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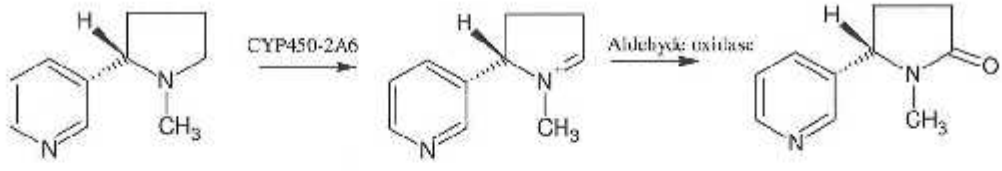
CONTENTS

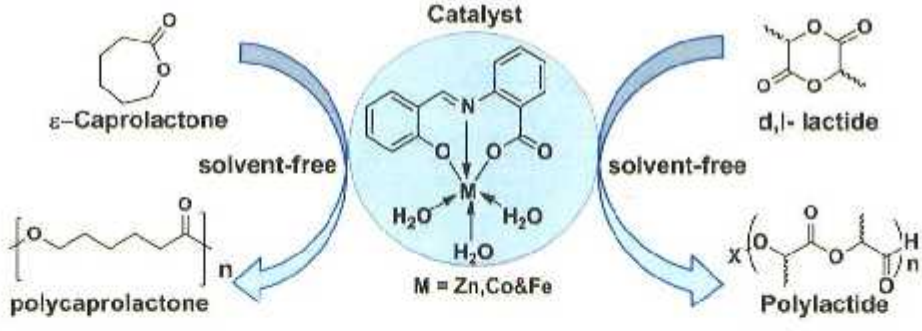
Advances in Contemporary Research



Sankar P Mitra

Integrated Pharmaceuticals Inc. 310, Authority Drive, Fitchburg, Massachusetts, MA 01420, USA

Papers

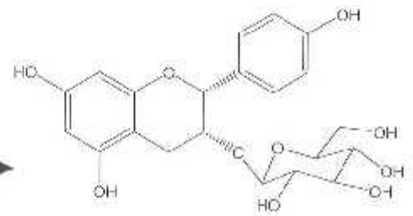


Somasundaram Saravanamoorthy & Sivan Velmathi*

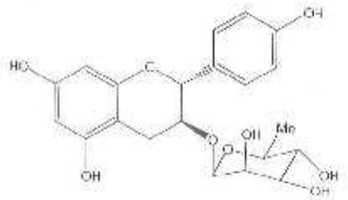
Organic and Polymer Synthesis Laboratory, Department of Chemistry, National Institute of Technology, Tiruchirappalli 620 015, India

353 **Isolation and HPLC profiling of chemical constituents of *Saraca asoca* stem bark**

Different extracts of *S. asoca* stem bark have yielded 17 compounds when chemically analyzed. HPLC profiling of methanol and aqueous methanol extracts have been developed which will be useful in the authentication of the material.



13, 3'-Deoxyepicatechin-3-O-β, D-glucopyranoside



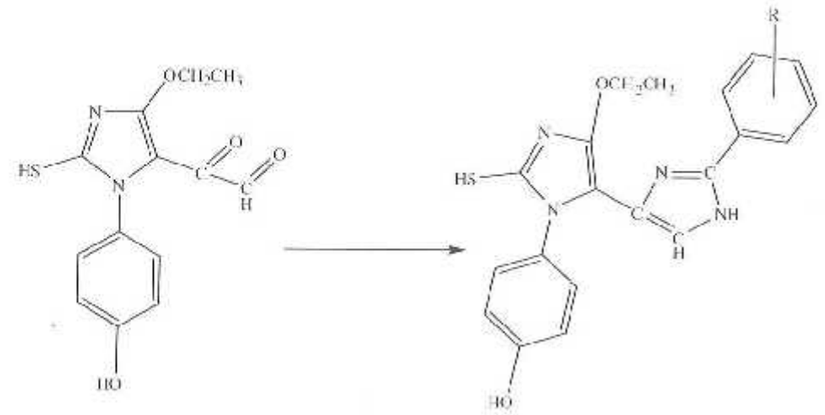
15, 3' Deoxycatechin-3-O-α, L-rhamnopyranoside

