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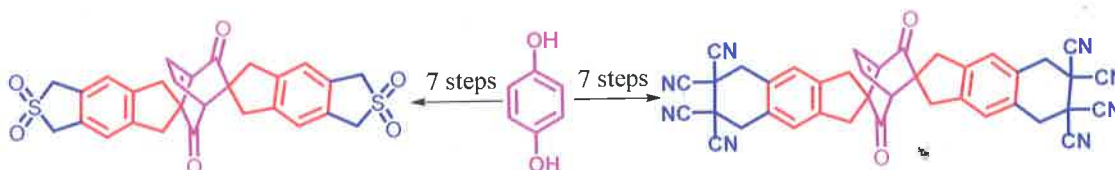
NUMBER 12

December 2017

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Papers

- 1231 Two directional approach to spirocycles containing bicyclo[2.2.2]octane system via a [2+2+2] co-trimerization and Diels-Alder reaction

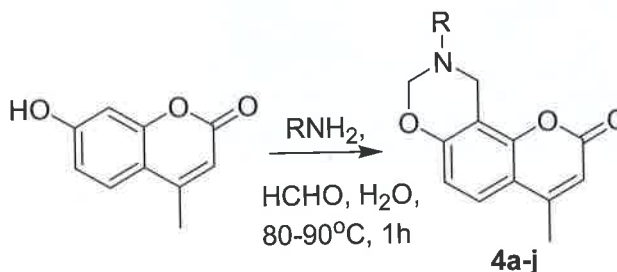


Sambasivarao Kotha*, Mohammad Saifuddin, Rashid Ali, Mukesh E Shirbhate & Gaddamedi Sreevani

Department of Chemistry, Indian Institute of Technology Bombay, Powai, Mumbai 400 076 India

- 1237 Environmentally benign synthesis and anti-mycobacterial evaluation of 9,10-dihydro-4-methyl-chromeno[8,7-*e*][1,3]oxazin-2(8*H*)-one derivatives

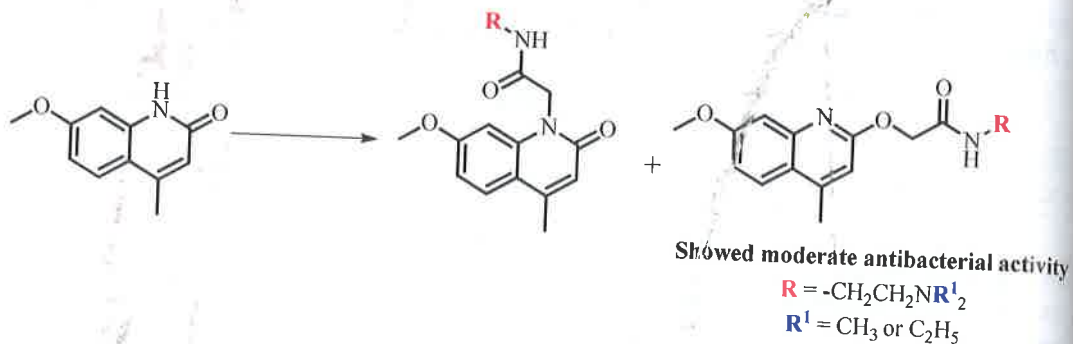
A series of 9,10-dihydro-4-methyl-chromeno[8,7-*e*][1,3]oxazin-2(8*H*)-ones **4a-j** have been synthesized by using eco-friendly protocol and screened for their *in vitro* efficacy against *Mycobacterium tuberculosis* H37Rv. Six of the test compounds exhibit significant anti-mycobacterial potential with MIC values in the range of 5-25 µg/mL. On cytotoxic evaluation by using MTT assay, the lead compounds, **4g** and **4h** offer remarkable viability of HEK-293 cells at the highest test concentration (100 µg/mL).



Bijoy P Mathew, Rashmi Tandon, Neha Batra, Drishti Agarwal, Mridula Bose, Rinkoo D Gupta & Mahendra Nath*

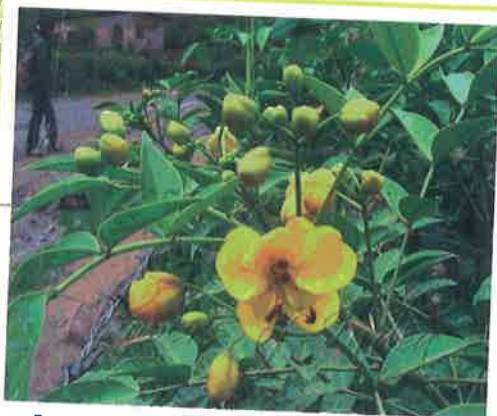
Department of Chemistry, University of Delhi, Delhi 110 007, India

- 1243 Synthesis and antibacterial activity screening of *N*- and *O*-substituted quinolin-2-one acetamide derivatives

