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Sect. B: Organic Chemistry including Medicinal Chemistry

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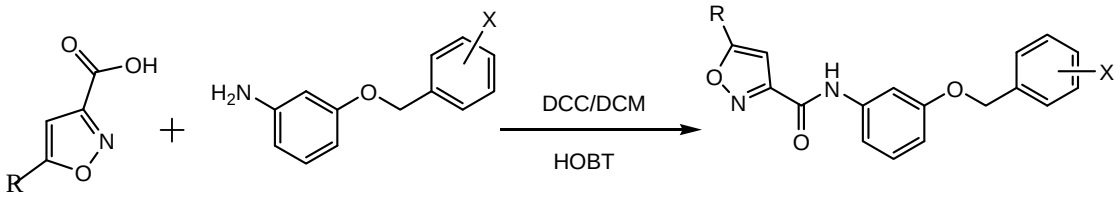
Papers

1 SCCB 1706 **Synthesis of novel 5-substituted isoxazole-3-carboxamide derivatives and cytotoxicity studies on lung cancer cell line**

A series of novel 5-substituted isoxazole-3-carboxamide derivatives **6a-l** have been prepared and screened against A549 lung cancer cell line.



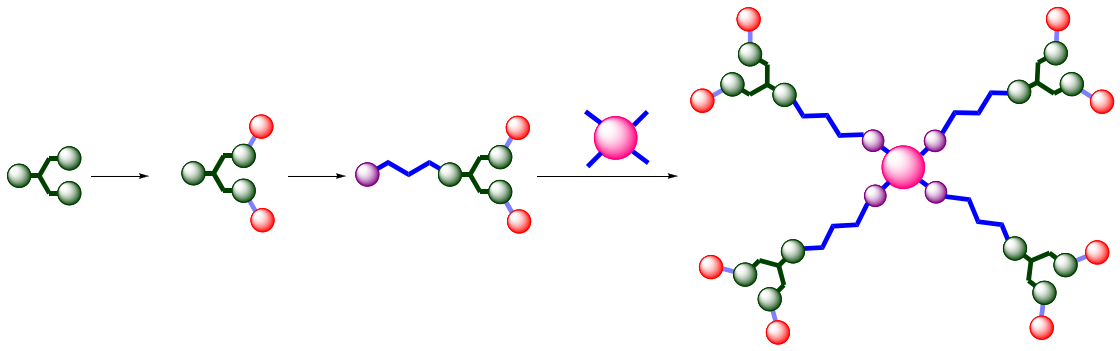
3 **5** **6**

B Veeraswamy, C Kurumurthy, G Santhosh Kumar, P Sambasiva Rao, Kavya Thelakkat, Srigiridhar Kotamraju & B Narsaiah*

Fluoroorganics Division, CSIR-Indian Institute of Chemical Technology, Tarnaka, Hyderabad 500 607, India

2 OC 1448 **A simple and convenient chemoenzymatic approach for the synthesis of valuable triacylglycerol-based dendritic building blocks**

An approach towards synthesis of triacylglycerol-based dendritic building blocks *via* a highly efficient chemoenzymatic route has been reported.

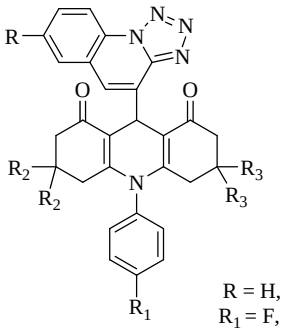


Shilpi Gupta, Sarah Jalal, Sumit Kumar, Rainer Haag & Sunil K Sharma*

Department of Chemistry, University of Delhi, Delhi 110 007, India

3 OC 1336 **A three component one-pot synthesis and biological studies of some new octahydroacridine-1,8-dione derivatives containing tetrazolo[1,5-*a*]quinoline moiety**

A series of octahydroacridine-1,8-diones have been synthesized in good yield *via* one-pot synthesis of corresponding tetrazolo[1,5-*a*]quinoline-4-carbaldehyde, 3-(4-fluorophenylamino)-5,5-dimethylcyclohex-2-enones and dimedone or cyclohexane-1,3-dione in acetic acid. All the synthesized compounds have been screened for antimicrobial and anti-tubercular activities.