Furkan Ahmad, Laxminarain Misra*, Rashi Tewari, Preeti Gupta, Vivek K Gupta & Mahendra P Darokar

Chemical Sciences Division, CSIR-Central Institute of Medicinal and Aromatic Plants, P.O. CIMAP, Lucknow 226 015, India

362 **Synthesis and biological studies of thiol derivatives containing imidazole moiety**

A series of thiol derivatives containing imidazole moiety have been synthesized and their antibacterial and antifungal activities have been reported. The structural elucidation of all the synthesized compounds have been confirmed by their spectral/elemental data analysis.



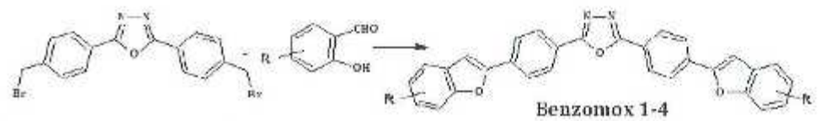
Where R- H, Cl, OH, NO_2, OCH_3, $N(CH_3)_2$, F

Sarita Gupta, Purnima Verma & Virendra Singh*

Department of Chemistry, University of Lucknow, Lucknow 226 007, India

368 **Novel bipolar diaryloxadiazole-benzofuran conjugates: Synthesis, optical, electrochemical and thermal studies**

A series of diaryloxadiazole-benzofuran conjugates has been synthesized. The results suggest that benzomox-2 and 3 could function as high emitting host materials on account of blue emission, decent quantum yields, large band gaps and high thermal stabilities.



R=H, $C(CH_3)_3$, OCH_3, $N(CH_3)_2$

Sabir H Vlashraqui*, Shailesh G Ghadigaonkar & Sushil Ghorpade

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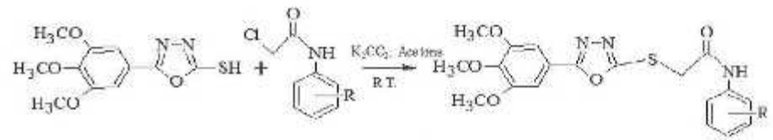
374 **Synthesis and antimicrobial activities of various *N*-phenyl-2-{[5-(3,4,5-trimethoxyphenyl)-1,3,4-oxadiazol-2-yl]sulfanyl}acetamides**

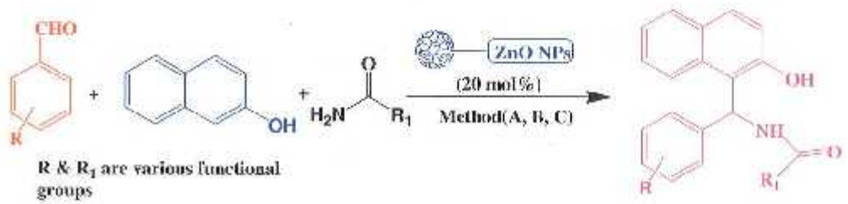


Maharshi B Shukla, Jyotindra B Mahyavanshi* & Kokila A Parmar

Department of Chemistry, Hemchandracharya North Gujarat University, Patan 384 265, India

381 **An efficient synthesis of 1-amidoalkyl-2-naphthols catalyzed by zinc oxide nanoparticles under solvent-free conditions**

Various techniques have been studied to establish a clean and efficient method for the rapid synthesis of 1-amidoalkyl-2-naphthols employing zinc oxide nanoparticles as non-toxic and recyclable catalyst.



R & R_1 are various functional groups

Method A: Microwave irradiation
Method B: Oil bath
Method C: Hot plate

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