

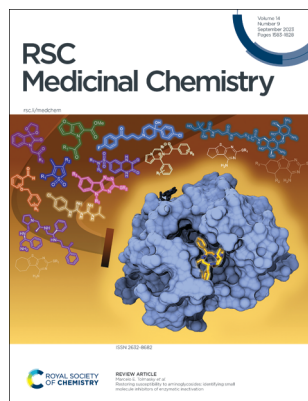
# RSC Medicinal Chemistry

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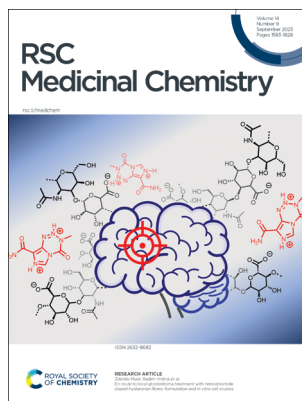
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ISSN 2632-8682 CODEN RMCSCX 14(9) 1583-1828 (2023)



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See Marcelo E. Tolmasky *et al.*, pp. 1591-1602.  
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### Inside cover

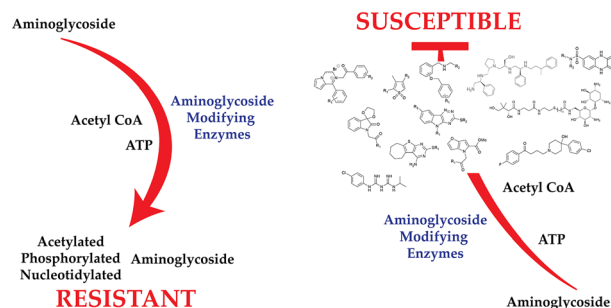
See Zdeněk Musil, Radim Hrdina *et al.*, pp. 1662-1666.  
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## REVIEWS

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### Restoring susceptibility to aminoglycosides: identifying small molecule inhibitors of enzymatic inactivation

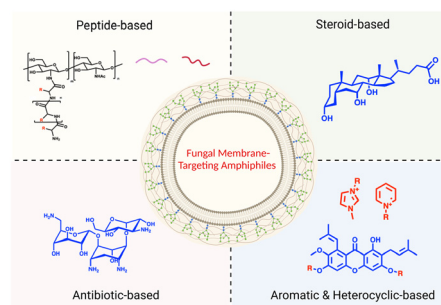
Angel J. Magaña, Jan Sklenicka, Clemencia Pinilla, Marc Giulianotti, Prem Chapagain, Radleigh Santos, Maria Soledad Ramirez and Marcelo E. Tolmasky\*



1603

### Recent developments in membrane targeting antifungal agents to mitigate antifungal resistance

Devashish Mehta, Varsha Saini and Avinash Bajaj\*



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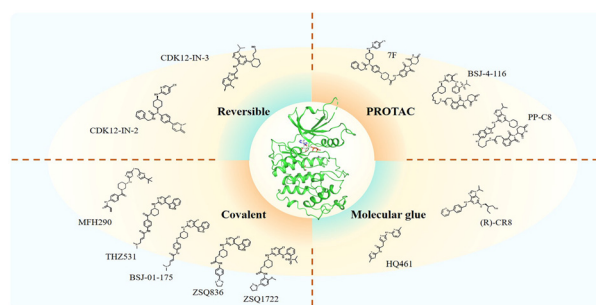


## REVIEWS

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## Research progress of anticancer drugs targeting CDK12

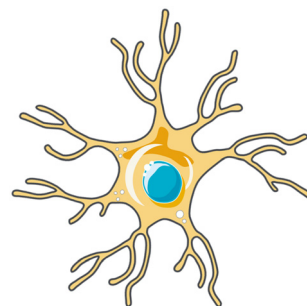
Zhijia Yan, Yongli Du,\* Haibin Zhang, Yong Zheng, Huiting Lv, Ning Dong and Fang He



1645

## Druggable targets for the immunopathy of Alzheimer's disease

Donald F. Weaver\*

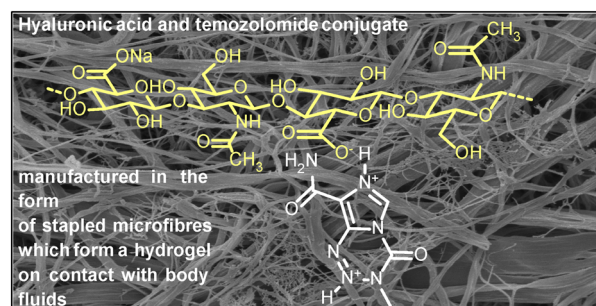


## RESEARCH ARTICLES

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En route to local glioblastoma treatment with temozolomide doped hyaluronan fibres: formulation and *in vitro* cell studies

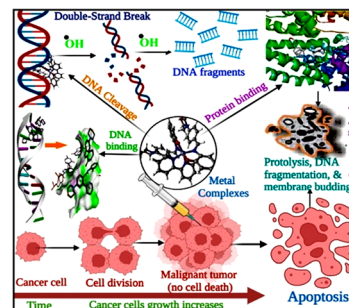
Marie Belhajová, Aleš Vicha, Ladislav Burgert, Iveta Brožková, Ludmila Michalíčková, Radim Hrdina, Tomáš Moravec, David Netuka, Zdeněk Musil\* and Radim Hrdina\*



