

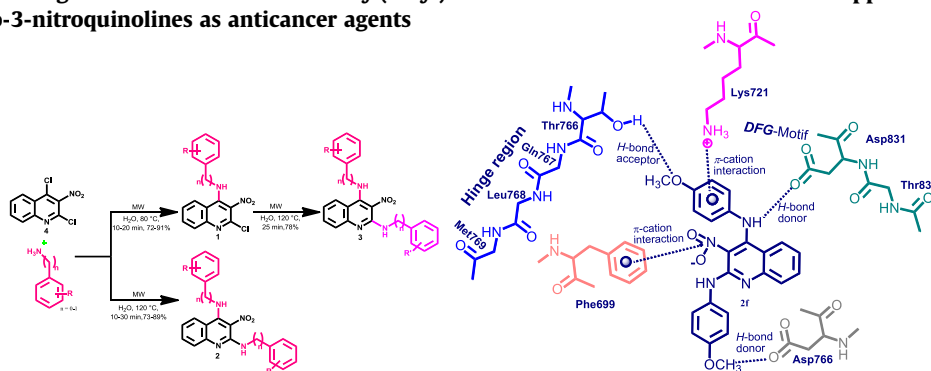


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Design, microwave-mediated synthesis and biological evaluation of novel 4-aryl(alkyl)amino-3-nitroquinoline and 2,4-diaryl(dialkyl)amino-3-nitroquinolines as anticancer agents

pp 1–10

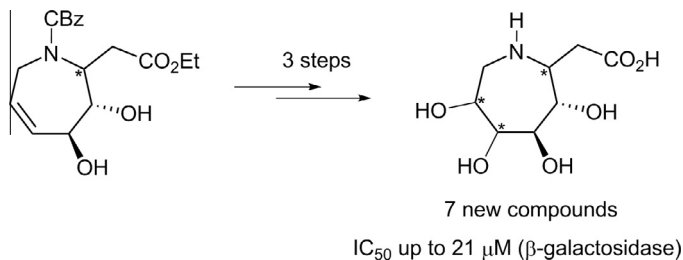
Monika Chauhan, Anil Rana, Jimi Marin Alex, Arvind Negi, Sandeep Singh and Raj Kumar*



Synthesis of 2-carboxymethyl polyhydroxyazepanes and their evaluation as glycosidase inhibitors

pp 11–17

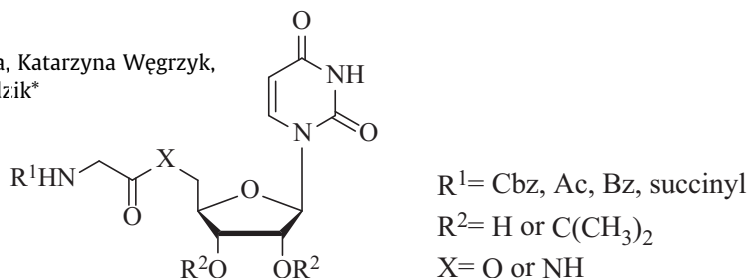
Hanaa Taghzouti, Sophie Goumain, Dominique Harakat, Charles Portella, Jean-Bernard Behr* and Richard Plantier-Royon*



Synthesis and biological evaluation of 5'-glycyl derivatives of uridine as inhibitors of 1,4-β-galactosyltransferase

pp 18–25

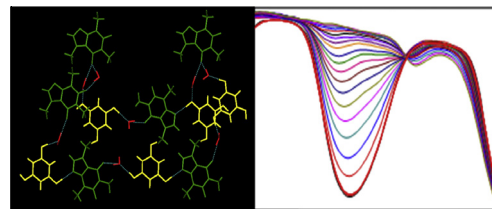
Jadwiga Paszkowska, Katarzyna Kral, Tadeusz Bieg, Karolina Żaba, Katarzyna Węgrzyk, Natalia Jaśkowiak, Antonio Molinaro, Alba Silipo and Ilona Wandzik*



Molecular recognition of caffeine in solution and solid state

pp 26–47

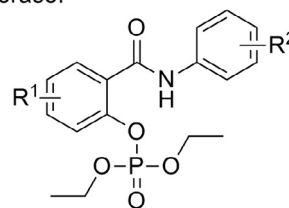
Prithidipa Sahoo

**Salicylanilide diethyl phosphates as cholinesterases inhibitors**

pp 48–52

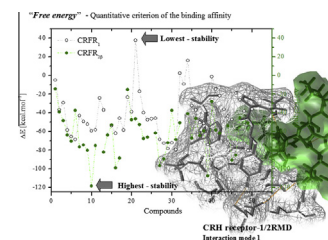
Martin Krátký, Šárka Štěpánková, Katarína Vorčáková and Jarmila Vinšová*

Salicylanilide diethyl phosphates inhibit acetylcholinesterase and butyrylcholinesterase.

