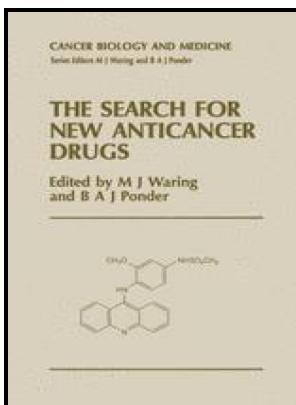


# Antitumour imidazotetrazines - probes for the major groove of DNA.

Aston University. Department of Pharmaceutical Sciences - Nucleic acid



Description: -

-Antitumour imidazotetrazines - probes for the major groove of DNA.

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**Dr Richard Wheelhouse, Reader in Medicinal Chemistry at the University of Bradford**

Journal of Pharmacology and Experimental Therapeutics 2002, 303 1 , 238-246. Determination of the DNA binding constant of MTA and MSK by UV melting studies UV melting studies and DSC were used to determine the binding constant for the interaction of MTA and MSK with salmon testes DNA.

## DNA and its associated processes as targets for cancer therapy

DCMCIT, an analogue of the antitumour drugs mitozolomide and temozolomide. DeltaMGMT-transduced bone marrow infusion increases tolerance to O6-benzylguanine and 1,3-bis 2-chloroethyl -1-nitrosourea and allows intensive therapy of 1,3-bis 2-chloroethyl -1-nitrosourea-resistant human colon cancer xenografts.

## DNA and its associated processes as targets for cancer therapy

Wilson ID, Nicholson JK 1988 Solid phase extraction chromatography and NMR spectroscopy SPEC-NMR for the rapid identification of drug metabolites in urine.

## Mechanism of DNA Binding and Cleavage

Platinum—DNA adduct, nucleotide excision repair, and platinum-based anti-cancer chemotherapy. Figure 7 Nucleophilicity of adenine and guanine The N 7 atom of guanine and the N 3 atom of adenine are nucleophilic and are exposed in the grooves of the DNA duplex.

## Altered Cleavage of DNA Sequences by Bleomycin and Its Deglycosylated Derivative in the Presence of Actinomycin

## **Electrostatic potential and binding of drugs to the minor groove of DNA**

Ethyleneimines aziridines Ethyleneimines are pre-formed aziridines and as a result constitute a natural addition of nitrogen mustards mechanism of action of the mustards begins with the formation of an electrophilic aziridinium ion by displacement of chloride. New syntheses of the antitumour drug temozolomide using masked methyl isocyanates.

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