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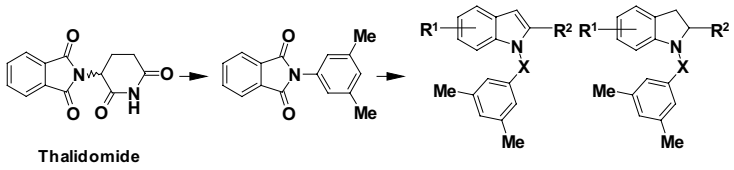
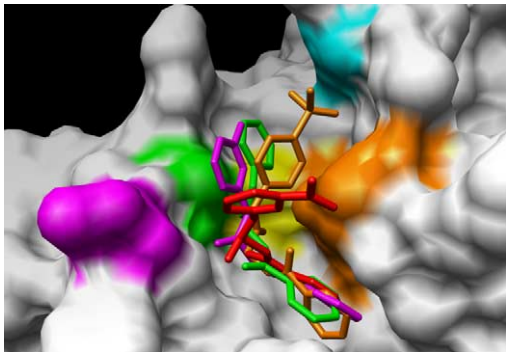
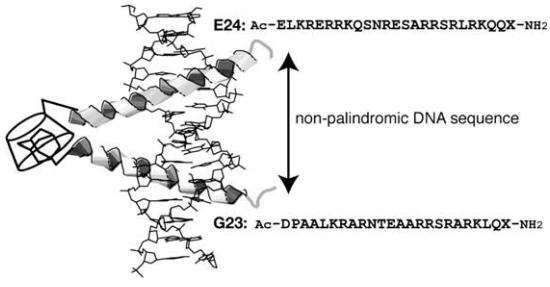
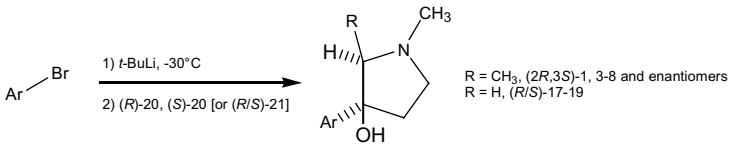
ARTICLES

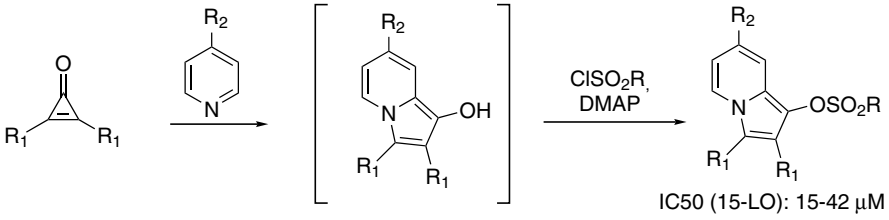


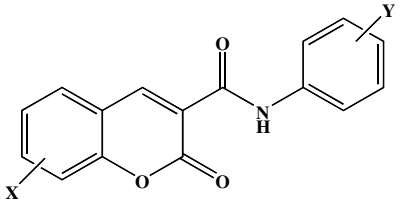
A series of substituted indoline and indole derivatives with cyclooxygenase (COX)-inhibitory activity was prepared during our structural development studies based on thalidomide as a multi-template lead compound.

