



## European Journal of Medicinal Chemistry Vol 76, 2014

## Contents

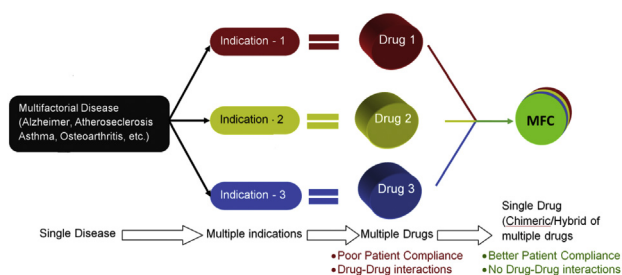
## MINI-REVIEWS

**Multifunctional compounds: Smart molecules for multifactorial diseases**

pp. 31–42

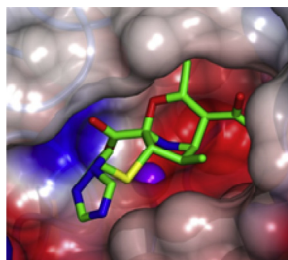
Yogita Bansal and Om Silakari\*

Multifunction compounds (MFCs), designed as hybrid/conjugated or chimeric drugs have emerged as magic bullets in treatment of multifactorial diseases such as atherosclerosis, Alzheimer's diseases, osteoarthritis, diabetic complications and malaria.

**The applications of binuclear metallohydrolases in medicine: Recent advances in the design and development of novel drug leads for purple acid phosphatases, metallo- $\beta$ -lactamases and arginases**

pp. 132–144

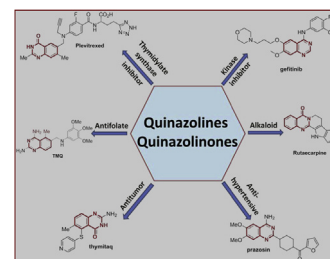
Ross P. McGeary\*, Gerhard Schenk and Luke W. Guddat\*

**Recent advances in the structural library of functionalized quinazoline and quinazolinone scaffolds: Synthetic approaches and multifarious applications**

pp. 193–244

Imtiaz Khan, Aliya Ibrar, Naeem Abbas and Aamer Saeed\*

This review article aims at providing recent developments in synthetic methodologies to access quinazoline and quinazolinone scaffolds with their diverse array of potential biological applications.

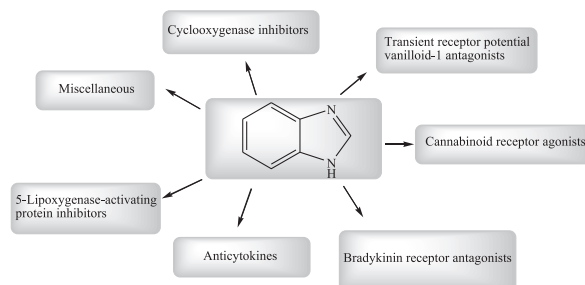


**Benzimidazole: An emerging scaffold for analgesic and anti-inflammatory agents**

pp. 494–505

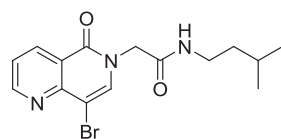
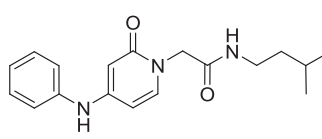
Monika Gaba\*, Sarbjot Singh and Chander Mohan

Benzimidazole is a privileged structure in medicinal chemistry recently emerged as pharmacophore of choice for designing analgesic and anti-inflammatory agents acting on different clinically approved targets for pain and inflammation.

**ORIGINAL ARTICLES****Identification of a new series of amides as non-covalent proteasome inhibitors**

pp. 1–9

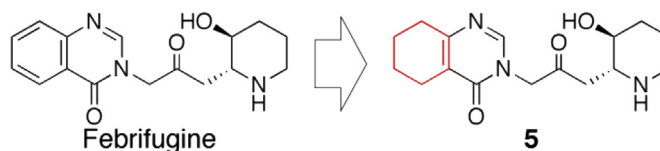
Kety Scarbaci, Valeria Troiano, Nicola Micale, Roberta Ettari\*, Lucia Tamborini, Carmen Di Giovanni, Carmen Cerchia, Silvana Grasso, Ettore Novellino, Tanja Schirmeister, Antonio Lavecchia and Maria Zappalà

**1b**ChT-L  $K_i = 0.56 \mu\text{M}$ **1f**ChT-L  $K_i = 0.33 \mu\text{M}$ **Synthesis of febrifugine derivatives and development of an effective and safe tetrahydroquinazoline-type antimalarial**

pp. 10–19

Haruhisa Kikuchi\*, Seiko Horoiwa, Ryota Kasahara, Norimitsu Hariguchi, Makoto Matsumoto and Yoshiteru Oshima

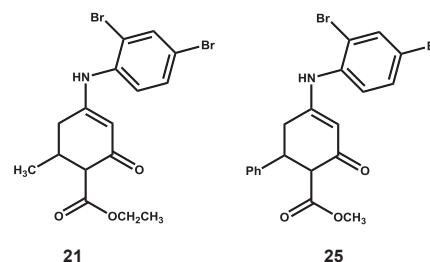
New derivatives of febrifugine were synthesized, and their *in vitro* and *in vivo* antimalarial activities were evaluated. As a result, we proposed tetrahydroquinazoline-type derivative **5** as a safe and effective antimalarial candidate.

**Synthesis, neuronal activity and mechanisms of action of halogenated enaminones**

pp. 20–30

Ivan O. Edafigho\*, Mohamed G. Qaddoumi, Kethireddy V.V. Ananthalakshmi, Oludotun A. Phillips and Samuel B. Kombian

A series of halogenated enaminones were synthesized and screened for neuronal activity. Some dihalogenated analogues were neuroactive and compounds **21** and **25** were the most potent anti-convulsant enaminones.



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