

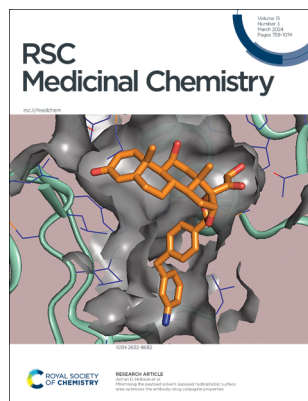
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IN THIS ISSUE

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Cover

See Adrian D. Hobson *et al.*, pp. 832–838.
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REVIEWS

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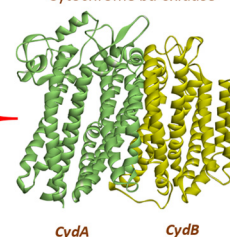
Cytochrome *bd* oxidase: an emerging anti-tubercular drug target

Pallavi Saha, Samarpita Das, Harish K. Indurthi, Rohit Kumar, Arnab Roy, Nitin Pal Kalia and Deepak K. Sharma*

Cytochrome *bd* oxidase inhibitors

- Aurachin D and its analogues
- Quinazoline-4-amine and its analogue
- Thieno[3,2-*d*] pyrimidin-4-amines
- Amiloride analogue
- 2-(Quinolin-4-yloxy)acetamides and (4-oxoquinazoline-3(4*H*)-yl)acetamide
- 2-Aryl-quinolone
- 1-Hydroxy-2-methylquinolin-4(1*H*)-ones

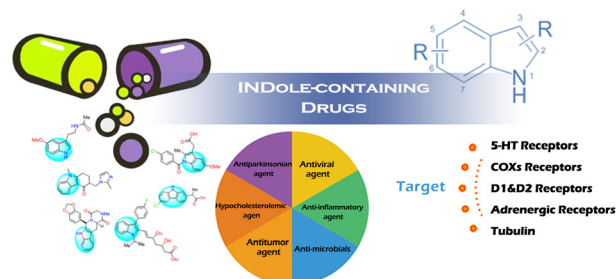
Cytochrome *bd* oxidase



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Indole-containing pharmaceuticals: targets, pharmacological activities, and SAR studies

Wei Zeng, Chi Han, Sarah Mohammed, Shanshan Li, Yixuan Song, Fengxia Sun* and Yunfei Du*



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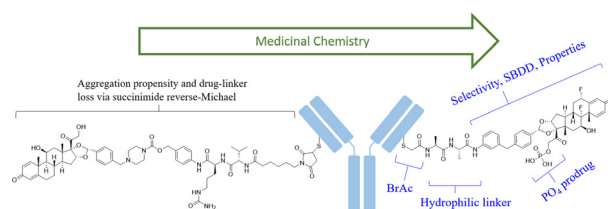


REVIEWS

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The medicinal chemistry evolution of antibody–drug conjugates

Adrian D. Hobson*

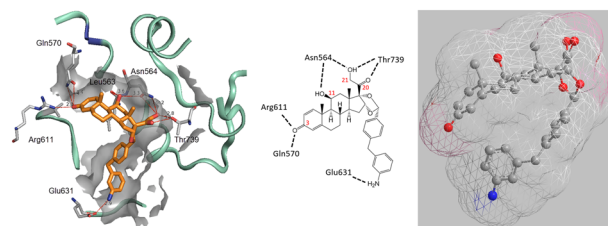


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Minimising the payload solvent exposed hydrophobic surface area optimises the antibody–drug conjugate properties

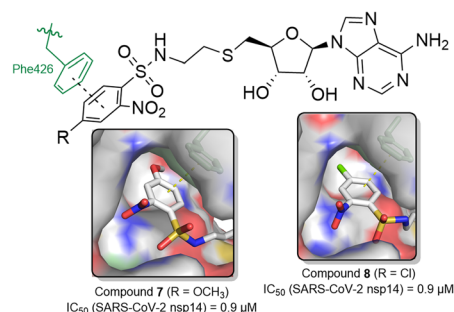
Adrian D. Hobson,* Haizhong Zhu, Wei Qiu, Russell A. Judge and Kenton Longenecker



