

Indian Journal of Chemistry

Sect. B: Organic Chemistry including Medicinal Chemistry

VOL. 57B

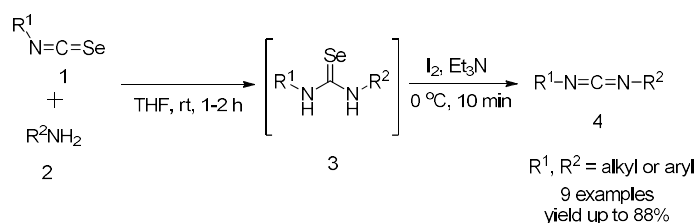
NUMBER 10

October 2018

CONTENTS

Papers

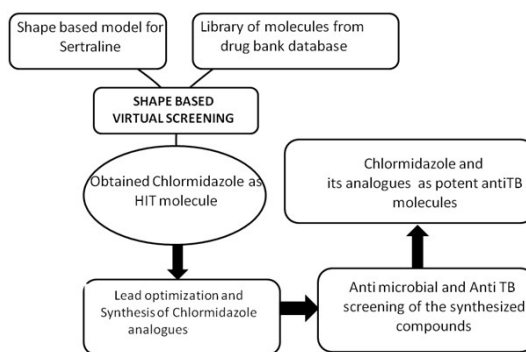
- 1291 Synthesis of carbodiimides from 1,3-disubstituted selenoureas by iodine-mediated deselenization** A rapid and facile one-pot synthesis of symmetrical and unsymmetrical carbodiimides from 1,3-disubstituted selenoureas by iodine-mediated oxidative deselenization in high yields is reported. Selenophilicity of iodine is explored to obtain carbodiimides having alkyl/aryl substitution, which were not easily accessible from the earlier reported protocols.



L Santhosh, Shekharappa, L Roopesh Kumar & Vommina V Sureshbabu*

109, Peptide Research Laboratory, Department of Studies in Chemistry, Central College Campus,
 Dr. B. R. Ambedkar Veedhi, Bangalore University, Bangalore 560 001, India

- 1295 Computer assisted drug repurposing: Anti TB activity in non antibiotics** An approach towards shape based virtual screening method has been conceptualized for drug repurposing. It has helped in finding an obsolete drug chlormidazole with potent TB activity. Chlormidazole and its analogues have been synthesized and screened for anti microbial and anti-TB activities.

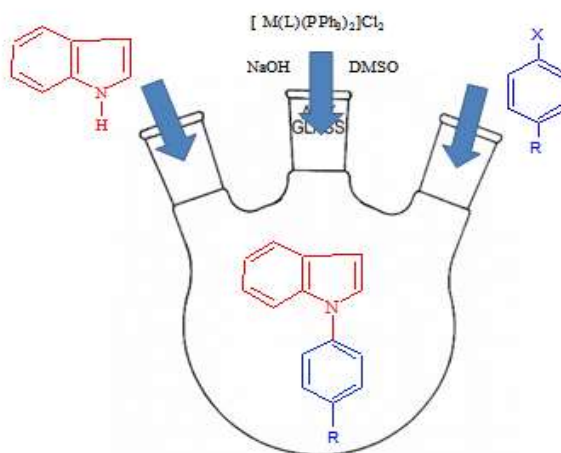
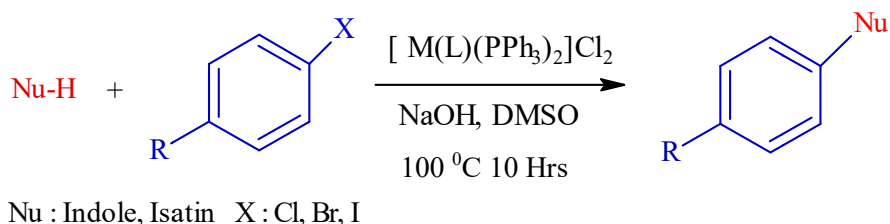


G P V Sangeeta, K Purna Nagasree, Risy Namratha Jamullamudi & Murali Krishna Kumar Muthyala*

