



European Journal of Medicinal Chemistry Vol 81, 2014

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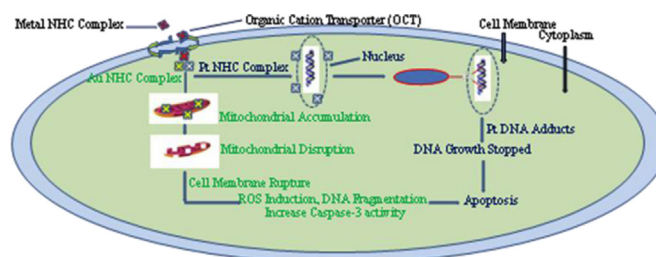
MINI-REVIEW

Recent developments of metal N-heterocyclic carbenes as anticancer agents

pp. 408–419

Sainath Babaji Aher, Prashant Narayan Muskawar, K. Thenmozhi and Pundlik Rambhau Bhagat*

Au and Pt NHC complexes upon entering cell, targets mitochondria and DNA respectively. Au NHC causes mitochondrial disruption leading to apoptosis while Pt NHC targets DNA ensuing cytostasis or cell death.

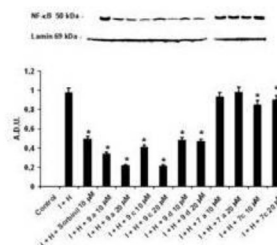
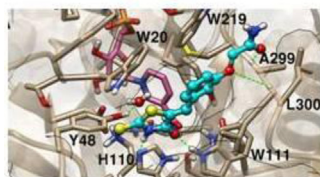


ORIGINAL ARTICLES

Structure–activity relationships and molecular modelling of new 5-arylidene-4-thiazolidinone derivatives as aldose reductase inhibitors and potential anti-inflammatory agents

pp. 1–14

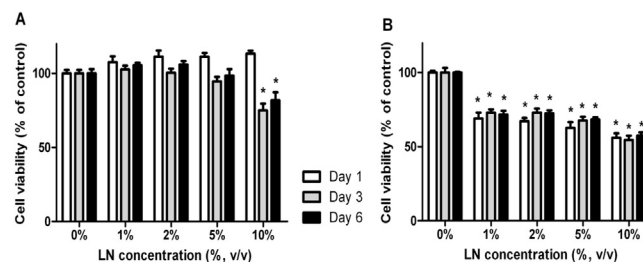
Rosanna Maccari, Rosa Maria Vitale, Rosaria Ottanà*, Marco Rocchiccioli, Agostino Marrazzo, Venera Cardile, Adriana Carol Eleonora Graziano, Pietro Amodeo, Umberto Mura and Antonella Del Corso

**Solid lipid nanoparticles for hydrophilic biotech drugs: Optimization and cell viability studies (Caco-2 & HEPG-2 cell lines)**

pp. 28–34

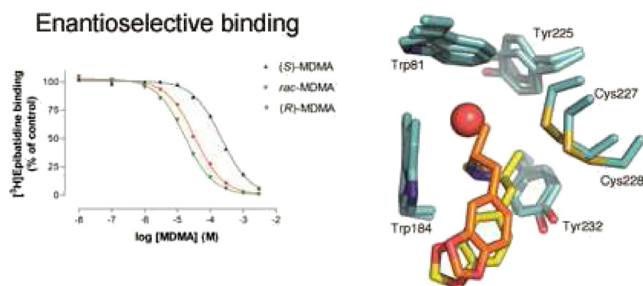
Patrícia Severino, Tatiana Andreani, Alessandro Jäger, Marco V. Chaud, Maria Helena A. Santana, Amélia M. Silva and Eliana B. Souto*

Cell viability of Caco-2 (A) and HepG2 (B) cells exposed to Softisan® 100 Lipid Nanoparticles (at 1%, 2%, 5% and 10%, v/v, diluted in FBS-free culture media) prepared by double emulsion technique. Results are expressed as % of control (untreated cells), and are average values ($n = 3$) \pm S.D.



Molecular basis of the selective binding of MDMA enantiomers to the alpha4beta2 nicotinic receptor subtype: Synthesis, pharmacological evaluation and mechanistic studies pp. 35–46

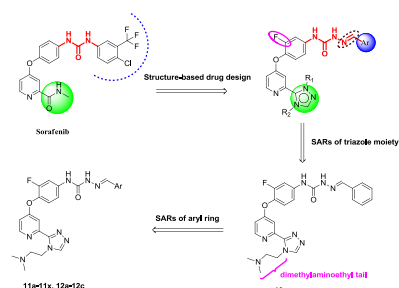
Salomé Llabrés, Sara García-Ratés, Edgar Cristóbal-Lecina, Antoni Riera, José Ignacio Borrell, Jorge Camarasa, David Pubill, F. Javier Luque and Elena Escubedo*



Design and synthesis of novel 2-(4-(2-(dimethylamino)ethyl)-4H-1,2,4-triazol-3-yl)pyridines as potential antitumor agents pp. 47–58

Mingze Qin, Xin Zhai, Hongbo Xie, Junjie Ma, Kuan Lu, Yu Wang, Lihui Wang, Yucheng Gu and Ping Gong*

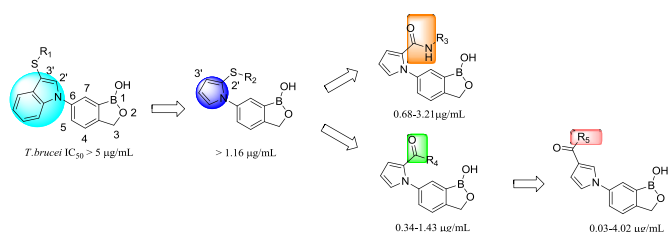
A series of 2-(4-(2-(dimethylamino)ethyl)-4H-1,2,4-triazole-3-yl)pyridine derivatives were synthesized. These analogs demonstrated potent antitumor potency and good enzyme selectivity, many of them could be served as promising candidates for further development.



Novel pyrrolobenzoxaboroles: Design, synthesis, and biological evaluation against Trypanosoma brucei pp. 59–75

Puhua Wu, Jiong Zhang, Qingqing Meng, Bakela Nare, Robert T. Jacobs and Huchen Zhou*

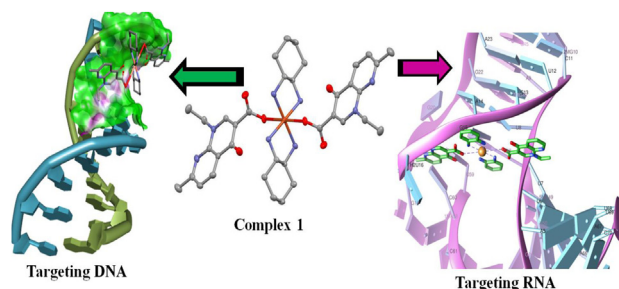
A new class of benzoxaboroles were synthesized as antitrypanosomal agents and showed IC₅₀ as low as 0.03 µg/mL. Three of the lead compounds eliminated parasitic infection in a murine model.



Synthesis, crystal structure and antiproliferative activity of Cu(II) nalidixic acid–DACH conjugate: Comparative in vitro DNA/RNA binding profile, cleavage activity and molecular docking studies pp. 76–88

Farukh Arjmand*, Imtiaz Yousuf, Taibi ben Hadda and Loic Toupet

Targeting DNA and RNA by molecular docking studies.



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