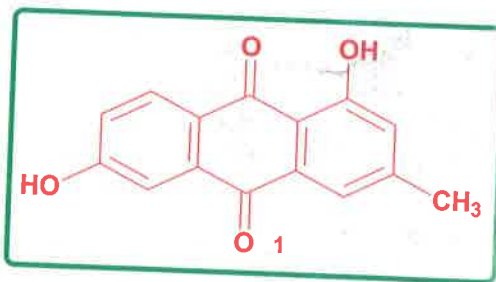


Karam Chand, Preeti Yadav, Suchita Prasad & Sunil K Sharma*
Department of Chemistry, University of Delhi, Delhi 110 007, India

- 1251 1,6-Dihydroxy-3-methyl-9,10-anthraquinone: An An anthraquinone pigment, 1,6-dihydroxy-3-methyl-9,10-anthraquinone 1, has been isolated from *Cassia sophora* Linn. (Caesalpiaceae) anti-cancerous natural pigment from *Cassia sophora* roots evaluated for its anticancer property.



Cassia sophora (Family: Caesalpiaceae)

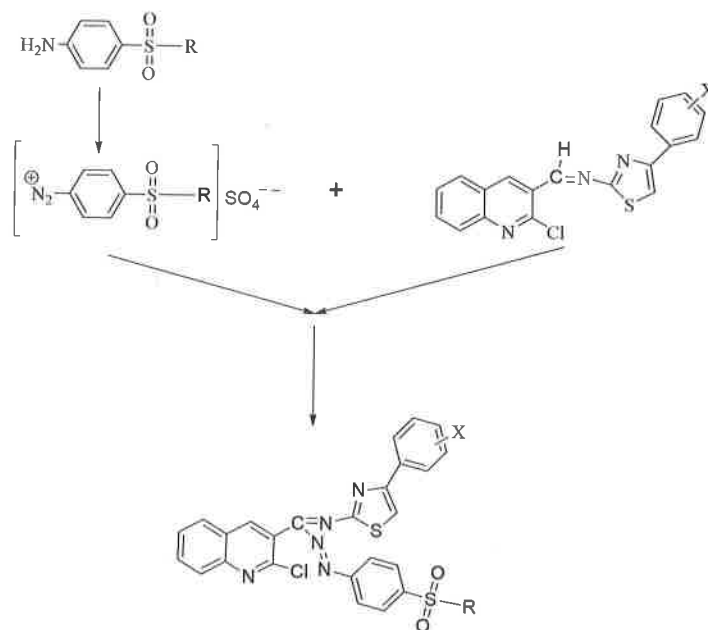


1,6-Dihydroxy-3-methyl-9,10-anthraquinone (1)
(anti-cancerous anthraquinone derivative 1
isolated from *Cassia sophora* roots)

Goutam Brahmachari*, Avijit Mondal, Sadhan Mondal, Luzia Valentina Modolo, Ângelo de Fátima, Ana Lúcia Tasca Góis Ruiz & João Ernesto de Carvalho

Laboratory of Natural Products and Organic Synthesis, Department of Chemistry, Visva-Bharati (a Central University), Santiniketan 731 235, India

1256 Cytotoxic investigation of some newly synthesized quinoline-thiazole based azo compounds

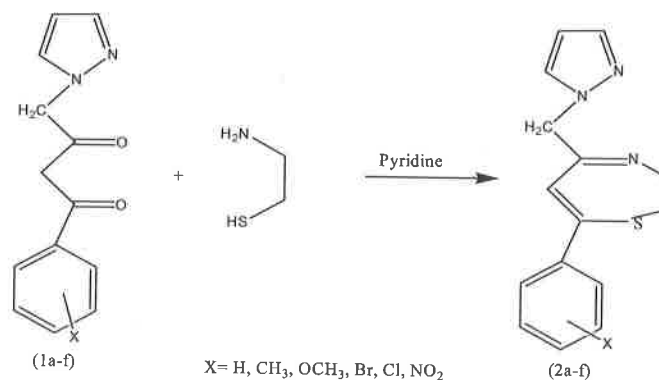


Priyambada Kshiroda Nandini Sarangi*, Jyotirmaya Sahoo, Somalisa Behera, Sudhir Kumar Paidesetty & Guru Prasad Mohanta

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1265 Synthesis and characterization of thiazepine derivatives and their biological activity

A very convenient, efficient method for one step synthesis of novel 1,4-thiazepine 2a-f and 1,5-benzothiazepines 3a-f derivatives by condensation reaction of 1,3-diketones derivatives 1a-f with 2-aminoethanethiol/2-amino-benzenethiol in presence of pyridine in catalytic amount has been described.



Neetu Kumari*, Rajesh Kumar, Sonal Hada & Y C Joshi

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