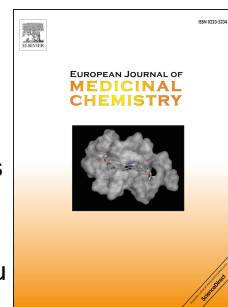


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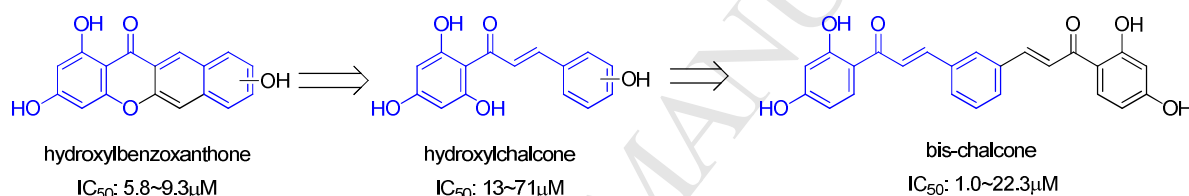
Graphical Abstract

Analogues of Xanthenes——Chalcones and Bis-chalcones as α -Glucosidase Inhibitors and anti-Diabetes Candidates

Chao-Yun Cai^a, Li Rao^a, Yong Rao^b, Jin-Xuan Guo^a, Zhi-Zun Xiao^a, Jing-Yu Cao^a, Zhi-Shu Huang^b, Bo Wang^{a,*}

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Two series of chalcones and bis-chalcones were synthesized and exhibited α -glucosidase inhibition *via* a non-competitive mechanism. Moreover, the compound **2g** could significantly reduce the glucose level in HepG-2 cells.

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