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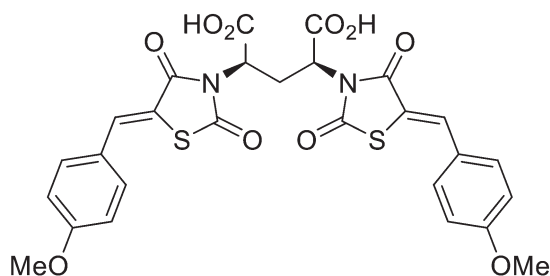
Exploring the antioxidant, antimicrobial, cytotoxic and biothermodynamic properties of novel morpholine derivative bioactive Mn(II), Co(II) and Ni(II) complexes – combined experimental and theoretical measurements towards DNA/BSA/SARS-CoV-2 3CL<sup>Pro</sup>

Karunganathan Sakthikumar, Bienfait Kabuyaya Isamura and Rui Werner Maçedo Krause\*



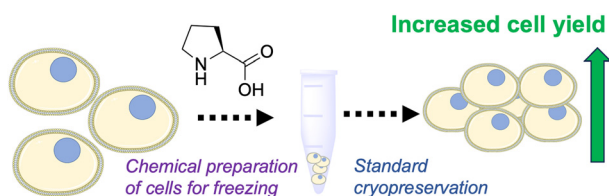
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**Compound 5b****Enhancing allosteric inhibition of dihydrodipicolinate synthase through the design and synthesis of novel dimeric compounds**

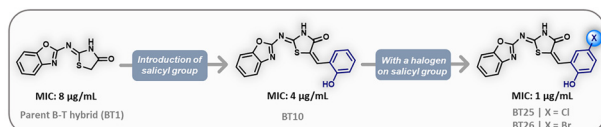
Rebecca M. Christoff, Mohammad Al Bayer, Tatiana P. Soares da Costa, Matthew A. Perugini and Belinda M. Abbott\*

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**Proline pre-conditioning of Jurkat cells improves recovery after cryopreservation**

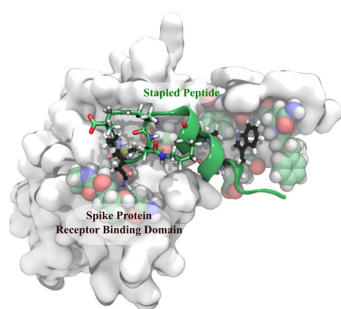
Alex Murray, Peter Kilbride and Matthew I. Gibson\*

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**Discovery of benzoxazole-thiazolidinone hybrids as promising antibacterial agents against *Staphylococcus aureus* and *Enterococcus* species**

Vijay Sai Krishna Cheerla, Abdul Akhir, Deepanshi Saxena, Rahul Maitra, Sidharth Chopra\* and Sundaresan Chittor Neelakantan\*

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**De novo design of a stapled peptide targeting SARS-CoV-2 spike protein receptor-binding domain**

Ravindra Thakkar,\* Dilip K. Agarwal, Chathuranga B. Ranaweera, Susumu Ishiguro, Martin Conda-Sheridan, Natasha N. Gaudreault, Juergen A. Richt, Masaaki Tamura and Jeffrey Comer

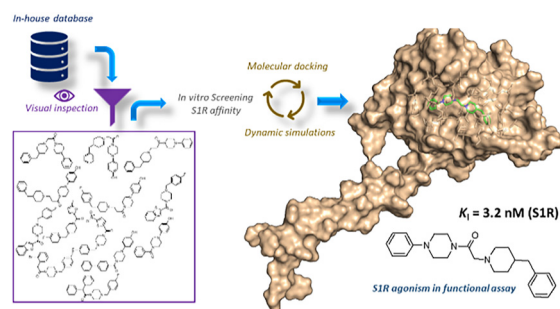


## RESEARCH ARTICLES

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## Discovery and computational studies of piperidine/piperazine-based compounds endowed with sigma receptor affinity

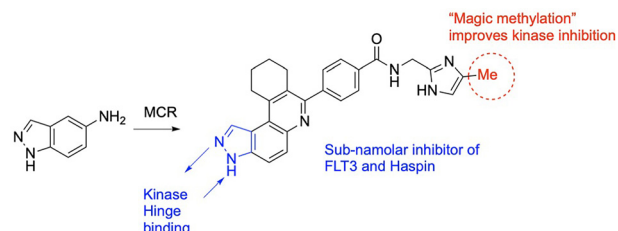
Laura De Luca, Lisa Lombardo, Salvatore Mirabile, Agostino Marrazzo, Maria Dichiara, Giuseppe Cosentino, Emanuele Amata and Rosaria Gitto\*



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## Dual FLT3/haspin kinase inhibitor based on 3H-pyrazolo[4,3-f]quinoline scaffold with activities against acute myeloid leukemia

