to be a major impediment in medical oncology. Clinically, resistance can arise prior to or as a result of cancer therapy. In this review, we discuss different mechanisms adapted by cancerous cells to resist treatment, including alteration in drug transport and metabolism, mutation and amplification of drug targets, as well as genetic rewiring which can lead to impaired apoptosis.

Mechanisms and insights into drug resistance in cancer

Cancer Drug Resistance is an open access journal, focusing on pharmacological aspects of drug resistance and its reversal, molecular mechanisms of drug resistance and drug classes, etc. Both clinical and experimental aspects of drug resistance in cancer are included.

Cancer Drug Resistance

Request PDF on ResearchGate | Mechanisms of Drug Resistance in Cancer Chemotherapy | The management of cancer involves procedures, which include surgery, radiotherapy and chemotherapy.

Mechanisms of Drug Resistance in Cancer Chemotherapy

Cancer drug resistance is a complex phenomenon that is influenced by drug inactivation, drug target alteration, drug efflux, DNA damage repair, cell death inhibition, EMT, inherent cell heterogeneity, epigenetic effects, or any combination of these mechanisms.

Drug Resistance in Cancer: An Overview - PubMed Central (PMC)

Lastly, this review concludes with a discussion on the best treatment options for existing drug resistant cancers, ways to prevent the formation of drug resistant cancers and cancer progenitor cells, and future directions of study.

Cancers | Free Full-Text | Drug Resistance in Cancer: An

To circumvent resistance issues, we have designed a new class of macromolecules as self-contained chemotherapeutic agents. The macromolecular chemotherapeutic agents readily self-assemble into well-defined nanoparticles and show excellent activity in vitro against multiple cancer cell lines.

Addressing Drug Resistance in Cancer with Macromolecular

Cancers 2014, 6 1772 drug resistance in cancer. On the other hand, CYP1A1 and CYP1A2 metabolize procarcinogens into carcinogenic forms in the liver, and most anticancer drugs are metabolized by this method.

Drug Resistance in Cancer: An Overview - DASH Harvard

An Elementary Approach to Modeling Drug Resistance in Cancer Cristian Tomasetti 1Doron Levy December 17, 2009 Abstract Resistance to drugs has been an ongoing obstacle to a successful treatment of many

An Elementary Approach to Modeling Drug Resistance in Cancer

Although one of the major biological effects of verapamil is the blockage of the slow-channel-mediated

calcium entry into cardiac cells (Kohlhardt et al. 1972) and drug-resistant cancer cells (Bucana et al. 1990), its MDR-reversing mechanism is not clearly understood and may be quite apart from its physiologic action, in which a trial depolarization plays an important role and is related to the fast-channel effect for sodium influx (Rougier et al. 1969).

Drug Resistance in Cancer Cells - PDF Free Download

The Dynamics of Drug Resistance in Cancer! Doron Levy!! Department of Mathematics! Center for Scientific Computation and Mathematical Modeling! University of Maryland, College Park!

The Dynamics of Drug Resistance in Cancer

The treatment of cancer has made great progress. However, drug resistance remains problematic. Multiple physiologic processes of tumor development can be dominated by central and sympathetic nervous systems.

Neural regulation of drug resistance in cancer treatment

(alternating doses of non-cross-resistant drugs) should be as good as, and perhaps better than, sequential chemotherapy (m doses of first drug followed by n doses of second drug) in controlling drug resistance.

ELSEVIER A Mathematical Model of Drug Resistance

MECHANISMS OF DRUG RESISTANCE THAT INCREASE DRUG EFFLUX FROM CANCER CELLS It came as something of a surprise that the major mechanism of multidrug resistance in cultured cancer cells was the expression of an energy-dependent drug efflux pump, known alternatively as P-glycoprotein (P-gp) or the multidrug transporter (14,15).

Michael M. Gottesman - UW Hematology Protocols

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