

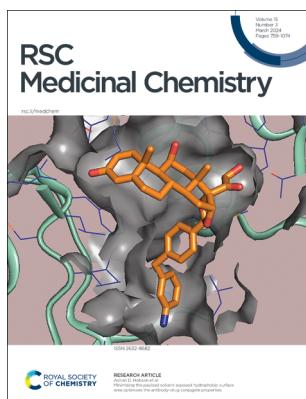
# RSC Medicinal Chemistry

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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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Med. Chem.*, 2024, 15, 832.

## REVIEWS

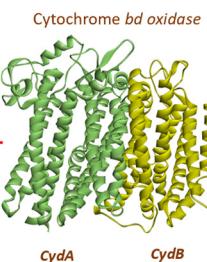
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### Cytochrome *bd* oxidase: an emerging anti-tubercular drug target

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

#### Cytochrome *bd* oxidase inhibitors

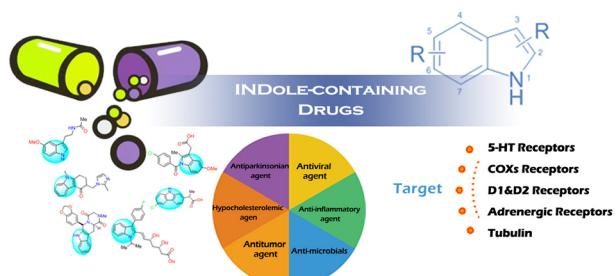
- Aurachin D and its analogues
- Quinazoline-4-amine and its analogue
- Thieno[3,2-*d*] pyrimidin-4-amines
- Amiloride analogue
- 2-(Quinolin-4-yloxy)acetamides and (4-oxoquinazoline-3(4H)-yl)acetamide
- 2-Aryl-quinolone
- 1-Hydroxy-2-methylquinolin-4(1*H*)-ones



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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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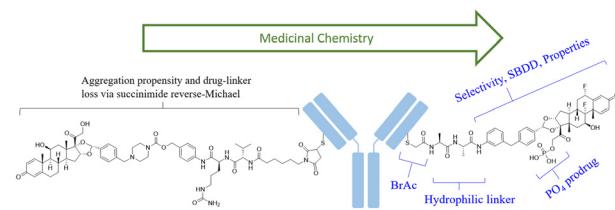


## REVIEWS

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**The medicinal chemistry evolution of antibody-drug conjugates**

Adrian D. Hobson\*

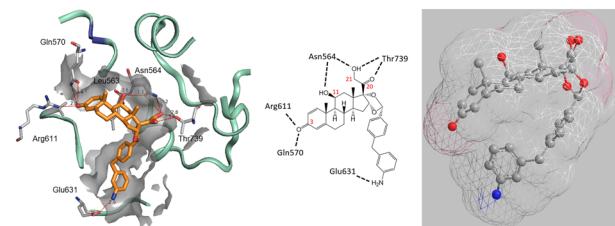


## RESEARCH ARTICLES

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

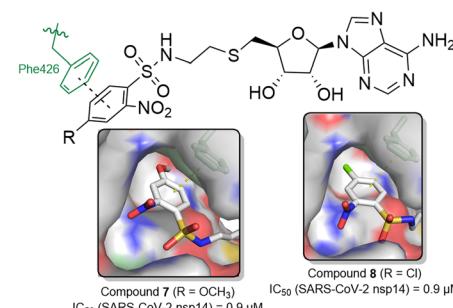
Adrian D. Hobson,\* Haizhong Zhu, Wei Qiu, Russell A. Judge and Kenton Longenecker



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

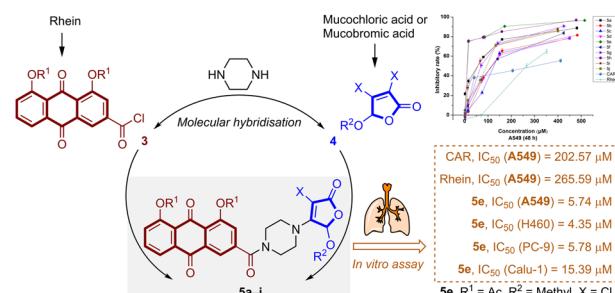
Rostom Ahmed-Belkacem, Joris Troussier, Adrien Delpal, Bruno Canard, Jean-Jacques Vasseur, Etienne Decroly\* and Françoise Debart\*



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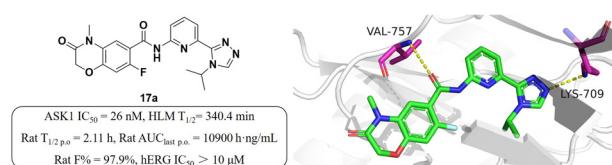
**Design, synthesis and biological evaluation of rhein-piperazine-furanone hybrids as potential anticancer agents**