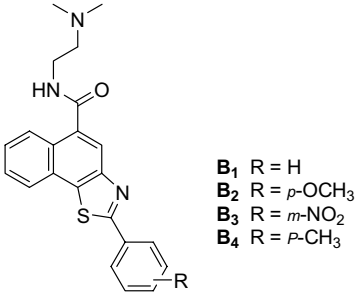


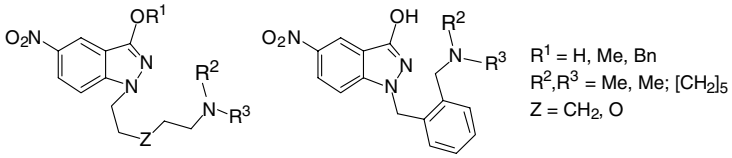




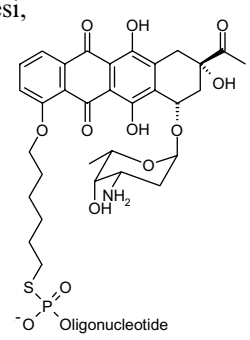




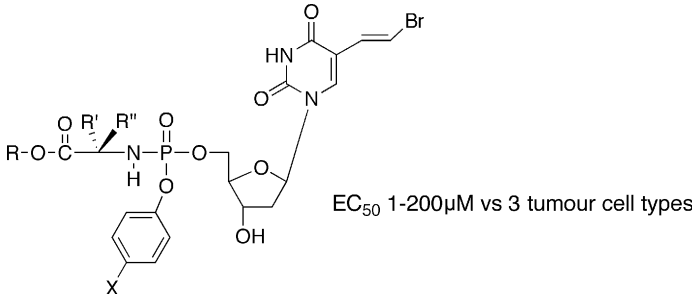


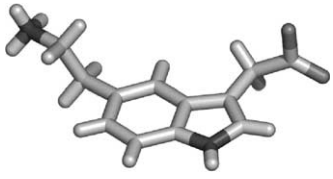


A series of new 3-alkoxy- or 3-hydroxy-1-[ω-(dialkylamino)alkyl]-5-nitroindazoles were synthesized and their trichomonacidal, antichagasic and antineoplastic activities studied. QSAR studies were carried out.

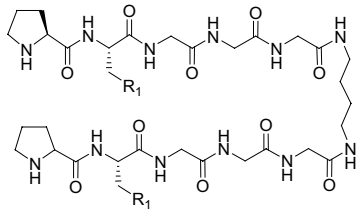


Synthesis and hybridisation properties of daunomycin–oligonucleotide conjugates designed to bind the polypurine tract of HIV. The conjugation enhances the binding affinity of the oligonucleotide for its DNA target, and expands the number of tools that can be used, in the triplex approach, to selectively switch-off genes.

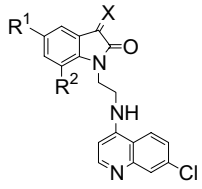




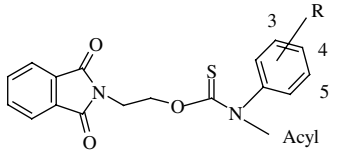
5- and 6-Aminoethyl derivatives of indole-3-acetic acid (IAA), a hormone (auxin) in plants and an important metabolite in humans, animals, and microbes, were found suitable for coupling of the IAA moiety to macromolecular carriers (example: albumin) and molecular probes (example: biotin).



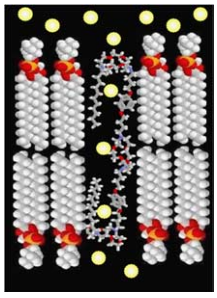
We report construction of a bis-pentapeptide conjugate containing truncated sequence from prion octarepeats. Its copper-laden derivative demonstrated a propensity to aggregate and ensuing oxidative transformations using metalated conjugate afforded facile plasmid modification and neurotransmitter oxidation.



A new series of 4-aminoquinoline isatin derivatives were synthesized and screened for in vitro anti-plasmodial activity and inhibition of falcipain-2. These compounds showed IC_{50} values in the range of 0.05–2 μM against drug resistant and sensitive strains of *P. falciparum*.



Topological models for prediction of anti-HIV activity of acylthiocarbamates have been developed. Accuracy of prediction of these models was found to be 95–98%.



OTHER CONTENTS

*Corresponding author
ⓘ+ Supplementary data available via ScienceDirect

COVER

2005: Human liver glycogen phosphorylase A (HLGPa) is an attractive target enzyme for discovering anti-type 2 diabetes drugs. This picture shows the interaction model for a series of indole-2-carboxamides to HLGPa derived from molecular docking simulations [Liu, G.; Zhang, Z.; Luo, X.; Shen, J.; Liu, H.; Shen, X.; Chen, K.; Jiang, H. *Bioorg. Med. Chem.* **2004**, *12*, 4147–4157].

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