

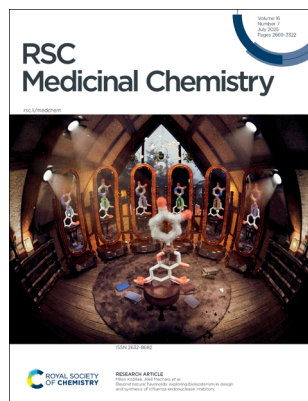
RSC Medicinal Chemistry

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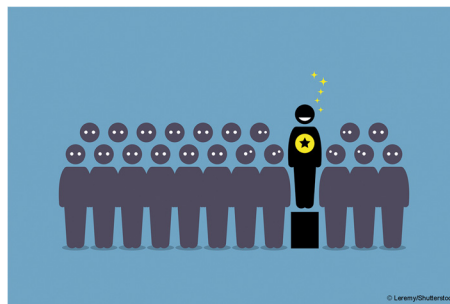
Cover

See Milan Kožíšek,
Aleš Machara *et al.*,
pp. 3030–3048.
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EDITORIAL

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Outstanding Reviewers for *RSC Medicinal Chemistry* in 2024

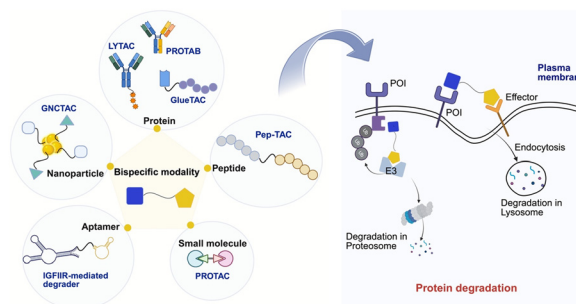


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Proximity-induced membrane protein degradation for cancer therapies

Dingpeng Zhang, Zhen Wang, Hiroyuki Inuzuka and Wenyi Wei*



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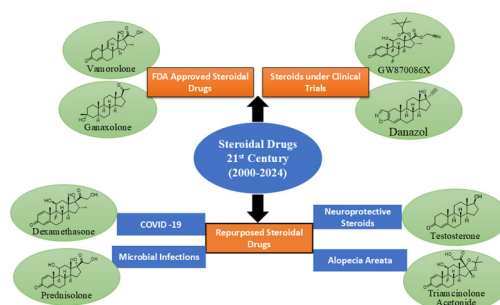


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Revisiting the role of steroidal therapeutics in the 21st century: an update on FDA approved steroidal drugs (2000–2024)

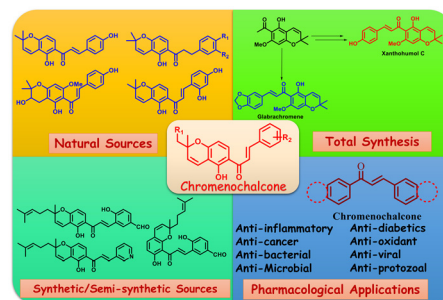
Ranjit Singh and Ranju Bansal*



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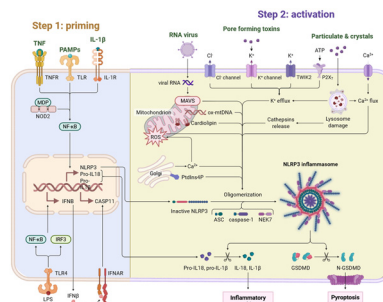
Rohit Singh,* Archita Katrolia and Ved Pal



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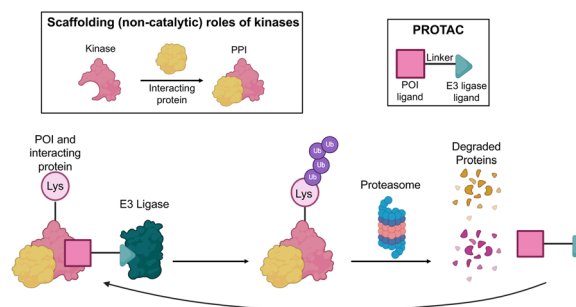
Desh Deepak Singh



