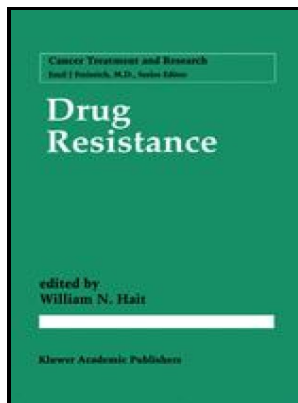


# Characterization of a topoisomerase II $\alpha$ gene rearrangement in adriamycin-resistant P388 leukemia

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## Targeting the Achilles Heel of Multidrug

To achieve higher likelihood of therapeutic success, a complete understanding of the mechanisms underlying chemo-resistance is needed. In this review, we update our current knowledge of resistance to the antitumor inhibitors of the type II DNA topoisomerases, with special emphasis on the catalytic inhibitors, since novel catalytic inhibitor resistance cell lines have only recently been described. Copyright © 2008 The Korean Society of Cardiology Effects of Cardiotrophin-1 on Adriamycin-Induced Apoptosis in H9c2 Cardiomyoblasts Jae-Ok Shin, MS, Eun-Seon Ju, BS, Hyun-Mi Song, MS, Soo-Hyeon Yun, MS, Byung-Kwan Lim, PhD, Jin-Ho Choi, MD, Duk-Kyung Kim, MD and Eun-Seok Jeon, MD Department of Medicine, Sungkyunkwan University School of Medicine, Cardiac and Vascular Center, Samsung Medical Center, Seoul, Korea.

## Emerging targets in cancer drug resistance

Pharmacological depletion of tumoral ATP levels was initially suggested because of the characteristically increased metabolism and the consequent vulnerability of cancer cells. The ability to block ceramide glycosylation makes the imino sugars promising therapeutic agents for the treatment strategy shown in Fig. Journal of Medicinal Chemistry 2020, 63 3, 1434-1439.

## Reversal effect of itraconazole on adriamycin and etoposide resistance in human leukemia cells

Studies — suggest that the dysfunctional metabolism of ceramide, a lipid second messenger, may contribute to multidrug resistance. Nucleotide sequence of a type II DNA topoisomerase gene.

:: KCJ :: Korean Circulation Journal

Most who succumb to cancer die because their disseminated cancer does not respond to available chemotherapies.

## Resistance to inhibitors of DNA topoisomerases

Capranico G, De Isabella P, Castelli C, Supino R, Parmiani G, Zunino F.

### **Natural and Acquired Resistance to Cancer Therapies**

GSH serves many important cellular roles as a redox regulator, cofactor, substrate, and antioxidant. . A screen dedicated to improving the treatment of neuroblastoma and other MRP1-overexpressing drug-refractory tumors revealed pyrazolopyrimidines as a prominent structural class of potent MRP1 inhibitors.

### **Altered topoisomerase I activity and recombination activating gene expression in a human leukemia cell line resistant to doxorubicin**

The role of ABC transporters in drug resistance, metabolism and toxicity. Phase II study of tariquidar, a selective P-glycoprotein inhibitor, in patients with chemotherapy-resistant, advanced breast carcinoma.

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