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



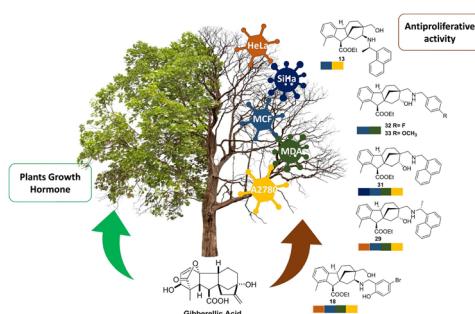
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**Discovery of benzoheterocyclic-substituted amide derivatives as apoptosis signal-regulating kinase 1 (ASK1) inhibitors**

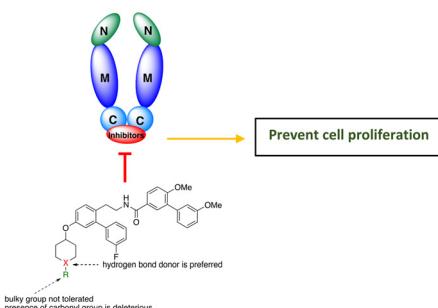
Lin Tang, Minxiong Li, Changlin Bai, Xuejin Feng, Haiyang Hu, Yufen Yao, Baiqing Li, Hongwei Li, Guohong Qin, Ning Xi,\* Genpin Lv\* and Lei Zhang\*

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

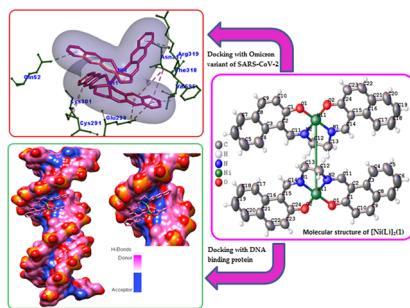
Zein Alabdeen Khdar, Tam Minh Le, Zsuzsanna Schelz, István Zupkó and Zsolt Szakonyi\*

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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**

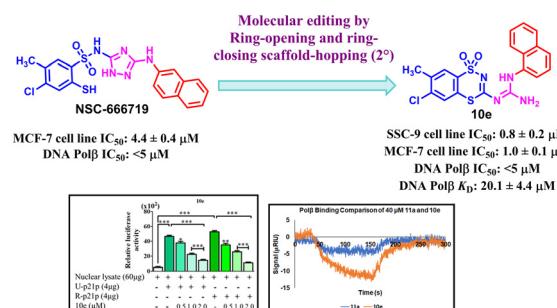
Anjie S. Bispat, Fernanda C. Cardoso, Md. Mahadhi Hasan, Yashad Dongol, Ricki Wilcox, Richard J. Lewis, Peter J. Duggan\* and Kellie L. Tuck\*



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

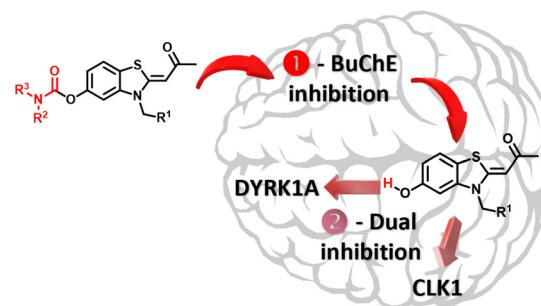
Vajja Krishna Rao, Subarno Paul, Mitchell Gulkis, Zhihang Shen, Haritha Nair, Amandeep Singh, Chenglong Li, Arun K. Sharma, Melike Çağlayan, Chinmay Das, Biswajit Das, Chanakya N. Kundu,\* Satya Narayan\* and Sankar K. Guchhait\*



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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**

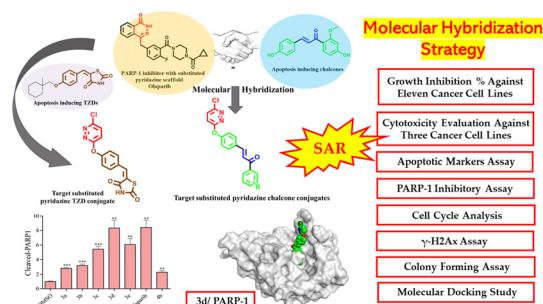
Mihaela-Liliana Tîntăş, Ludovic Peauger, Anaïs Barré, Cyril Papamicaël,\* Thierry Besson, Jana Sopková-de Oliveira Santos, Vincent Gembus\* and Vincent Levacher\*



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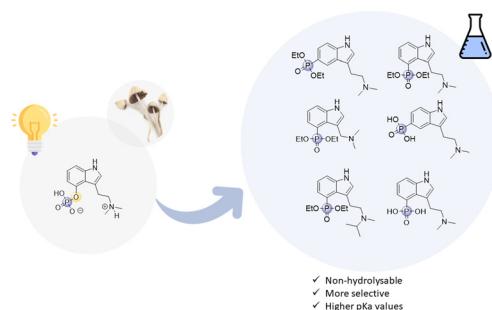
**Design and synthesis of novel chloropyridazine hybrids as promising anticancer agents acting by apoptosis induction and PARP-1 inhibition through a molecular hybridization strategy**

