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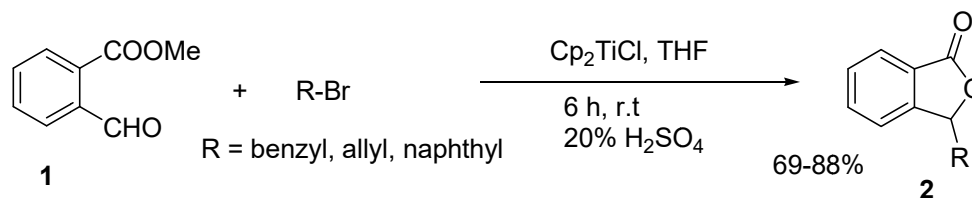
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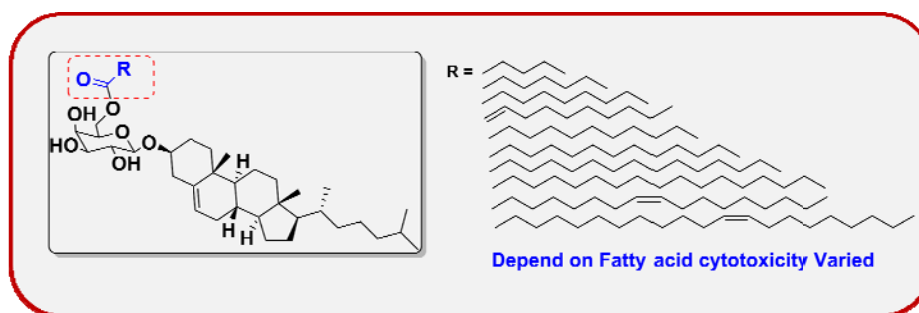
- 85 **Titanocene(III) chloride mediated radical induced synthesis of isobenzofuranones via allylation of aldehydes followed by *in situ* lactonization**
- Titanocene(III) chloride (Cp_2TiCl) mediated radical induced methodology has been developed for the synthesis of 3-substituted isobenzofuranones from activated bromo compounds and methyl-2-formyl benzoate in good to moderate yield. The radical initiator titanocene(III) chloride (Cp_2TiCl) has been prepared from commercially available Cp_2TiCl_2 and Zn dust in THF under argon.



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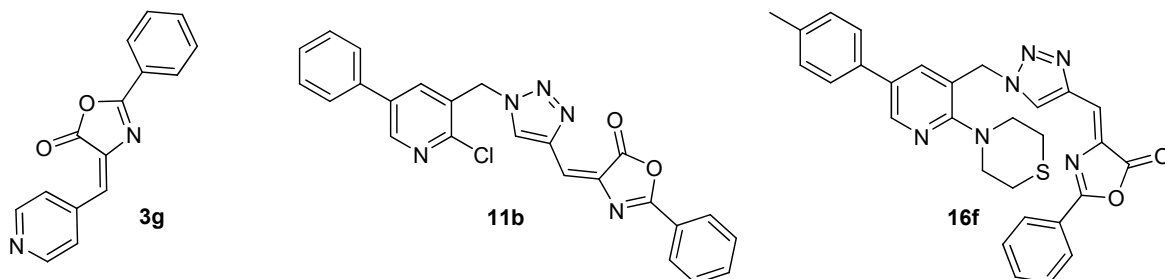
- 91 **Synthesis and cytotoxic evaluation of cholesteryl 6-O-acyl- β -D-galactopyranosides**



Srikanth Vudhgiri, Koude Dhevendar, Sunil Misra, R B N Prasad & Ram Chandra Reddy Jala*

