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The Inspiration Engine of India  
A CSIR PUBLICATION

Indian J Chem (Monthly)

DECEMBER 2025

CODEN: IJCN16 64 (12) 1117-1206 (2025)

ISSN: 0019-5103 (Print), 2583-1321 (Online)

indjchem@niscp.res.in

# Indian Journal of Chemistry

IJC  
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<https://niscp.res.in>

CSIR-National Institute of Science Communication and Policy Research  
New Delhi, INDIA

# Indian Journal of Chemistry

VOL. 64

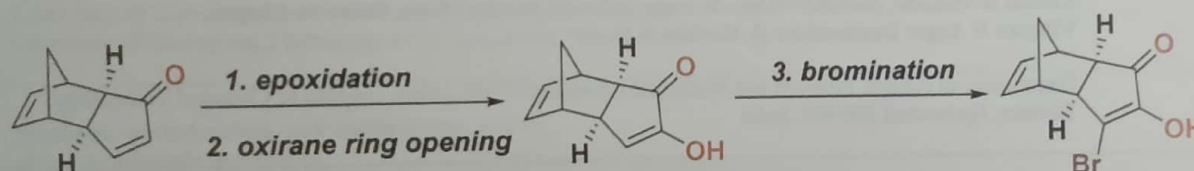
NUMBER 12

DECEMBER 2025

## CONTENTS

### Papers

- 1127 Synthesis of  $\alpha$ -hydroxy,  $\beta$ -bromo-*exo*-dicyclopentadiene-1-one: A new building block for cyclopentanoids

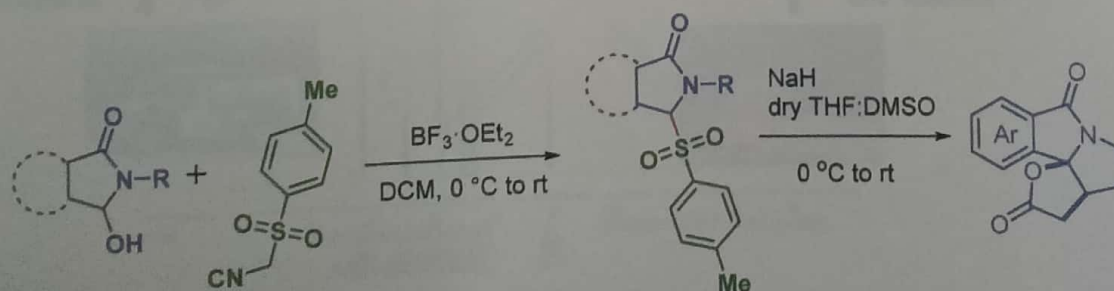


Sambasivarao Kotha\* & Ramakrishna Reddy Keesari

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

- 1133 Lewis acid-promoted synthesis of 3-tosylisoindolinone from 3-hydroxyisoindolinone: Access to complex fuopyrroloisoindoleione

An efficient methodology has been developed for the synthesis of 3-tosylisoindolin-1-one scaffold from hydroxyisoindolinone *via* N-acyliminium ion intermediate using TosMIC and Lewis acid in good to excellent yields. The protocol has been extended for the synthesis of complex fuopyrroloisoindoleione derivatives.

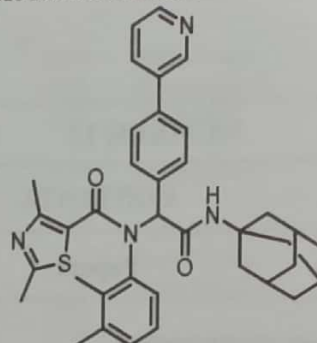


Malay Das, Virendra Kumar, Pallav Jyoti Arandhara, Subhamoy Biswas & Anil K Saikia\*

Department of Chemistry, Indian Institute of Technology Guwahati, Guwahati 781 039, India

1144 Antituberculosis activity of  $\alpha$ -aminoacyl amide derivatives

The  $\alpha$ -aminoacyl amide **19b** shows antituberculosis activity with MIC 2.5  $\mu$ M.



