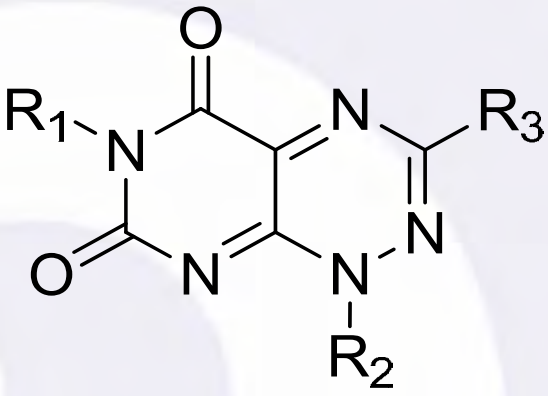
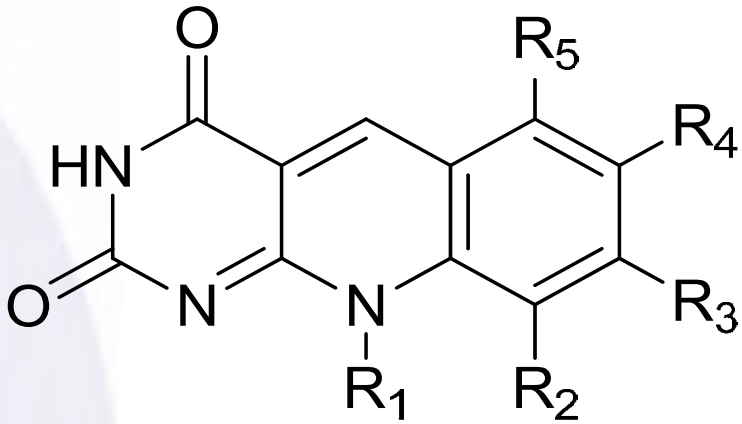
Poster 52

The discovery and optimisation of selective small-molecule inhibitors of human 5'-tyrosyl DNA phosphodiesterase 2 (Tdp2)

- Tdp2 plays a central role in maintaining normal DNA topology in cells, through repairing topo-mediated DNA damage
- Cellular depletion of Tdp2 is reported to result in an increased susceptibility and sensitivity to topo II-induced DNA double strand breaks
- Selective pharmacological inhibition of Tdp2 may be a novel approach to overcome intrinsic or acquired resistance to topo II targeted drug therapy



Toxoflavin derivatives display strong assay interference potential and should be treated with ***extreme caution***



Deazaflavin derivatives potential tools to explore the pharmacology of Tdp2 in cancer using A549 cell lysates.

© Paterson Institute for Cancer Research

CANCER RESEARCH UK | PATERSON INSTITUTE | DRUG DISCOVERY