5a-r

R = H, CH_3, OCH_3
R_1 = F, OCH_3
R_2 = H, CH_3
R_3 = H, CH_3

Sandip V Bhuva & Manish P Patel*

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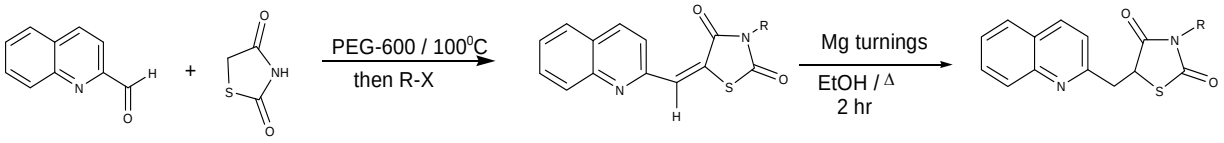
4 OC 1401 **PEG-600 mediated one-pot synthesis of quinolinylidinethiazolidine-2,4-diones as potential anti-hyperglycemic agents**



Sd Riyaz*, A Naidu & P K Dubey

Department of Chemistry, Jawaharlal Nehru Technological University, Hyderabad College of Engineering, Kukatpally, Hyderabad 500 085, India

5 OC 1384 **Synthesis, characterization, antimicrobial, insecticidal and anthelmintic screening of some new s-triazine derivatives of pyrazoline, pyrimidine, isoxazoline and isothiazoline moiety**

1-(4-(4,6-Bis(4'-chlorophenylamino)-1,3,5-triazin-2-ylamino)-phenyl)-3-(aryl substituted) prop-2-en-1-one **3** has been used as precursor to synthesize some new pyrimidine, pyrazoline, isoxazoline and isothiazoline derivatives. They have been evaluated for their antimicrobial, antifungal, insecticidal and anthelmintic efficacy.

Nidhi Gautam* & O P Chourasia

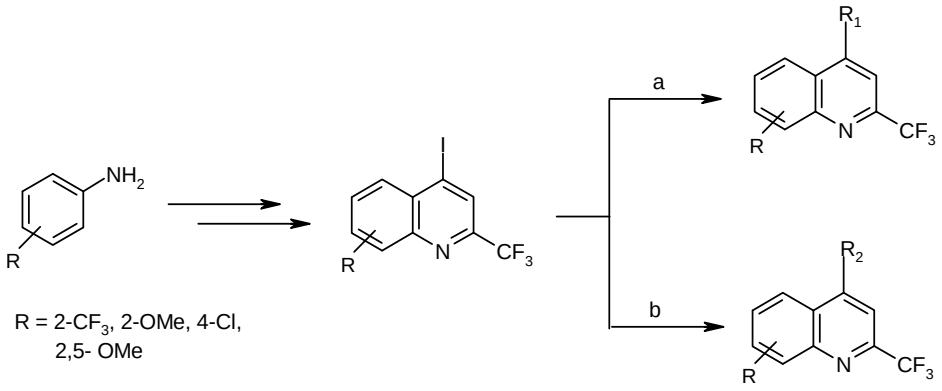
Department of Chemistry, Dr. H. S. Gour Central University, Sagar 470 003, India

Notes

6 SCCB 1614

Synthesis and cytotoxicity of new quinoline derivatives

New 2,8-bis(trifluoromethyl)-4-substituted quinolines have been synthesized from 4-haloquinoline following the Suzuki protocol and N-arylation.