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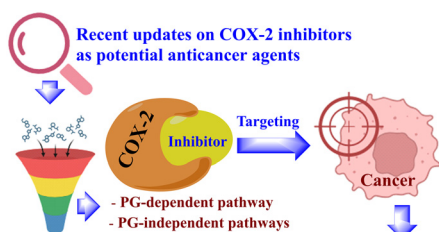
Razing the scaffolding: the elimination of non-catalytic functions of kinases through targeted protein degradation

Sarah Pogash and Steven Fletcher*



REVIEWS

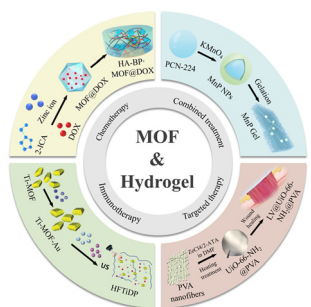
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Recent advances in targeting COX-2 for cancer therapy: a review

Asmaa E. Kassab

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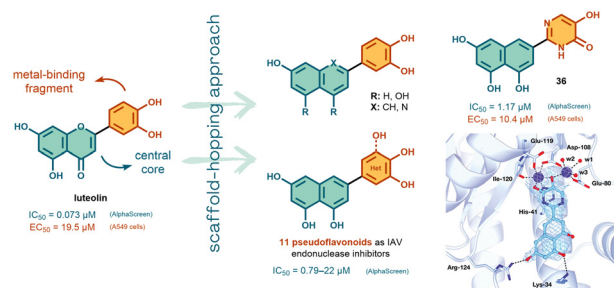


Research prospects and AI-driven strategies for metal-organic framework-hydrogel composite materials in cancer treatment

Zijun Zhang, Yuelin Zhang, Taiwei Liang, Jiajia Zhang, Weidong Liu,* Ying Pan,* Jianqiang Liu and Xiaoxiu Li*

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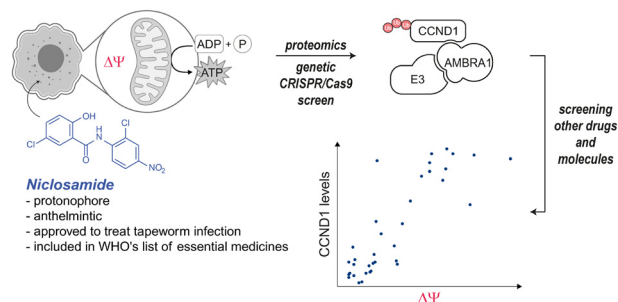
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Beyond natural flavonoids: exploring bioisosterism in design and synthesis of influenza endonuclease inhibitors

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Niclosamide: CRL4^{AMBRA1} mediated degradation of cyclin D1 following mitochondrial membrane depolarization

Seemon Coomar, Jessica A. Gasser, Mikołaj Stabicki, Katherine A. Donovan, Eric S. Fischer, Benjamin L. Ebert, Dennis Gillingham and Nicolas H. Thomä*

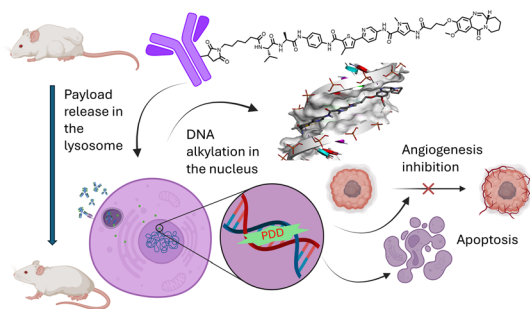


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A novel DNA sequence-selective, guanine mono-alkylating ADC payload suitable for solid tumour treatment

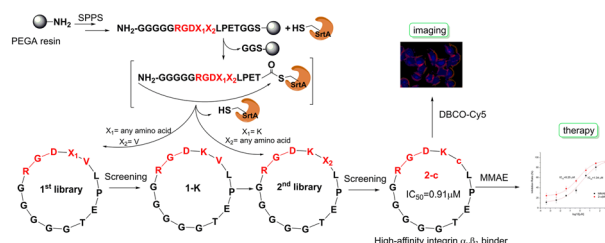
Paolo Andriollo, Daniella di Mascio, Paul J. M. Jackson, Md. Mahbub Hasan, Ilona Pysz-Hosey, George Procopiou, Keith R. Fox, Khondaker Miraz Rahman* and David E. Thurston



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Macrocyclic RGD-peptides with high selectivity for $\alpha_v\beta_3$ integrin in cancer imaging and therapy