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



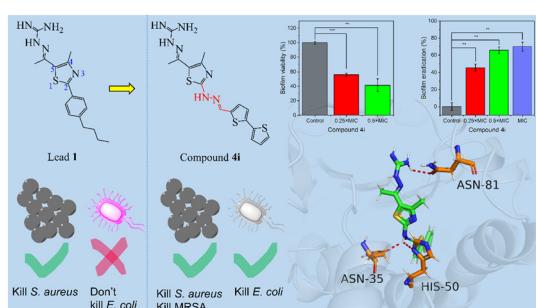
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**Synthesis and bioactivity of psilocybin analogues containing a stable carbon–phosphorus bond**

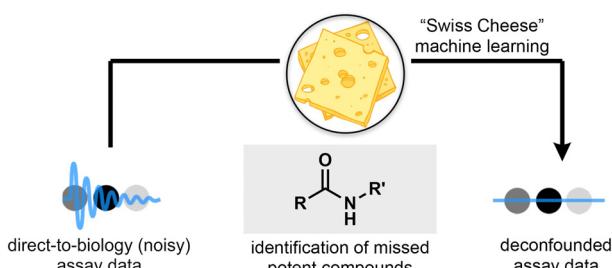
Marthe Vandevelde, Andreas Simoens, Bavo Vandekerckhove and Christian Stevens\*

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

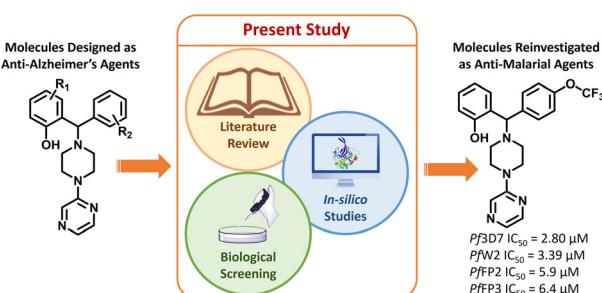
Ping Yang, Hui-Zhong Liu, Ying-Si Wang, Hong Qi, Ling-Ling Wang, Bei-Bei Wang and Xiao-Bao Xie\*

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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\*

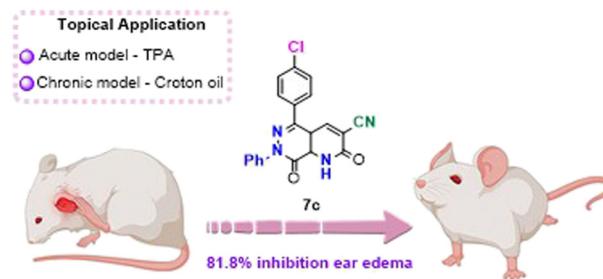


## RESEARCH ARTICLES

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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**

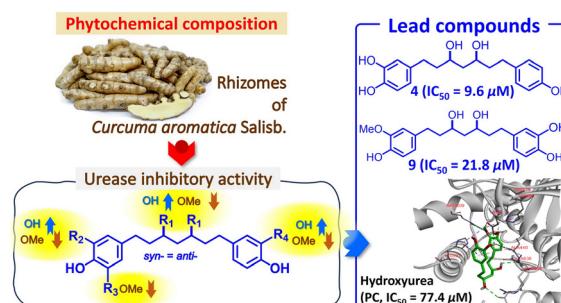
Fernanda A. Rosa,\* Davana S. Gonçalves, Karlos E. Pianoski, Michael J. V. da Silva, Franciele Q. Ames, Rafael P. Aguiar, Hélio Volpato, Danielle Lazarin-Bidóia, Celso V. Nakamura and Ciomar A. Bersani-Amado



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

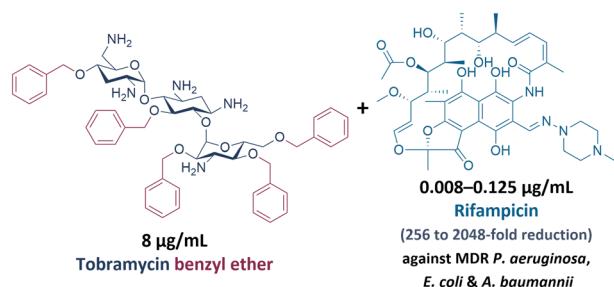
Tho Huu Le, Dung Ngoc Phuong Ho, Hai Xuan Nguyen, Truong Nhat Van Do, Mai Thanh Thi Nguyen, Lam K. Huynh and Nhan Trung Nguyen\*



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

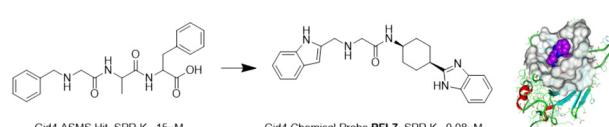
Danzel Marie Ramirez, Shiv Dhiman, Ayan Mukherjee, Ruwani Wimalasekara and Frank Schweizer\*



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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. Skrypek, 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

**1072****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

