

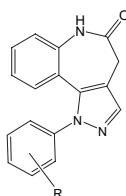
European Journal of Medicinal Chemistry Vol 42, No 11-12, 2007

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ORIGINAL ARTICLES

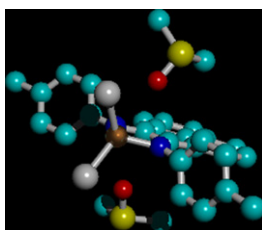
- 1-Aryl-4,6-dihydropyrazolo[4,3-*d*][1]benzazepin-5(1*H*)-ones: A new class of antiproliferative agents with selectivity for human leukemia and breast cancer cell lines** pp. 1317–1324

Simone Kohfeld, Peter G. Jones, Frank Totzke, Christoph Schächtele, Michael H.G. Kubbutat and Conrad Kunick*



- Solvatochromism, DNA binding, antitumor activity and molecular modeling study of mixed-ligand copper(II) complexes containing the bulky ligand: Bis[*N*-(*p*-tolyl)imino]acenaphthene** pp. 1325–1333

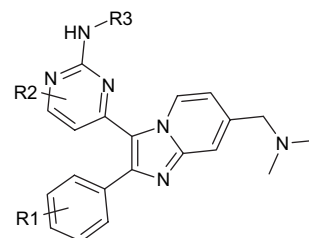
Usama El-Ayaan*, Alaa A.-M. Abdel-Aziz and Shar Al-Shihry



- Synthesis and biological activity of imidazopyridine anticoccidial agents: Part I** pp. 1334–1357

Andrew Scribner*, Richard Dennis, Jean Hong, Shuliang Lee, Donald McIntyre, David Perrey, Dennis Feng, Michael Fisher, Matthew Wyvratt, Penny Leavitt, Paul Liberator, Anne Gurnett, Chris Brown, John Mathew, Donald Thompson, Dennis Schmatz and Tesfaye Biftu

In this study, we present the synthesis and biological activity of imidazo[1,2-*a*]pyridine anticoccidial agents, whose antiparasitic activity against *Eimeria* is due to inhibition of a parasite specific cGMP-dependent protein kinase (PKG). From this series, several compounds showed subnanomolar in vitro activity and commercial levels of in vivo activity. However, the potential genotoxicity of these compounds precludes them from further development.

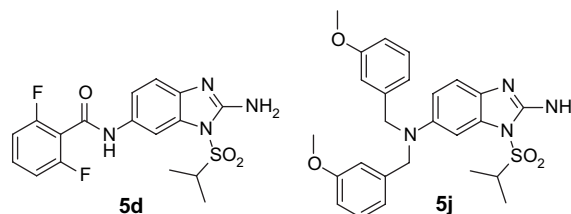


Identification of 1-isopropylsulfonyl-2-amine benzimidazoles as a new class of inhibitors of hepatitis B virus

pp. 1358–1364

Yun-Fei Li, Gui-Feng Wang, Yu Luo, Wei-Gang Huang, Wei Tang, Chun-Lan Feng, Li-Ping Shi, Yu-Dan Ren, Jian-Ping Zuo* and Wei Lu**

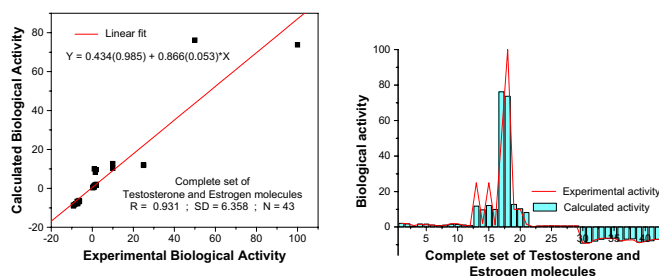
Synthesis of a series of 1-isopropylsulfonyl-2-amine benzimidazoles and their significant inhibitory activities against hepatitis B virus in vitro is presented.



An atom counting strategy towards analyzing the biological activity of sex hormones

pp. 1365–1369

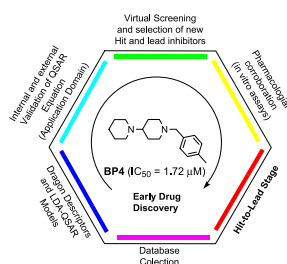
D.R. Roy, N. Pal, A. Mitra, P. Bultinck, R. Parthasarathi, V. Subramanian and P.K. Chattaraj*



Dragon method for finding novel tyrosinase inhibitors: *Biosilico* identification and experimental *in vitro* assays

pp. 1370–1381

Gerardo M. Casañola-Martín, Yovani Marrero-Ponce*, Mahmud Tareq Hassan Khan, Arjumand Ather, Khalid M. Khan, Francisco Torrens and Richard Rotondo

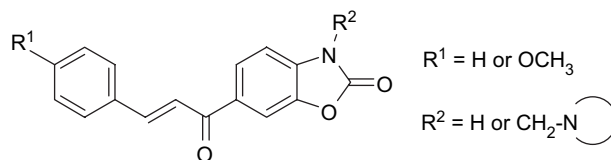


SHORT COMMUNICATIONS

Cytotoxic Mannich bases of 6-(3-aryl-2-propenoyl)-2(3*H*)-benzoxazolones

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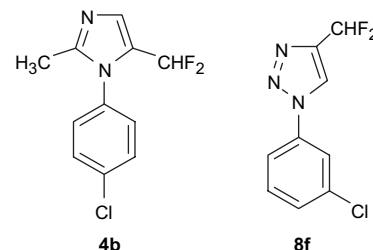
Y. Ivanova, G. Momekov, O. Petrov*, M. Karaivanova and V. Kalcheva



Synthesis and evaluation of new difluoromethyl azoles as antileishmanial agents**pp. 1388–1395**

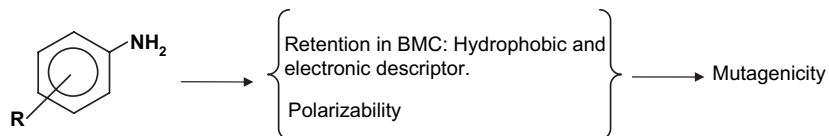
Sabrina B. Ferreira, Marília S. Costa, Núbia Boechat, Rômulo J.S. Bezerra, Marcelo S. Genestra, Marilene M. Canto-Cavalheiro, Warner B. Kover and Vitor F. Ferreira*

We have synthesized and evaluated new imidazole and triazole compounds against promastigote forms of *Leishmania amazonensis*. Among the compounds tested difluoromethylene azoles **4b** and **8f** have inhibited the parasite growth significantly.

**Biopartitioning micellar chromatography to predict mutagenicity of aromatic amines****pp. 1396–1402**

S. Torres-Cartas, Y. Martín-Biosca, R.M. Villanueva-Camañas, S. Sagrado and M.J. Medina-Hernández*

In this paper the usefulness of BMC for predicting aromatic amines' mutagenicity is demonstrated.



$$\ln R = (-11.0 \pm 1.5) + (1.8 \pm 0.5) \ln k_2 + (0.22 \pm 0.03) \text{ polarizability}$$

$$N = 20; r^2 = 0.86 \text{ S.E.} = 0.80; F = 52; P < 0.0001$$

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* Corresponding authors

COVER

a) Views of the CoMFA steric field contour maps for the model VI, the steric field was contoured at 0.075 and -0.075 levels. Compound **36** is superimposed in the map. **b)** Views of the CoMFA electrostatic field contour maps for the model VI, the electrostatic field was contoured at 0.075 and -0.075 levels. Compounds **36** is superimposed in the maps.



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