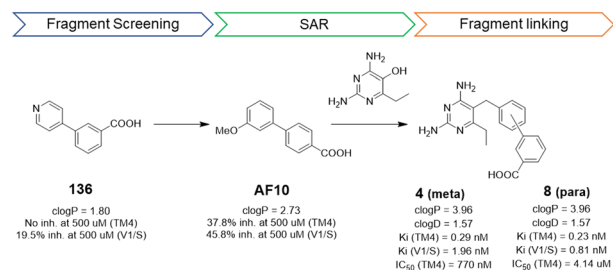
Allison L. Kempen, Nickolas R. Brauer and Herman O. Sintim\*



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Discovery of rigid biphenyl *Plasmodium falciparum* DHFR inhibitors using a fragment linking strategy

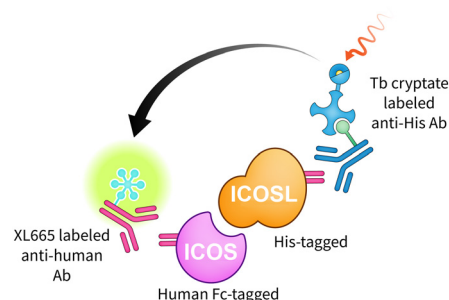
Marie Hoarau,\* Patpanat Sermmmai, Thaveechai Varatthan, Ratthiya Thiabma, Tararat Jantra, Roonglawan Rattanajak, Danoo Vitsupakorn, Jarunee Vanichtanankul, Siriporn Saepua, Yongyuth Yuthavong, Chawanee Thongpanchang and Sumalee Kamchonwongpaisan



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## First-in-class small molecule inhibitors of ICOS/ICOSL interaction as a novel class of immunomodulators

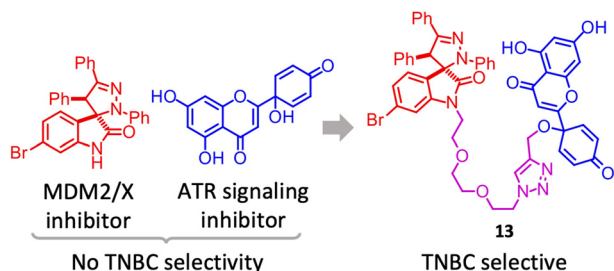
Somaya A. Abdel-Rahman, Katarzyna Świderek and Moustafa T. Gabr\*





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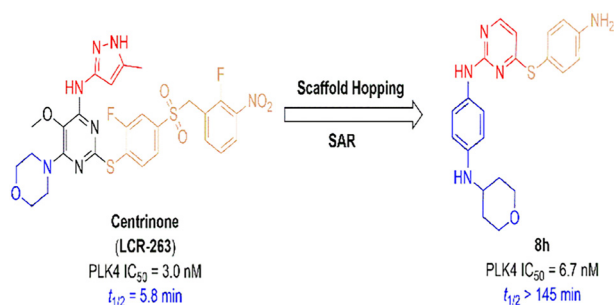
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### Hybrid molecules of protoflavones and spirooxindole derivatives with selective cytotoxicity against triple-negative breast cancer cells

Gábor Girst, Elizabeth A. Lopes, Lídia M. Gonçalves, Margarida Espadinha, Norbert Kúsz, Hui-Chun Wang, Maria M. M. Santos\* and Attila Hunyadi\*

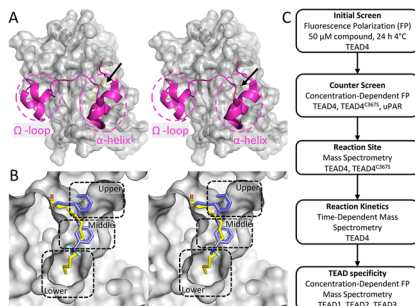
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### Design, synthesis, and biological evaluation of novel pyrimidin-2-amine derivatives as potent PLK4 inhibitors

Yanli Xue, Shuyi Mu, Pengkun Sun, Yin Sun, Nian Liu, Yu Sun, Lin Wang, Dongmei Zhao\* and Maosheng Cheng

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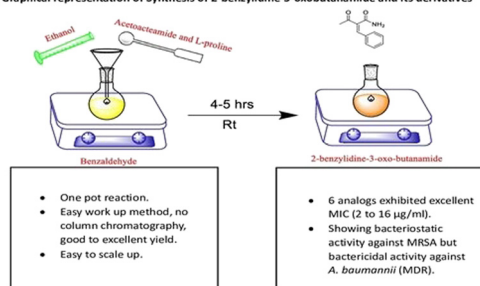


### Chloroacetamide fragment library screening identifies new scaffolds for covalent inhibition of the TEAD-YAP1 interaction

Khuchtumur Bum-Erdene, Mona K. Ghosayel, Mark J. Zhang, Giovanni Gonzalez-Gutierrez and Samy O. Meroueh\*

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Graphical representation of Synthesis of 2-benzylidene-3-oxobutanamide and its derivatives



### Synthesis and antibacterial activity of 2-benzylidene-3-oxobutanamide derivatives against resistant pathogens

Ankur Sood and Venkitasamy Kesavan\*