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N-Arylsulfonamide-based adenosine analogues to target RNA cap N7-methyltransferase nsp14 of SARS-CoV-2

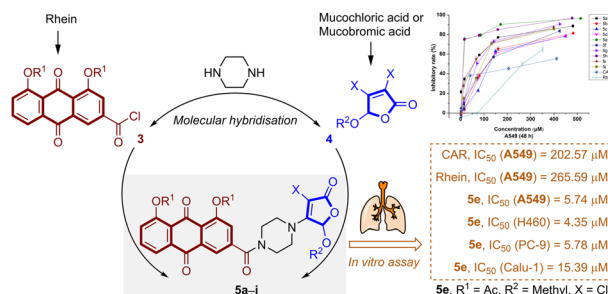
Rostom Ahmed-Belkacem, Joris Troussier, Adrien Delpal, Bruno Canard, Jean-Jacques Vasseur, Etienne Decroly* and Françoise Debart*



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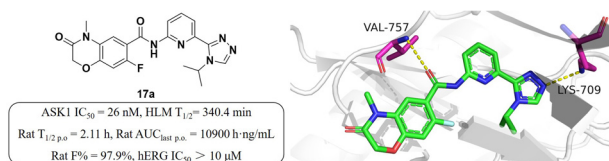
Design, synthesis and biological evaluation of rhein–piperazine–furanone hybrids as potential anticancer agents

Yu He, Si-Si Zhang and Meng-Xue Wei*



RESEARCH ARTICLES

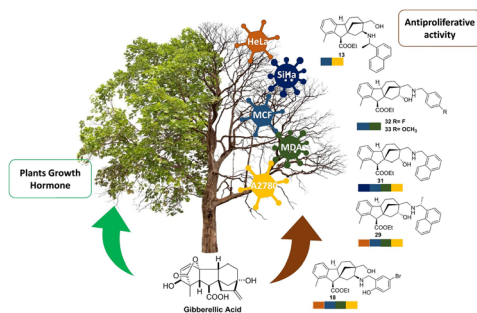
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Discovery of benzoheterocyclic-substituted amide derivatives as apoptosis signal-regulating kinase 1 (ASK1) inhibitors

Lin Tang, Minxiong Li, Changlin Bai, Xuejin Feng, Haiyang Hu, Yufen Yao, Baiqing Li, Hongwei Li, Guohong Qin, Ning Xi,* Genpin Lv* and Lei Zhang*

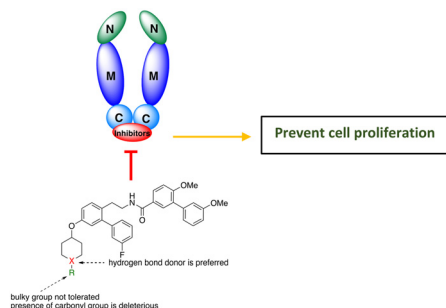
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Stereoselective synthesis and antiproliferative activity of *allo*-gibberic acid-based 1,3-aminoalcohol regioisomers

Zein Alabdeen Khdar, Tam Minh Le, Zsuzsanna Schelz, István Zupkó and Zsolt Szakonyi*

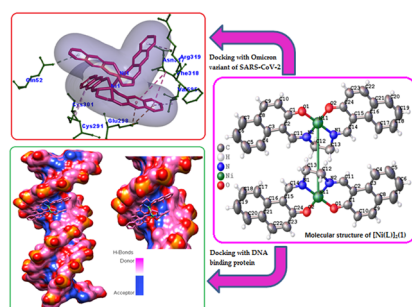
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Development of Hsp90 C-terminal inhibitors with noviomimetics that manifest anti-proliferative activities