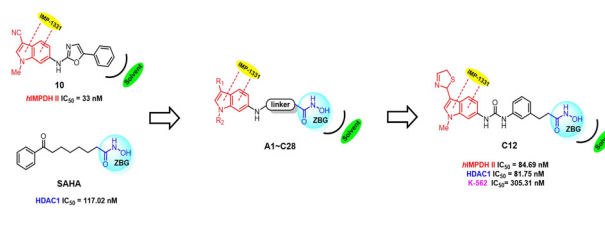
Xiaozhong Cheng, Chen Li, Haofei Hong, Zhifang Zhou and Zhimeng Wu*



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Design, synthesis and antitumor activity evaluation of novel IMPDH II and HDAC1 dual inhibitor

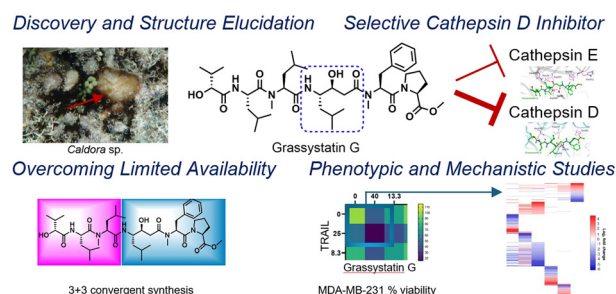
Fang-Bo Deng, Hong-Wei Jia, De-Xiang Hu, Zhen-Li Li, Xiao-Meng Xiu, Xue-Qi Zhao, Yang Liu,* Hua-Li Yang* and Maosheng Cheng*



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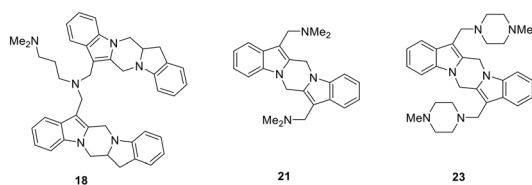
Grassystatin G, a new cathepsin D inhibitor from marine cyanobacteria: discovery, synthesis, and biological characterization

Lobna A. Elsadek, Gustavo Seabra, Valerie J. Paul and Hendrik Luesch*



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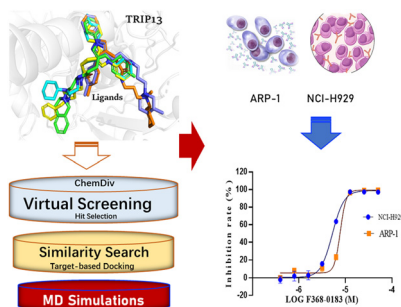


Cpd	IC ₅₀ [μM]			Cytotoxicity J774.1
	3D7	Dd2		
18	0.44	1.02		13.1
21	0.49	1.55		43.7
23	0.36	0.80		7.1

Synthesis and antiplasmodial activity of 6*H*,13*H*-pyrazino[1,2-*a*;4,5-*a'*]diindole analogues substituted with basic side chains

Darius P. Zlotos,* Siegrid Franke, Che J. Ngwa, Timo Reiss, Joshua Weinmann, Gabriele Pradel, Jude M. Przyborski and Ulrike Holzgrabe

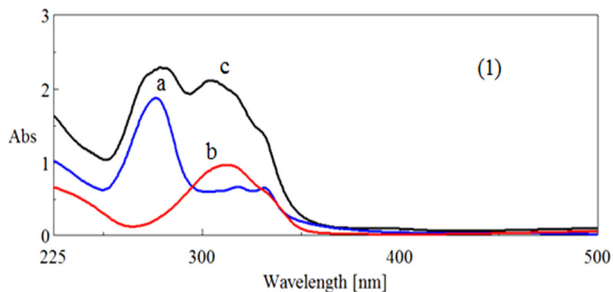
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Discovery of novel antimyeloma agents targeting TRIP13 by molecular modeling and bioassay

Samuel Jacob Bunu, Haiyan Cai,* Zhaoyin Zhou, Yanlei Zhang, Yue Lai, Guanli Wang, Dongliang Song, Chengkun Wu, Hang Zheng, Zhijian Xu,* Jumei Shi* and Weiliang Zhu*

