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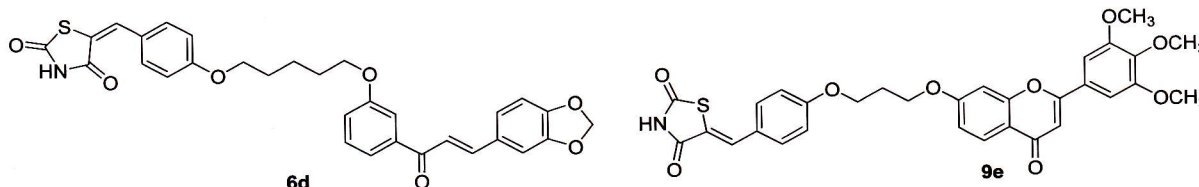
APRIL 2021

CONTENTS

Papers

579 **Synthesis and biological evaluation of thiazolidinedione derivatives of chalcones and flavones as antihyperglycemic and antidyslipidemic agents**

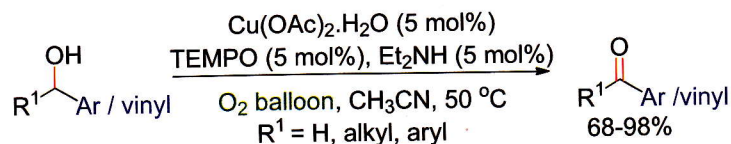
A series of chalcone and flavone derivatives based on 2,4-thiazolidinedione **6a-d**, **9a-f** have been synthesized and evaluated for *in vivo* antihyperglycemic activity in sucrose loaded (SLM) and streptozotocin (STZ) induced diabetic animal models and also for antidyslipidemic activity in the triton model. The selected most potent compounds, **6d** and **9e** have also been studied in *db/db* mice for both antihyperglycemic and antidyslipidemic activity.



Mavurapu Satyanarayana*, Poonam Shukla, Brajendra K Tripathi, Priti Tiwari, Arvind K Srivastava & Ram Pratap

Division of Medicinal and Process Chemistry, CSIR-Central Drug Research Institute, Sector 10, Jankipuram Extension, Sitapur Road, Lucknow 226 031, India

589 **Selective aerobic oxidation of benzylic and allylic alcohols catalyzed by Cu(OAc)₂/TEMPO/Et₂NH**



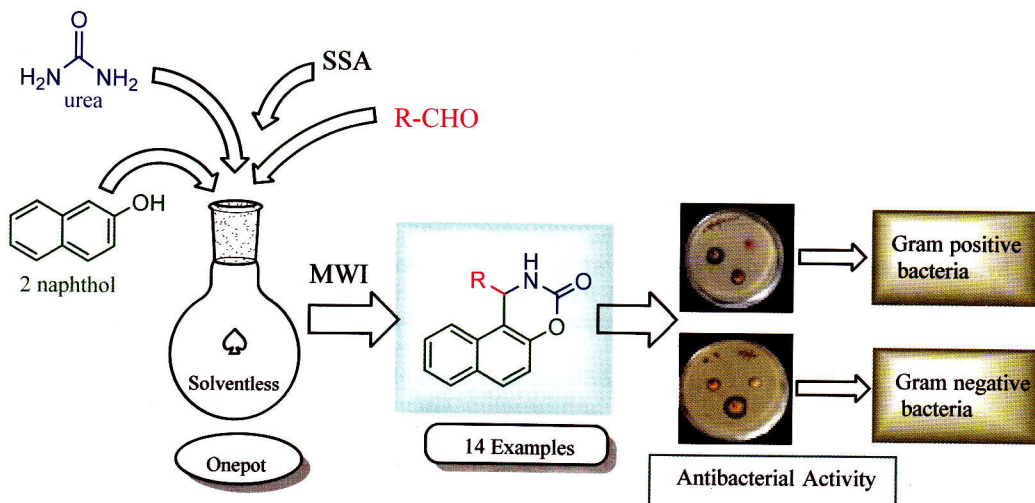
-  Cheap copper salt
-  Low catalyst loading
-  Excellent selectivity

Bala Gangadhar Pasupuleti, Achinta Gogoi & Ghanashyam Bez*

Department of Chemistry, North-Eastern Hill University, Shillong 793 022, India

- 598 **Silica sulfuric acid catalyzed green synthesis of 1,2-dihydro-1-aryl naphtho[1,2-e][1,3]-oxazin-3-one and 1,2-dihydro-1-methyl naphtho[1,2-e][1,3]-oxazin-3-one as potent antibacterial agents**

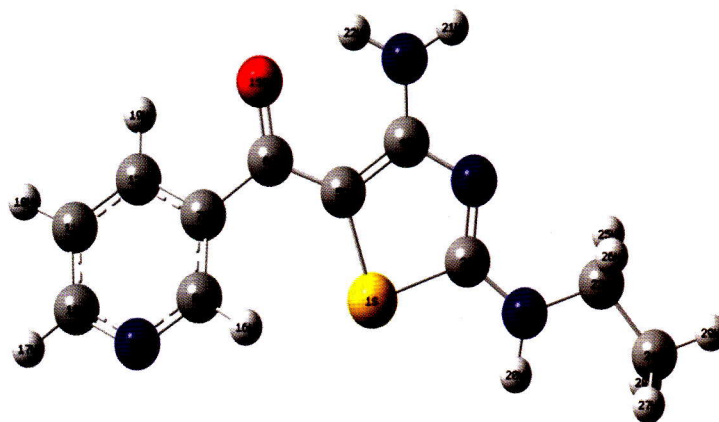
A simple, efficient and green method for the SSA catalysed preparation of naphthooxazinones employing easily available reagents 2-naphthol, aldehydes and urea along with a study on their antibacterial property is reported.