Eva Amatya, Chitra Subramanian, Mark S. Cohen* and Brian S. J. Blagg*

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Unusual Ni...Ni interaction in Ni(II) complexes as potential inhibitors for the development of new anti-SARS-CoV-2 Omicron drugs

Simranjeet Singh and Mukesh Choudhary*

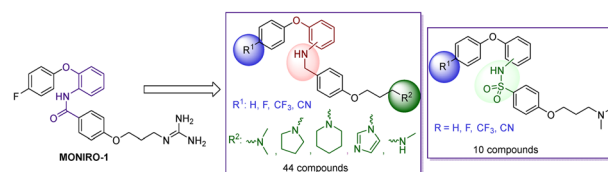


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Inhibition of N-type calcium channels by phenoxyaniline and sulfonamide analogues

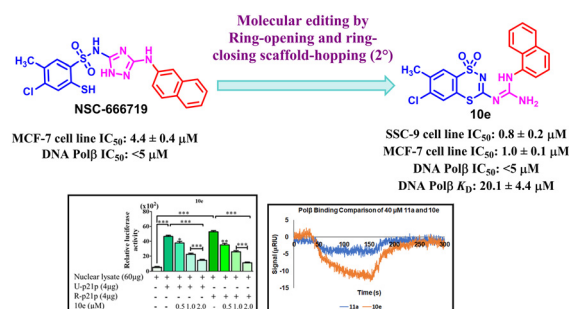
Anjie S. Bispat, Fernanda C. Cardoso, Md. Mahadhi Hasan, Yashad Dongol, Ricki Wilcox, Richard J. Lewis, Peter J. Duggan* and Kellie L. Tuck*



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Molecular editing of NSC-666719 enabling discovery of benzodithiazinedioxide-guanidines as anticancer agents

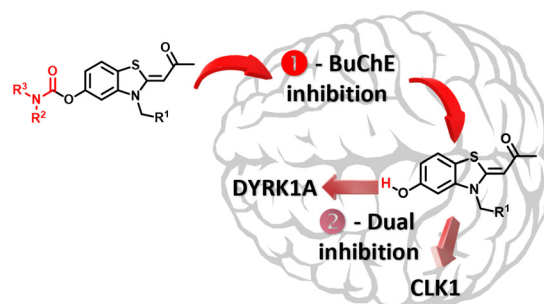
Vajja Krishna Rao, Subarno Paul, Mitchell Gulkis, Zhihang Shen, Haritha Nair, Amandeep Singh, Chenglong Li, Arun K. Sharma, Melike Çağlayan, Chinmay Das, Biswajit Das, Chanakya N. Kundu,* Satya Narayan* and Sankar K. Guchhait*



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Design, synthesis and preliminary biological evaluation of rivastigmine-INDY hybrids as multitarget ligands against Alzheimer's disease by targeting butyrylcholinesterase and DYRK1A/CLK1 kinases

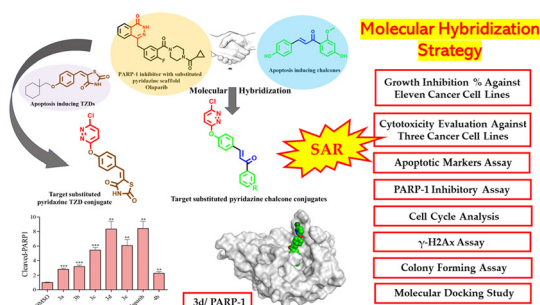
Mihaela-Liliana Țîntăș, Ludovic Peauger, Anaïs Barré, Cyril Papamicaël,* Thierry Besson, Jana Sopková-de Oliveira Santos, Vincent Gembus* and Vincent Levacher*



