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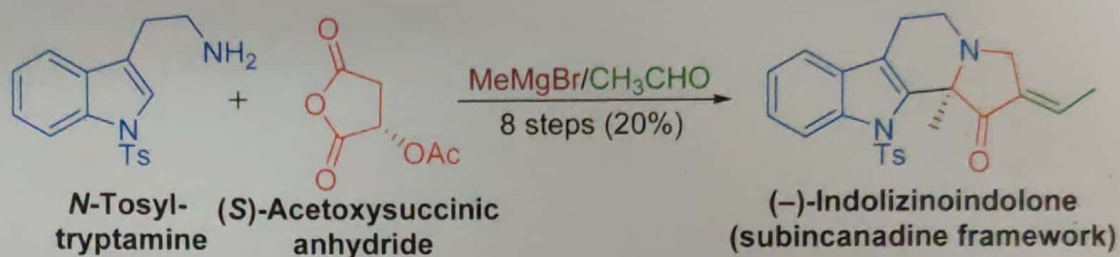
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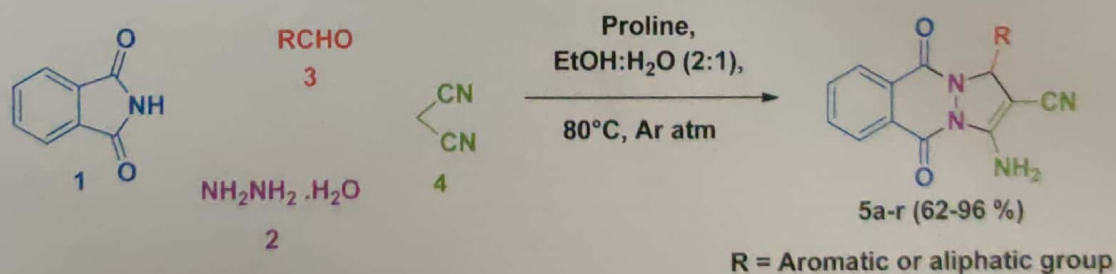
- 669 Stereoselective synthesis of subincanadine alkaloids framework



Manojkumar G Kalshetti & Narshinha P Argade*

Division of Organic Chemistry, CSIR-National Chemical Laboratory, Pune 411 008, India

- 674 An efficient one-pot four-component synthesis of 1*H*-pyrazolo[1,2-*b*] phthalazine-5,10-dione derivatives catalyzed by proline

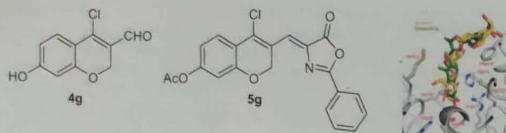


Dipanwita Banerjee & Gourhari Maiti*

Department of Chemistry, Jadavpur University, Kolkata 700 032, India

680 Synthesis, free radical scavenging and α -glucosidase inhibitory activities of 2*H*-chromenyl-phenyloxazolones

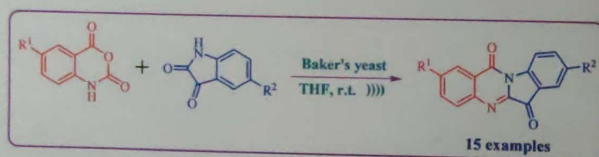
A series of 2*H*-chromenylphenyloxazolones have been prepared starting from 2*H*-chromene-3-carbaldehydes. The compounds have been evaluated for their DPPH, ABTS^{•+} free radical scavenging and α -glucosidase inhibitory activities. Compound **4g** has been identified as the most potent ABTS^{•+} free radical scavenger when compared to the standard drug. The compounds **4k**, **5a-c** and **5g** are identified as potent ABTS^{•+} free radical scavengers in the present series of the compounds. Compound **5g** has been identified as a promising α -glucosidase inhibitor. Molecular modeling studies have been carried out for compound **5g** to explain the molecular basis of α -glucosidase inhibition.



E Varsha Reddy, K S Hariprasad, A Zehra, P Vijaykumar, A K Tiwari, A Addlagatta & B China Raju*

Organic Synthesis and Process Chemistry Division, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, India

691 Biocatalyst mediated synthesis of tryptanthrin performed under ultrasonication

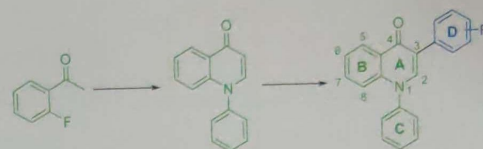


Ananda Mane, Siddharth Kamat, Audumbar Patil & Rajashri Salunkhe*

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698 A simple synthesis of 1,3-di-aryl-quinolone derivatives by palladium catalyzed cross-coupling reaction

An approach for the preparation of *N*-aryl-quinolone via enaminone synthesis and derivatization at 3 position has been accomplished by the palladium catalyzed Suzuki cross coupling reaction.