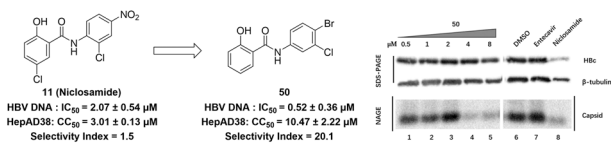
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Synthesis, characterization, and toxicity evaluation of ciprofloxacin-chloranilic acid charge transfer complexes: potential for anticancer applications

Mahmoud M. Ali, Muhammad Alaa Eldeen, Mohamed E. El Awady, Ahmed A. Hamed, Heba A. H. Abd Elhameed, Amira Awadalla, Mohamed Alshehri, Hassan M. Otfi, Dalal Sulaiman Alshaya, Eman Fayad, Dalal Nasser Binjawhar and Mohamed Ali*

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Salicylamide derivatives as potent HBV inhibitors: insights into structure-activity relationships

Jingwen Huo, Jizhen Xiao, Yushi Zhang, Xinhui Qiu, Xuechen Huang, Ge Wang, Jianhao Wang, Kuancheng Liu* and Jimin Xu*

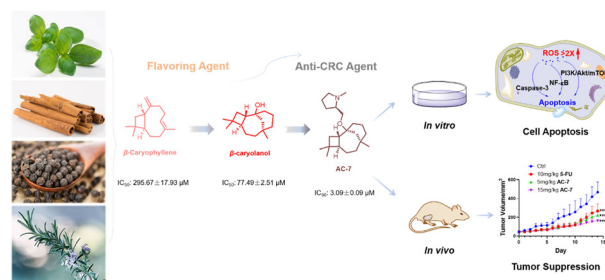


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Design, synthesis and biological evaluation of novel β -caryophyllene derivatives as potential anti-cancer agents through the ROS-mediated apoptosis pathway

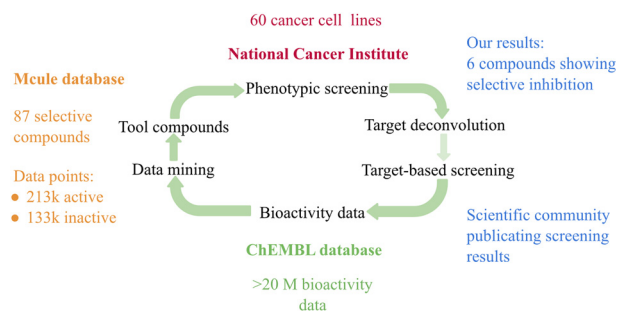
Zhiwei Wang, Yang Chen, Anjie Huang, Hui Wen, Yetian Wu, Xingjun Xu, Zhongjing Qiao, Liangyu Chen, Yaopeng Zhao* and Xinmiao Liang*



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A data-driven journey using results from target-based drug discovery for target deconvolution in phenotypic screening

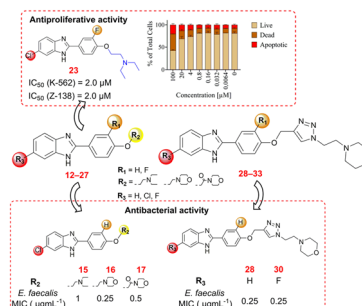
Gergely Takács, György T. Balogh* and Róbert Kiss*



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Biological assessments of novel ultrasound-synthesized 2-arylbenzimidazole derivatives: antiproliferative and antibacterial effects

Ivana Sokol, Anja Rakas, Dajana Kučić Grgić, Leentje Persoons, Dirk Daelemans and Tatjana Gazivoda Kraljević*



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Organoselenium compounds as an enriched source for the discovery of new antimicrobial agents

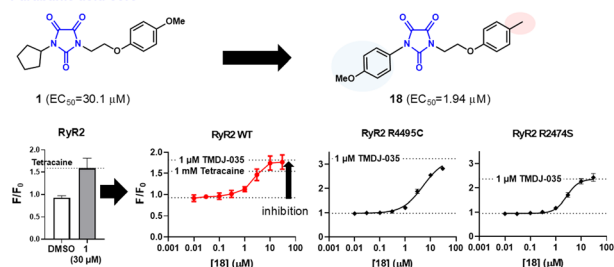
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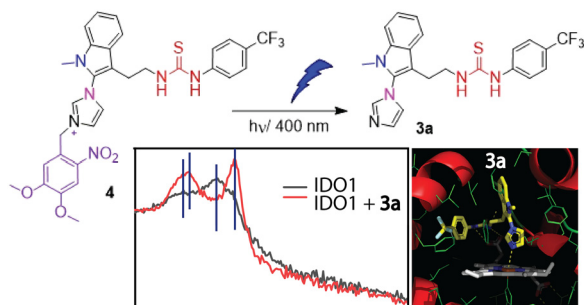
Parabanic acid core



