



European Journal of Medicinal Chemistry Vol 122, 2016

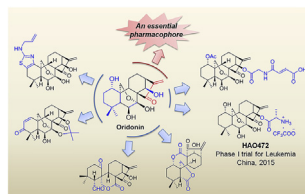
Graphical abstracts

REVIEW ARTICLE

Discovery and development of natural product oridonin-inspired anticancer agents

pp. 102–117

Ye Ding, Chunyong Ding, Na Ye, Zhiqing Liu, Eric A. Wold, Haiying Chen, Christopher Wild, Qiang Shen and Jia Zhou*

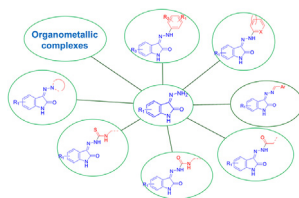


MINI-REVIEW

3-Hydrazinoindolin-2-one derivatives: Chemical classification and investigation of their targets as anticancer agents

pp. 366–381

Hany S. Ibrahim*, Sahar M. Abou-Seri and Hatem A. Abdel-Aziz



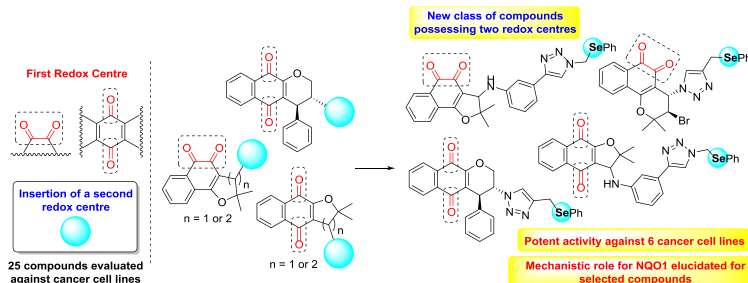
3-Hydrazinoindolin-2-one is the scaffold of choice for nine classes of compounds with significant antitumor activity. The mechanisms of anticancer activity, beside the crystallographic data of different targets or docking studies were highlighted when available.

ORIGINAL ARTICLES

Synthesis and antitumor activity of selenium-containing quinone-based triazoles possessing two redox centres, and their mechanistic insights

pp. 1–16

Eduardo H.G. da Cruz, Molly A. Silvers, Guilherme A.M. Jardim, Jarbas M. Resende, Bruno C. Cavalcanti, Igor S. Bomfim, Claudia Pessoa, Carlos A. de Simone, Giancarlo V. Botteselle, Antonio L. Braga, Divya K. Nair, Irishi N.N. Namboothiri, David A. Boothman and Eufrânio N. da Silva Júnior*

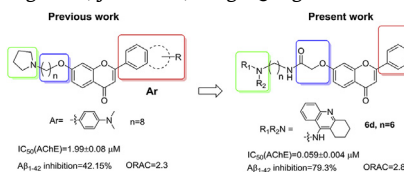


Selenium-containing quinones were designed and synthesized by click chemistry reaction and evaluated against several human cancer cell lines showing, in some cases, IC_{50} values below 0.3 μ M.

Design, synthesis and evaluation of 4-dimethylamine flavonoid derivatives as potential multifunctional anti-Alzheimer agents

pp. 17–26

Wen Luo, Ting Wang, Chen Hong, Ya–Chen Yang, Ying Chen, Juan Cen*, Song–Qiang Xie and Chao–Jie Wang**

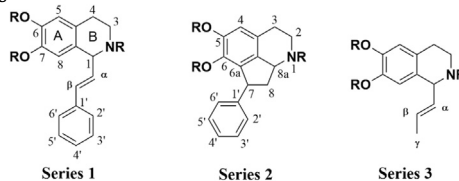


4-Dimethylamino flavonoid derivatives were synthesized as potential multi-functional anti-Alzheimer agents, they showed potent inhibition activity for cholinesterase, anti-oxidation and anti- $A\beta$ aggregation activities. Molecular modeling study and kinetic analysis showed that these compounds interacted at both catalytic active site and peripheral anionic site of AChE. Compound **6d** significantly protected PC12 neurons against H_2O_2 -induced cell death at low concentrations.

Dopaminergic isoquinolines with hexahydrocyclopenta[*tj*]-isoquinolines as D_2 -like selective ligands

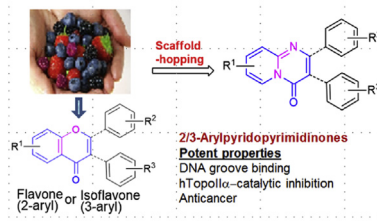
pp. 27–42

Javier Párraga, Sebastián A. Andujar, Sebastián Rojas, Lucas J. Gutierrez, Noureddine El Ouad, M. Jesús Sanz, Ricardo D. Enriz, Nuria Cabedo* and Diego Cortes**

**Scaffold-hopping of bioactive flavonoids: Discovery of aryl-pyridopyrimidinones as potent anticancer agents that inhibit catalytic role of topoisomerase II α**

pp. 43–54

Garima Priyadarshani, Suyog Amrutkar, Anmada Nayak, Uttam C. Banerjee, Chanakya N. Kundu and Sankar K. Guchhait*



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