# Characterization of a topoisomerase IIgas gene rearrangement in adriamycin-resistant P388 leukemia

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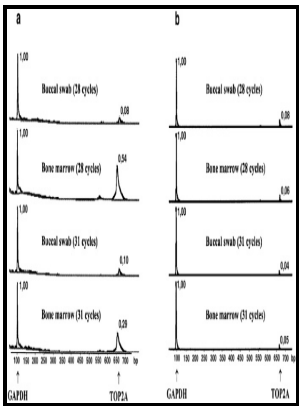


Description: -
-Characterization of a topoisomerase IIgas gene rearrangement in adriamycin-resistant P388 leukemia
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Tags: #Natural #and #Acquired #Resistance #to #Cancer #Therapies

**Frontiers**

Br J Cancer 1997 76 486 93 10.

**DNA topoisomerase II mutations and resistance to anti-tumor drugs, BioEssays**

A similar tendency towards decreased transgene expression levels was also observed following administration of vincristine. Although these drugs block the formation of glucosylceramide from ceramide , , , , , direct interaction with GCS has not been demonstrated. ERCC1 and RRM1 gene expressions but not EGFR are predictive of shorter survival in advanced non-small-cell lung cancer treated with cisplatin and gemcitabine.

**WikiGenes**

In the past, the main effort was aimed at developing highly specific inhibitors acting on single RTKs. Other gene products that interact with topoisomerase II for chromosome segregation Focusing exclusively on topoisomerase II as the enzyme responsible for chromosome segregation at mitosis is too simplistic, given the high complexity of molecular interactions during cell division. Alterations in the levels or affinity of these enzymes in the cellular system develop the drug resistance.

**DGIdb**

Much progress has been made in identifying agents and developing strategies for enhancing cellular accumulation of topo II inhibitors in tumors with the MDR phenotype.

**Characterization of camptothecin**

Jacoby DR, Fraefel C and Breakefield XO.

**Targeting Ceramide Metabolism—a Strategy for Overcoming Drug Resistance**

Additional research or modeling is also needed to identify what combination of targets can be expected to optimize therapy for particular cancer types. Breast cancer stem cells: Obstacles to therapy. Structure activity relationship study suggested that phenol moiety at 4-position of the central pyridine regardless of chlorophenyl moiety at 2-position of the central pyridine has an important role in dual topoisomerase inhibitory activity as well as antiproliferative activity.

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