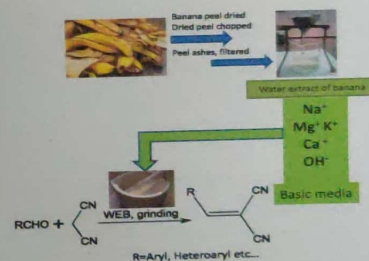


P Ravi Kumar, A Jaya Shree, K Raghavulu, K Basavaiah, Venu Kandula, Anindita Chatterjee, Satyanarayana Yennam & Manoranjan Behera*

Department of Medicinal Chemistry, GVK Biosciences Pvt. Ltd., Plot Nos 125(part) & 126, IDA, Mallapur, Hyderabad 500 076, India

706 WEB: A green and an efficient catalyst for Knoevenagel condensation under grindstone method

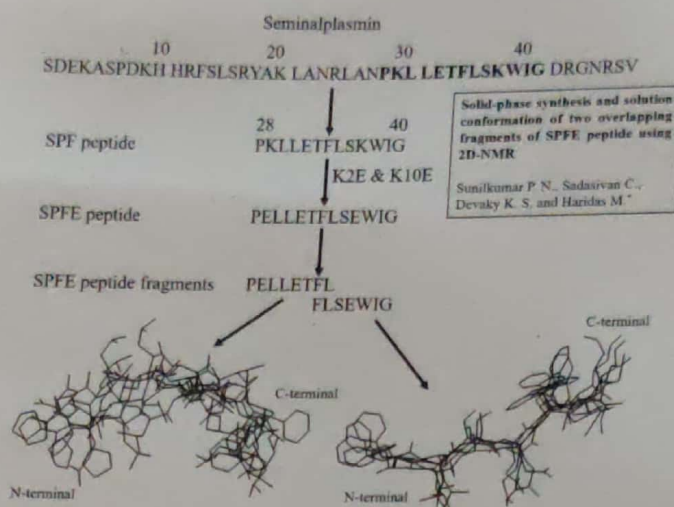
A greener, economic and efficient approach for Knoevenagel condensation of substituted heteroaryl/aryl aldehydes with malononitrile catalyzed by WEB under grindstone method at room temperature is described. The total process is advantageous over conventional methods that involve reflux, heating, expensive approaches. The present approach also reduced reaction time.



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- 714 Solid-phase synthesis and solution conformation of two overlapping fragments of SPFE peptide using 2D-NMR

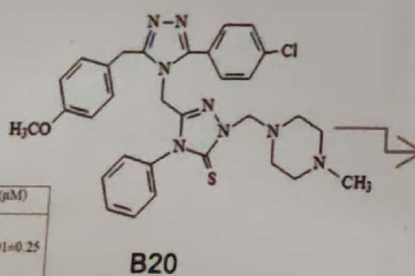
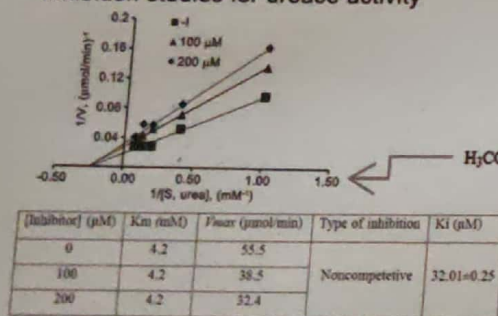


Sunilkumar P N, Sadasivan C, Devaky K S & Haridas M*

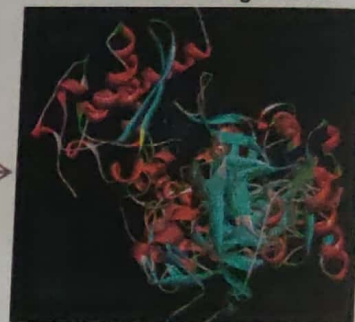
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- 720 Inhibition of urease by some new synthesized 1,2,4-triazol derivatives: Inhibition mechanism and molecular docking

Inhibition studies for urease activity



Molecular modeling studies



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