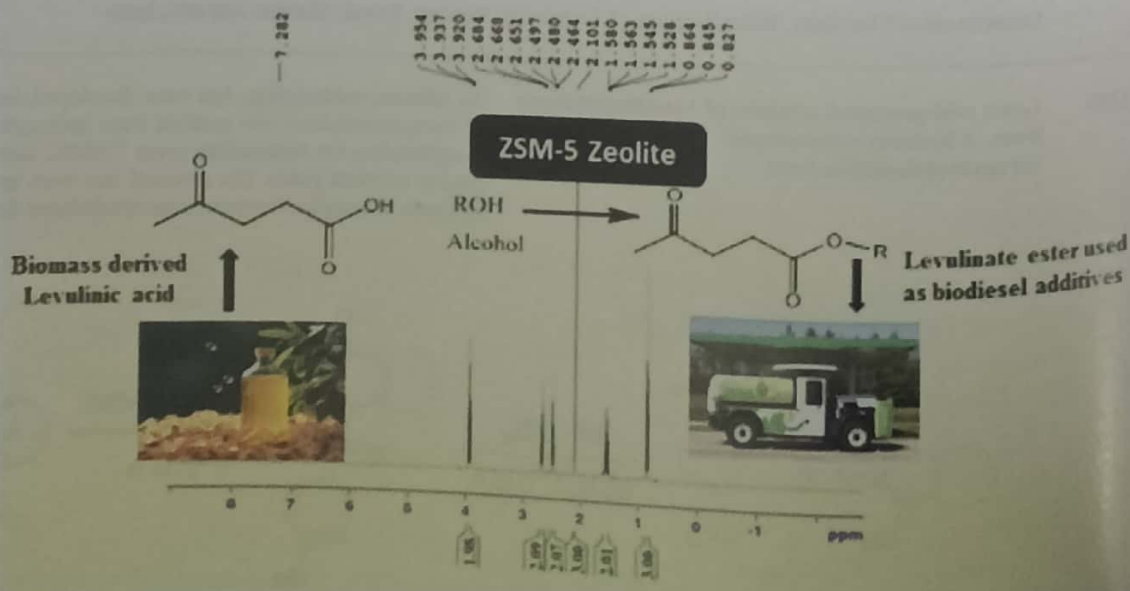
**19b**

Vitthal B Makane, Akash U Sinde, B Angayarkanni, Pradip Malik, Sidharth Chopra, Vijayan N Azger Dusthacker & Haridas B Rode\*

Department of Natural Products and Medicinal Chemistry, CSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad 500 007, India

1156 Esterification of levulinic acid with alcohol catalyzed by hierarchically porous ZSM-5 zeolites: A study on catalyst efficiency and product selectivity

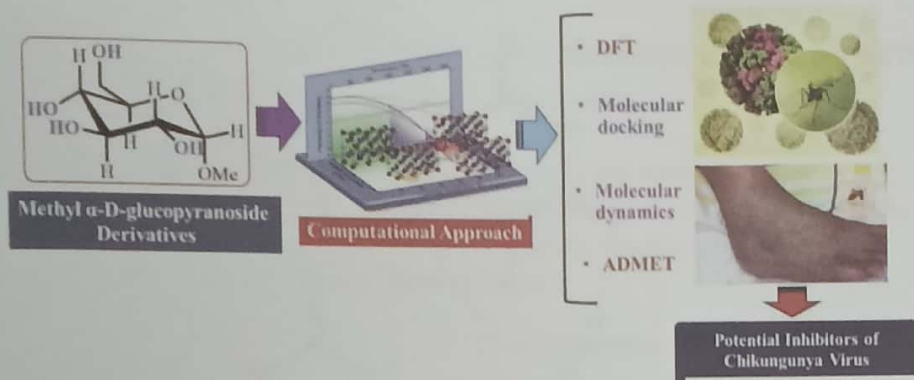
This article evaluates the catalytic performance of ZSM-5 zeolites synthesized using corn stem pith powder as a hard template in the esterification of levulinic acid with 1-propanol and heptanol.



