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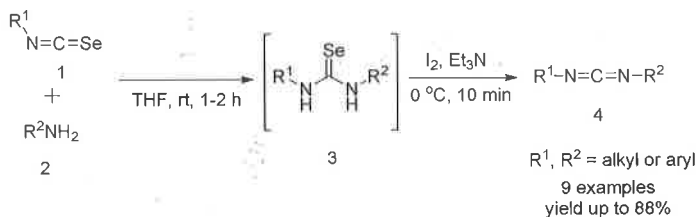
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### Papers

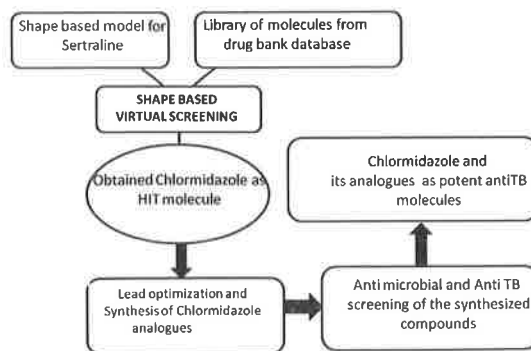
- 1291** **Synthesis of carbodiimides from 1,3-disubstituted selenoureas by iodine-mediated deselenization** A rapid and facile one-pot synthesis of symmetrical and unsymmetrical carbodiimides from 1,3-disubstituted selenoureas by iodine-mediated oxidative deselenization in high yields is reported. Selenophilicity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



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- 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.

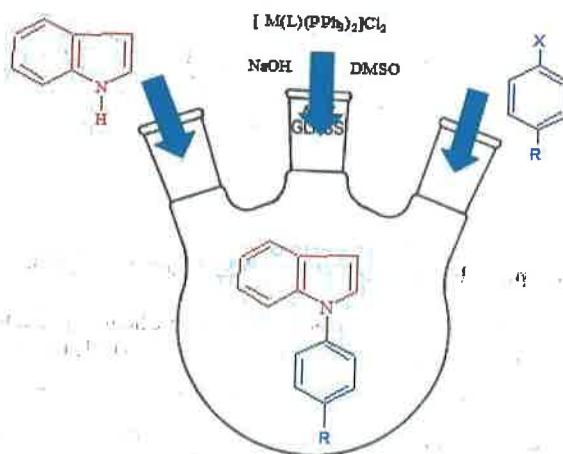
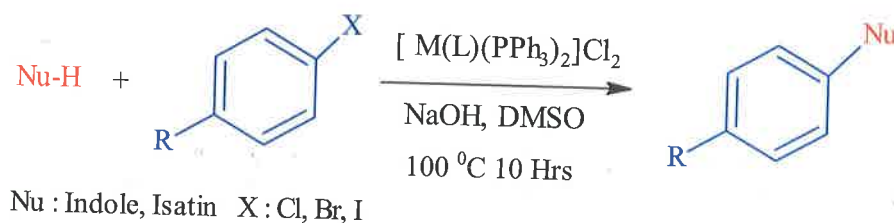


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**1304 N-Arylation of heterocycles by mixed ligand transition metal complexes under mild conditions**

Mixed ligand transition metal complexes  $[M(L)(PPh_3)_2]X_2$  1-4 where L-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.



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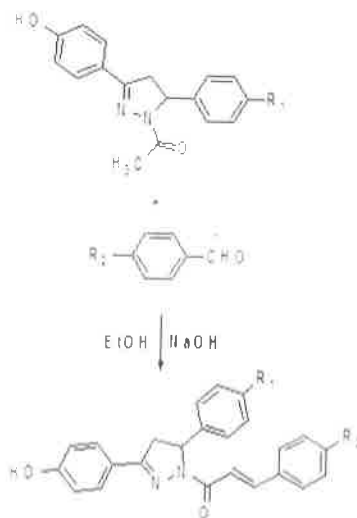
**1310 Antibacterial and antifungal activities of some hydroxyacetophenone derivatives**

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.

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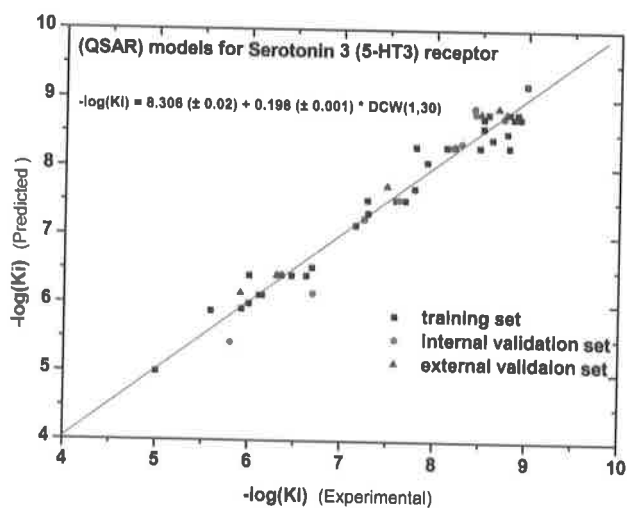
- 1315 **Synthesis, characterization, anti inflammatory activity and molecular docking study of novel pyrazoline derivatives bearing chalcone backbone** Novel pyrazoline derivatives incorporated chalcone backbone have been synthesized, characterized and evaluated for their anti-inflammatory activity.



Upendra Bhadoriya\* & Dinesh Kumar Jain

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- 1322 **Simplified molecular-input line-entry system based quantitative structure-activity relationship (QSAR) models for serotonin 3 (5-HT<sub>3</sub>) receptor**



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