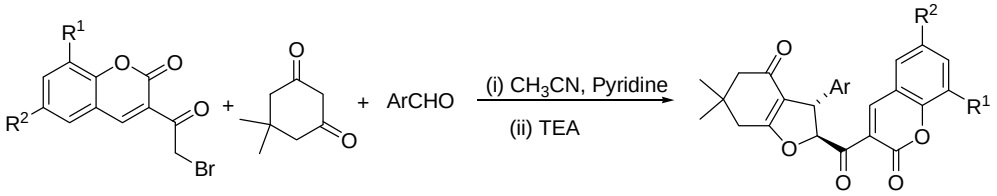
H M Meshram*, B Chennakesava Reddy, D Aravind Kumar, M Kalyan, P Ramesh, P Kavitha & J Venkateswara Rao

Organic Division-I, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, India

7 SCCB 1732

One-pot synthesis of coumarin substituted dihydrofurans

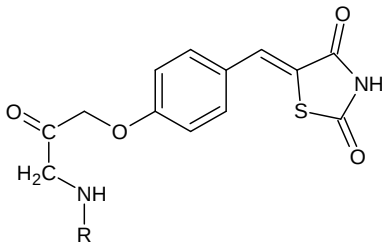
A sequential one-pot two-step tandem reaction for an efficient synthesis of 2,3-dihydrofurans substituted with 2*H*-benzopyrans has been developed. One-pot reaction of *in situ* formed benzopyran substituted pyridinium ylides with aromatic aldehydes and dimedone gives corresponding 2,3-dihydro furans in good yields.



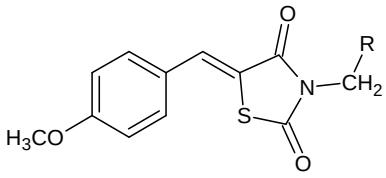
Venkata Sreenivasa Rao Chunduru & Rajeswar Rao Vedula*

Department of Chemistry, National Institute of Technology, Warangal 506 004, India

8 SCCB 1597 **Synthesis and evaluation of some novel 2,4-thiazolidinedione derivatives for antibacterial, antitubercular and antidiabetic activities**



1a-c



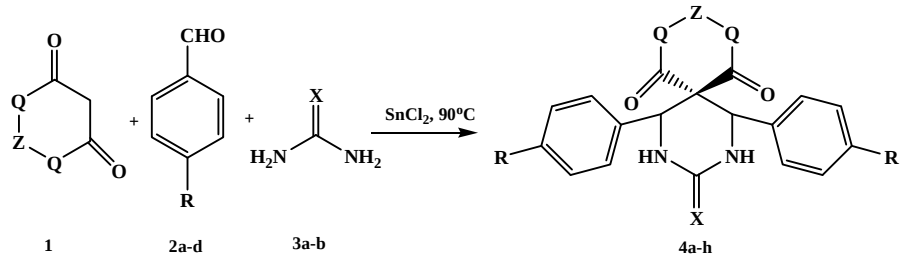
2a-c

Shashikant Pattan*, Manisha Kedar, Jayashri Pattan, Santosh Dengale, Manjusha Sanap, Utkarsha Gharate, Punam Shinde & Sushma Kadam

Department of Pharmaceutical Chemistry, Pravara Rural College of Pharmacy, Pravaranagar 413 736, India

9 SCCB 1712 **Facile synthesis of spiro-fused heterocyles by multi-component reactions under solvent-free conditions**

A facile synthesis of spiro-fused heterocycles by using three component cyclocondensations of aromatic aldehydes, Meldrum's acid and urea/thiourea in the presence of catalytic amount of stannous chloride dihydrate under solvent-free conditions is reported.



1 **2a-d** **3a-b** **4a-h**

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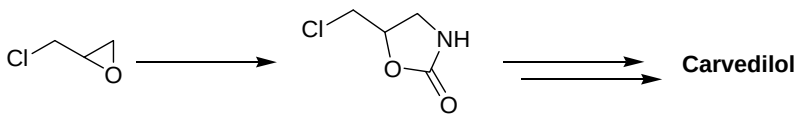
10 SCCB 1584 **Synthesis of racemic and chiral Carvedilol starting from corresponding 5-(chloromethyl)oxazolidin-2-one**

The synthesis of racemic Carvedilol has been achieved starting from 2-(chloromethyl) oxirane in a four-step sequence with 17.3% overall yield. This approach is useful for the preparation of pharmaceutically important moieties containing β-amino alcohols without formation of bis impurity.



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