K Manikandan\*, A Shalini, K Deepa, G Kaladevi, N Valarmathi, I Muthuvel & G Thirunarayanan

Department of Chemistry, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Ramapuram, Chennai 600 089, Tamil Nadu, India

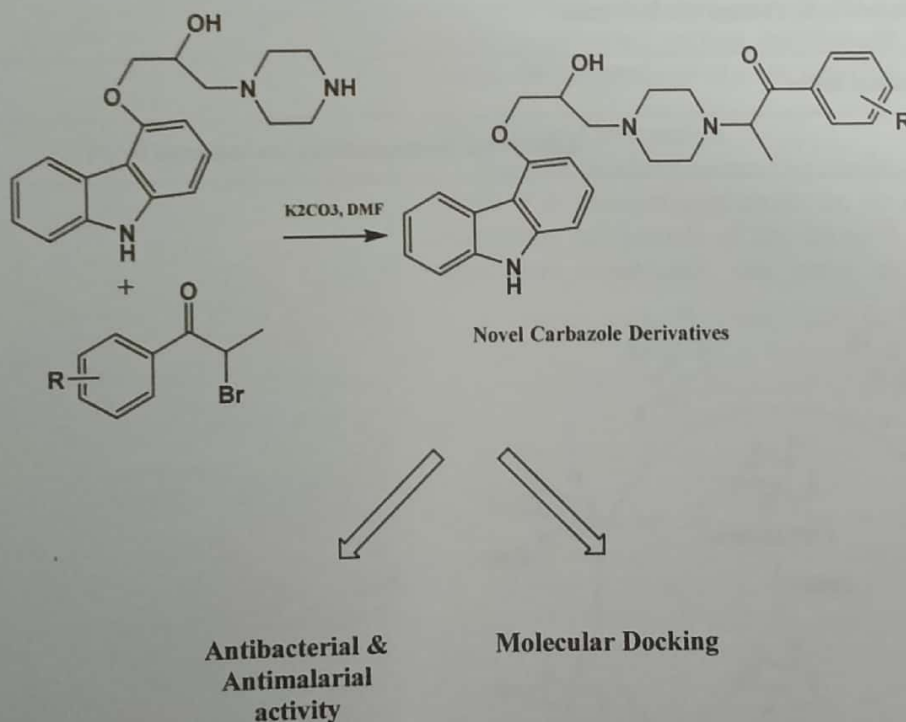
- 1164 Molecular docking, dynamics simulation, DFT, MEP, PASS and ADMET approaches to methyl  $\alpha$ -D-glucopyranoside derivatives for potential inhibitors of chikungunya virus



Nazia Islam, Supriyo Saha & Sarkar M A Kawsar\*

Laboratory of Carbohydrate and Nucleoside Chemistry (LCNC), Department of Chemistry, Faculty of Science, University of Chittagong, Chittagong-4331, Bangladesh

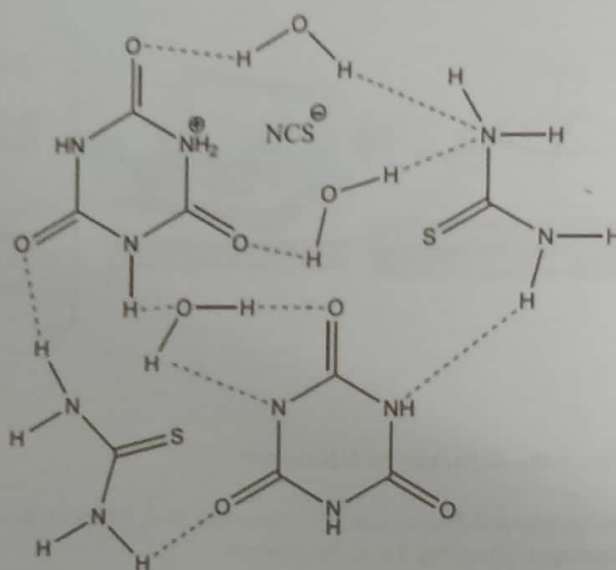
- 1180 Synthesis, antimicrobial and antimalarial activity of novel carbazole derivatives



Piyush Sharma & Tirth H Thaker\*

Department of Chemical Science, Parul Institute of Applied Science, Parul University, Vadodara 391 760, Gujarat, India

- 1186 Supramolecular assembly with hydrogen bonded network solid formed by reaction of cyanuric chloride with thiourea: Spectral and antimicrobial studies



K S Nagaraja\*, V Radhakrishnan, V Raghunathan & S Arun

Advanced Research Institute (ARI), Dr. MGR Educational and Research Institute,  
Maduravoyal, Chennai 600 095, India

- 1194 Annual Index

Authors for correspondence are indicated by (\*)