Medicinal Chemistry Research Labs, AU College of Pharmaceutical Sciences,
 Andhra University, Visakhapatnam 530 003, India

1304 N-Arylation of heterocycles by mixed ligand transition metal complexes under mild conditions

Mixed ligand transition metal complexes $[M(L)(PPh_3)_2]X_2$ **1-4** where 1-2-phenyl-3-benzoylamino-1,2-dihydro-quinazolin-4(3*H*)-one, (PBADQ) where M is Co, Ni, Cu, Zn and X is Cl, have been synthesized and characterized by elemental analysis, IR, NMR spectral studies and their role as catalyst studied in N-arylation of indole and isatin with aryl halides. It has been observed that all the complexes worked as efficient catalysts, especially $[Ni(L)(PPh_3)_2]Cl_2$ complex **2** which is found to be most suitable for N-arylation of indole and isatin.



S S Hegade*, G A Gaikwad & G N Mulik

Department of Chemistry, Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi 415 301, Dist Sangli, India
(Affiliated to Shivaji University Kolhapur)

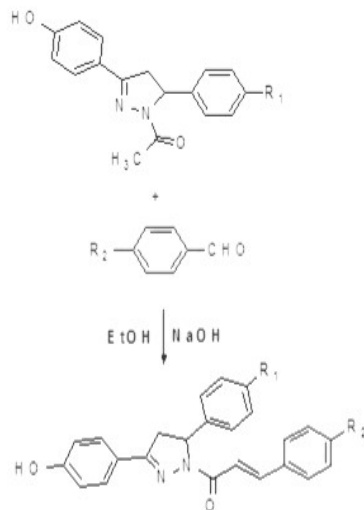
1310 Antibacterial and antifungal activities of some hydroxyacetophenone derivatives

The investigation of antibacterial and antifungal activity of five synthesized compounds **1-5** have been reported. The synthesized compounds have demonstrated poor antifungal, but good antibacterial activity.

I G Mamedov*, A E Farzaliyeva, Y V Mamedova, N N Hasanova, M R Bayramov & A M Maharramov

Baku State University, Chemical Faculty, Z. Khalilov 23, Baku, Azerbaijan

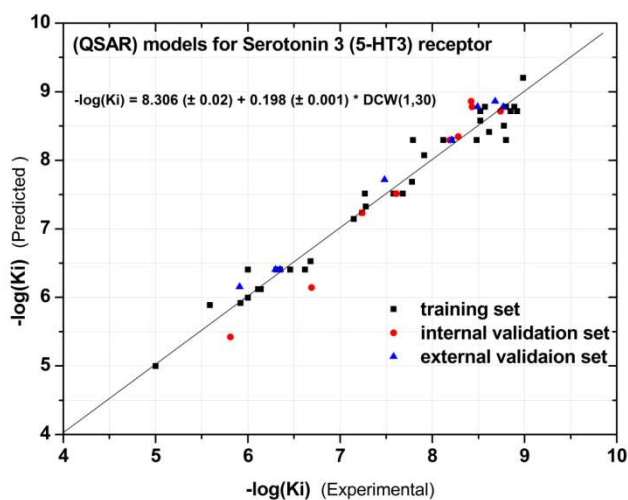
- 1315** **Synthesis, characterization, anti inflammatory activity and molecular docking study of novel pyrazoline derivatives bearing chalcone backbone** Novel pyrazoline derivatives incorporated chalcone backbone have been synthesized, characterized and evaluated for their anti-inflammatory activity.



Upendra Bhadoriya* & Dinesh Kumar Jain

IPS Academy College of Pharmacy, A. B. Road, Rajendra Nagar, Indore 452 012, India

- 1322** **Simplified molecular-input line-entry system based quantitative structure–activity relationship (QSAR) models for serotonin 3 (5-HT₃) receptor**



Sanija Begum, P Ganga Raju Achary*, Andrey A Toropov & Alla P Toropova

Department of Chemistry, Institute of Technical Education and Research (ITER),
Siksha 'O' Anusandhan University, Bhubaneswar 751 030, India

Authors for correspondence are indicated by (*)