IC₅₀ values for acetylcholinesterase from 35.4 μMIC₅₀ values for butyrylcholinesterase from 0.903 μM**Quinoxalines as potent selective CRFRs ligands for monitoring and brain diagnostic**

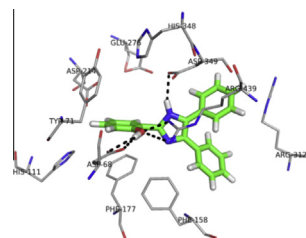
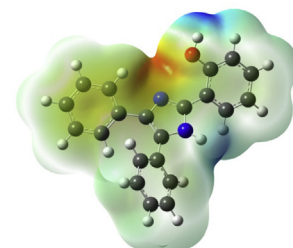
pp 53–64

Bojidarka Ivanova* and Michael Spiteller

**Organocatalyzed solvent free an efficient novel synthesis of 2,4,5-trisubstituted imidazoles for α-glucosidase inhibition to treat diabetes**

pp 65–71

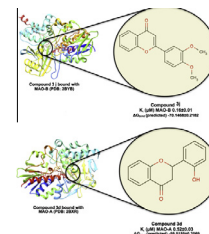
Muhammad Yar,* Marek Bajda, Sohail Shahzad, Nisar Ullah, Mazhar Amjad Gilani, Muhammad Ashraf, Abdul Rauf and Ayesha Shaukat

Binding mode of α-glucosidase inhibitor 3c
(IC₅₀ 74.32±0.59 μM)

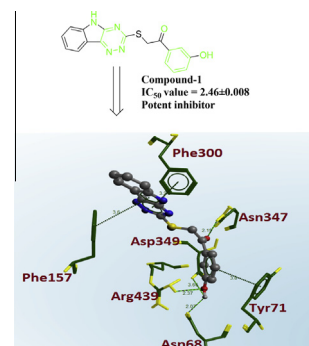
Molecular electrostatic potential map of 3c

Monoamine oxidase inhibitory activity of 2-aryl-4H-chromen-4-ones**pp 72–80**

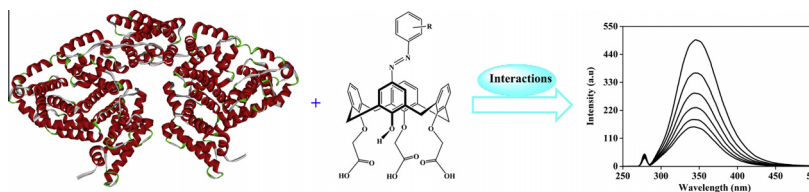
Vishnu Nayak Badavath, S. Ciftci-Yabanoglu, Soumendranath Bhakat, Ajay Kumar Timiri, Barij N. Sinha, G. Ucar, Mahmoud E.S. Soliman and Venkatesan Jayaprakash*

**Triazinoindole analogs as potent inhibitors of α -glucosidase: Synthesis, biological evaluation and molecular docking studies****pp 81–87**

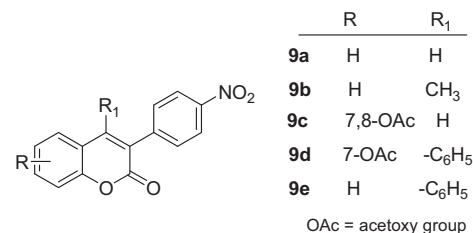
Fazal Rahim,* Khadim Ullah, Hayat Ullah, Abdul Wadood, Muhammad Taha, Ashfaq Ur Rehman, Imad uddin, Muhammad Ashraf, Ayesha Shaukat, Wajid Rehman, Shafqat Hussain and Khalid Mohammed Khan

**Spectroscopic investigation of the interaction of water-soluble azocalix[4]arenes with bovine serum albumin****pp 88–95**

Ping Fan,* Lu Wan, Yunshan Shang, Jun Wang, Yulong Liu, Xiaoyu Sun and Chen Chen

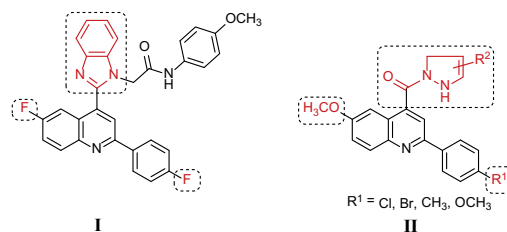
**Synthesis and *in vitro* evaluation of 3-(4-nitrophenyl)coumarin derivatives in tumor cell lines****pp 96–103**

Musiliyu A. Musa,* Lekan M. Latinwo, Clifford Virgile, Veera L.D. Badisa and Akintunde J. Gbadebo

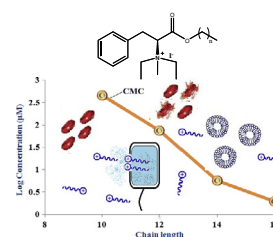


Synthesis, molecular docking and anti-inflammatory screening of novel quinoline incorporated pyrazole derivatives using the Pfitzinger reaction II**pp 104–116**

Said A.H. El-Feky,* Zakaria K. Abd El-Samii, Nermine A. Osman, Jasmine Lashine, Mohamed A. Kamel and Hamdy Kh. Thabet

**Synthesis, micellisation and interaction of novel quaternary ammonium compounds derived from L-Phenylalanine with 1,2-dipalmitoyl-*sn*-glycero-3-phosphocholine as model membrane in relation to their antibacterial activity, and their selectivity over human red blood cells****pp 117–129**

Nausheen Joondan, Prakashanand Caumul, Matthew Akerman and Sabina Jhaumeer-Laulloo*



*Corresponding author