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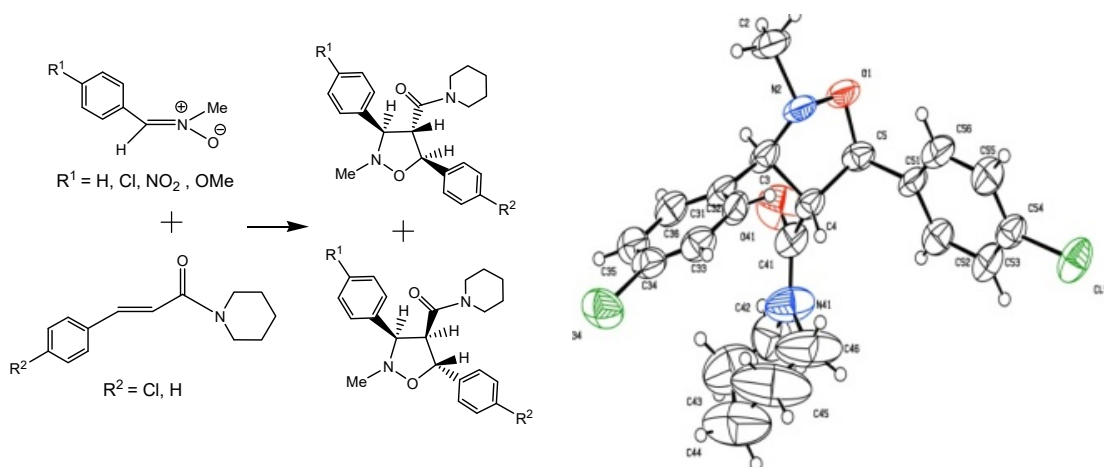
- 98 Synthesis and biological activities of nicotinaldehyde based azlactones** A series of nicotinaldehyde based azlactones **3a-g**, **6a-f**, **11a-d**, **16b-c**, and **16e-f** have been prepared and screened for their biological activities. Compound **3g** is the most potent α -glucosidase inhibitor followed by compounds **6b** and **6a**. Compound **11b** is the better DPPH and ABTS⁺ radical scavenger. Compounds **11c-d** and **16f** show anti-proliferative activity on all the tested cell lines. However, compounds **16c** and **16e** display anti-proliferative activity on MCF7 and HeLa cell lines.



Ch Dayakar, L Mounika, K Rajkumar, A Zehra, T R Murthy, Shasi V Kalivendi, A K Tiwari & B China Raju*

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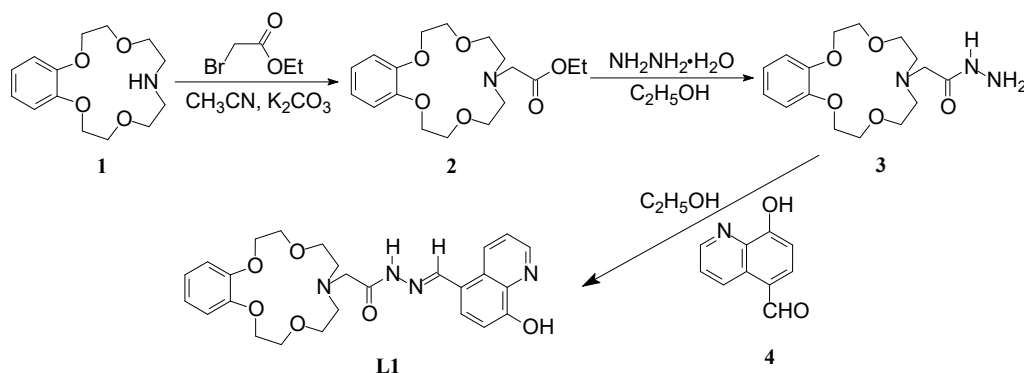
- 108 Experimental and DFT studies for substituent effects on cycloadditions of C,N-disubstituted nitrones to cinnamoyl piperidine**



Sutapa Mandal, Kaustabh K Maiti, Avijit Banerji, Thierry Prangé, Alain Neuman & Nivedita Acharjee*

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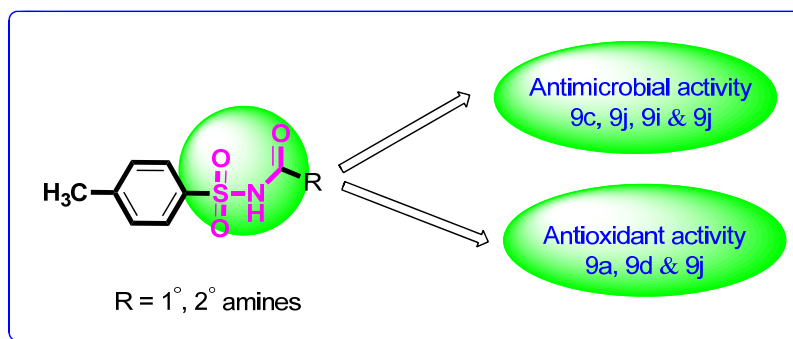
- 120 A novel selective chemosensor for Mg^{2+} detection based on quinoline-hydrazone-crown ether** A novel quinoline-hydrazone-crown ether (**L1**) has been synthesized, the chemo-sensing characteristics of **L1** have been investigated in the presence of alkali and alkaline metal ions using UV-Vis and fluorescence measurements.



Ruifang Ma, Qiaohong Li & Qiang Zhang*

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- 127 Sulfonylurea derivatives of tolbutamide analogues: Synthesis and evaluation of antimicrobial and antioxidant activities**



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