Development of selective RyR2 inhibitors with a pharmacophore containing a parabanic acid skeleton

Ryosuke Ishida, Xi Zeng, Nagomi Kurebayashi, Takashi Murayama, Shuichi Mori, Yuga Yamamoto and Hiroyuki Kagechika*

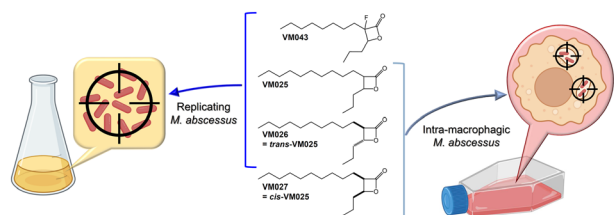
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Photoresponsive prodrug for regulated inhibition of indoleamine 2,3-dioxygenase 1 enzyme activity

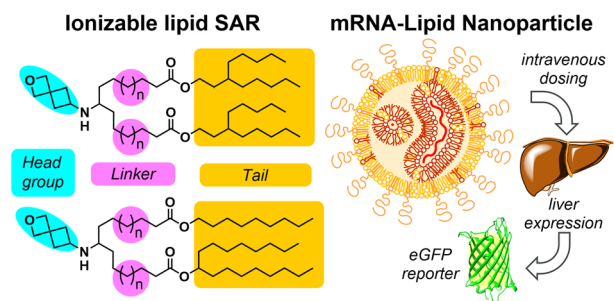
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Synthesis and anti-mycobacterial activity of novel medium-chain β-lactone derivatives: a multi-target strategy to combat *Mycobacterium abscessus*

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New ionizable lipids for non-viral mRNA delivery with secondary amine cyclic ether head groups

Eric L. Dane,* Aditya R. Pote, Martin Hemmerling, Werngard Czechtizky, Liping Zhou and Annette Bak

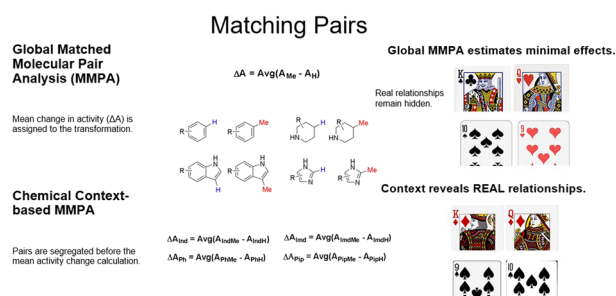


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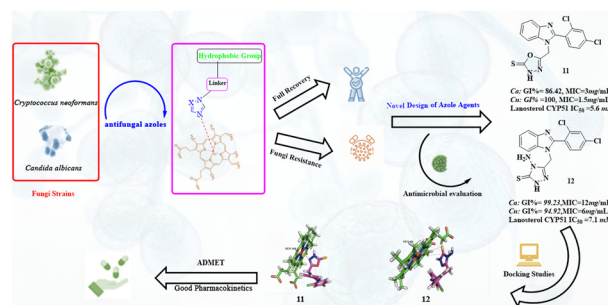
A context-based matched molecular pair analysis identifies structural transformations that reduce CYP1A2 inhibition

Janvi A. Raut and Vaibhav A. Dixit*



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Novel benzimidazole hybrids: design, synthesis, mechanistic studies, antifungal potential and molecular dynamics

Ahmed A. Ibrahim, Eman G. Said, Asmaa M. AboulMagd,*
Noha H. Amin and Hamdy M. Abdel-Rahman*

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Design, synthesis and biological studies of carbazole–thiosemicarbazone hybrids as potential topoisomerase II catalytic inhibitors

PengHui Li,* LiJun Xie, ShiYan Feng, XuDong Xiang,
ChunXia Chen and LiangXiong Xu