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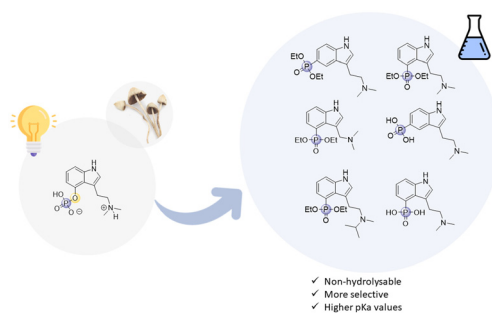
Design and synthesis of novel chloropyridazine hybrids as promising anticancer agents acting by apoptosis induction and PARP-1 inhibition through a molecular hybridization strategy

Norhan A. Abdelrahman, Ahmed A. Al-Karmalawy,* Maiy Y. Jaballah, Galal Yahya, Marwa Sharaky and Khaled A. M. Abouzid*



RESEARCH ARTICLES

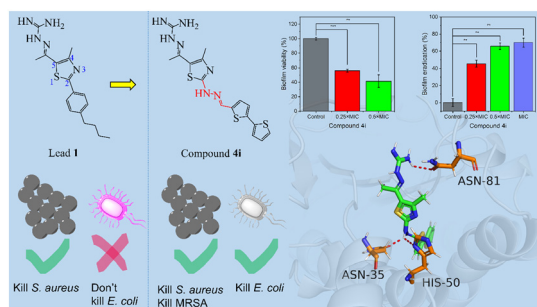
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Synthesis and bioactivity of psilocybin analogues containing a stable carbon–phosphorus bond

Marthe Vandeveld, Andreas Simoens, Bavo Vandekerckhove and Christian Stevens*

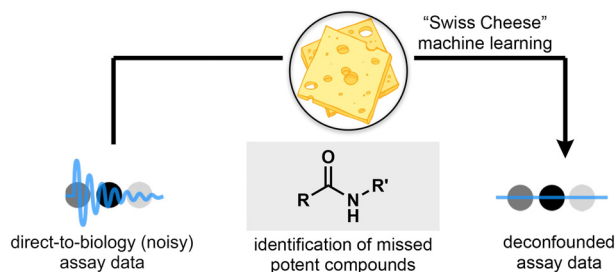
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Synthesis and structure–activity relationship of novel thiazole aminoguanidines against MRSA and *Escherichia coli*

Ping Yang, Hui-Zhong Liu, Ying-Si Wang, Hong Qi, Ling-Ling Wang, Bei-Bei Wang and Xiao-Bao Xie*

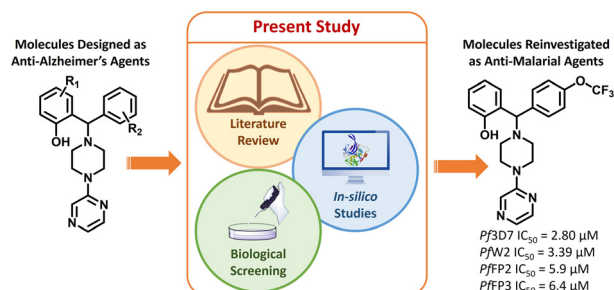
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Deconvoluting low yield from weak potency in direct-to-biology workflows with machine learning

William McCorkindale, Mihajlo Filep, Nir London, Alpha A. Lee and Emma King-Smith*

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Reinvestigation of diphenylmethylpiperazine analogues of pyrazine as new class of *Plasmodial* cysteine protease inhibitors for the treatment of malaria

Hari Madhav, G. Srinivas Reddy, Zeba Rizvi, Ehtesham Jameel, Tarosh S. Patel, Abdur Rahman, Vikas Yadav, Sadaf Fatima, Fatima Heyat, Kavita Pal, Amisha Minju-OP, Naidu Subbarao, Souvik Bhattacharjee, Bharat C. Dixit, Puran Singh Sijwali* and Nasimul Hoda*