Betokali K Zhimomi, Putusenla Imchen, Metsütu Thurr, Lensayula, Shokip Tumtin & Tavishe Phucho*

Department of Chemistry, Nagalad Univerity, Lumami 798 627, Zunheboto, India

- 605 **Synthesis, computational studies and antioxidant activity of some 3-(2-alkylamino-4-aminothiazole-5-oyl)pyridines**

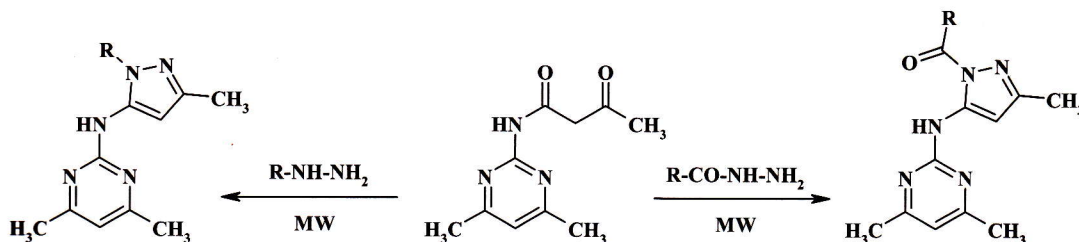


S Mahil Rani, J Brindha & T F Abbs Fen Reji*

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Dist. Kanyakumari, Tamil Nadu, India

611 Synthesis of pyrimidine linked pyrazole heterocyclics by microwave irradiative cyclocondensation and evaluation of their insecticidal and antibacterial potential

The compounds (4,6-dimethyl-pyrimidin-2-yl)-(5-methyl-2-substituted phenyl/*H*-pyrazol-3-yl)-amines and (4,6-dimethyl-pyrimidin-2-yl)-(5-methyl-2-substituted benzoyl/isonicotinoyl-pyrazol-3-yl)-amines have been synthesized by microwave irradiative cyclocondensation of *N*-(4,6-dimethyl-pyrimidin-2-yl)-3-oxo butyramide with substituted hydrazines and acid hydrazides respectively. The pyrimidine linked pyrazol-3-yl amines on acylation afford mono/di-acetyl derivatives. Title compounds have been screened for their insecticidal activity and evaluated for antibacterial potential to establish the structure activity relationship.



Kalpna A Palaspagar & Pradip P Deohate*

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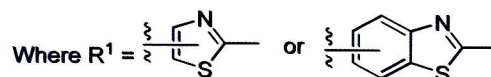
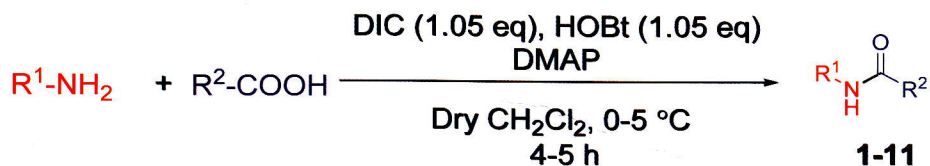
616 Synthesis, characterization and evaluation of new thiazole derivatives as anthelmintic agents

Sai Krishna Guduru, D Kumaraswamy*, K Sirisha & K Sai Santhoshi

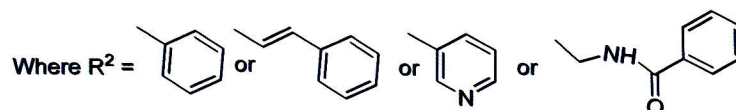
Medicinal Chemistry Research Division, Vaagdevi College of Pharmacy, Ramnagar, Hanamkonda 506 001, India

624 Design, synthesis and evaluation of thiazole based amides for their antitubercular and PknG inhibitory activity

A series of thiazole unit based amides having antitubercular and PknG inhibitory activities are reported

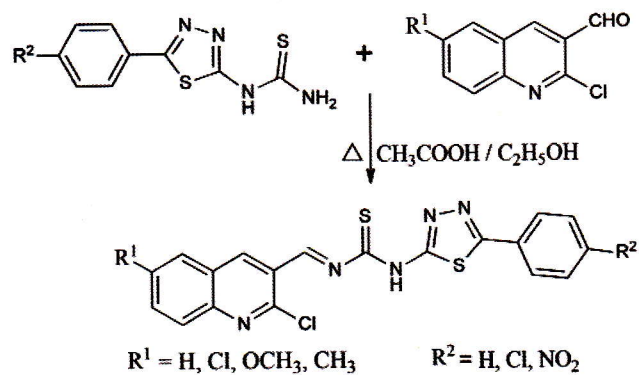


% PknG inhibition = 9.1-15.6



Anindra Sharma

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(A Constituent Unit of Lalit Narayan Mithila University, Darbhanga)

633 Synthesis and antimicrobial activities of thiazazole containing quinoline derivatives

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