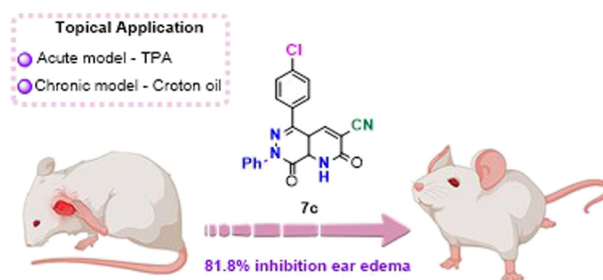


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Discovery of a new pyrido[2,3-*d*]pyridazine-2,8-dione derivative as a potential anti-inflammatory agent through COX-1/COX-2 dual inhibition

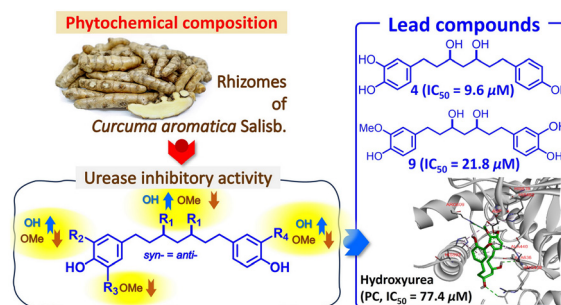
Fernanda A. Rosa,* Davana S. Gonçalves, Karlos E. Pianoski, Michael J. V. da Silva, Franciele Q. Ames, Rafael P. Aguiar, Hélio Volpato, Danielle Lazarin-Bidóia, Celso V. Nakamura and Ciomar A. Bersani-Amado



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In vitro biological evaluation and *in silico* studies of linear diarylheptanoids from *Curcuma aromatica* Salisb. as urease inhibitors

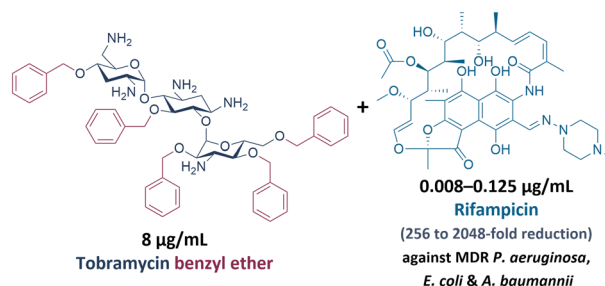
Tho Huu Le, Dung Ngoc Phuong Ho, Hai Xuan Nguyen, Truong Nhat Van Do, Mai Thanh Thi Nguyen, Lam K. Huynh and Nhan Trung Nguyen*



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Application of tobramycin benzyl ether as an antibiotic adjuvant capable of sensitizing multidrug-resistant Gram-negative bacteria to rifampicin

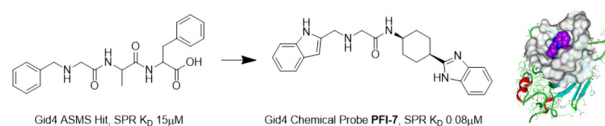
Danzel Marie Ramirez, Shiv Dhiman, Ayan Mukherjee, Ruwani Wimalasekara and Frank Schweizer*



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Chemical tools for the Gid4 subunit of the human E3 ligase C-terminal to LisH (CTLH) degradation complex

A. K. Yazdi, S. Perveen, C. Dong, X. Song, A. Dong, M. M. Szewczyk, M. F. Calabrese, A. Casimiro-Garcia, S. Chakrapani, M. S. Dowling, E. Ficici, J. Lee, J. I. Montgomery, T. N. O'Connell, G. J. Skrzypek, T. P. Tran, M. D. Troutman, F. Wang, J. A. Young, J. Min, D. Barsyte-Lovejoy, P. J. Brown, V. Santhakumar, C. H. Arrowsmith, M. Vedadi and D. R. Owen*



CORRECTION

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Correction: Minimising the payload solvent exposed hydrophobic surface area optimises the antibody–drug conjugate properties

Adrian D. Hobson,* Haizhong Zhu, Wei Qiu, Russell A. Judge and Kenton Longenecker

