

Indian Journal of Chemistry

Sect. B: Organic Chemistry including Medicinal Chemistry

VOL. 56B

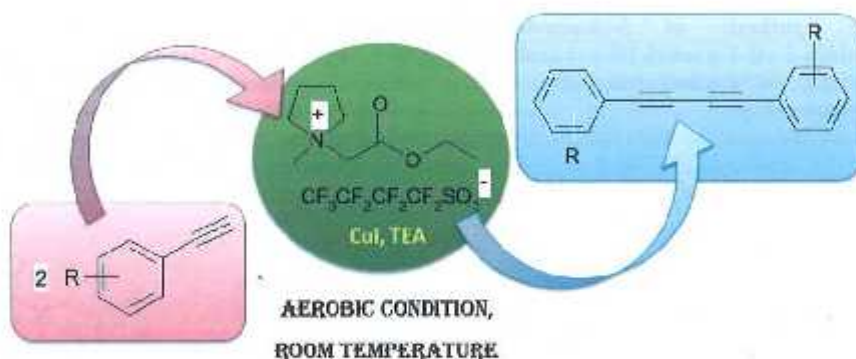
NUMBER 9

September 2017

CONTENTS

Papers

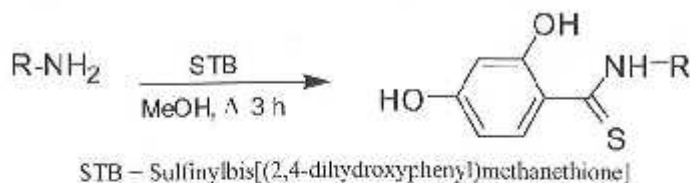
- 963 **Ester functionalized hydrophobic task specific ionic liquid for Glaser coupling** A new hydrophobic ester functionalized task specific ionic liquid has been synthesized and its application explored in the synthesis of conjugated 1,3-diyne through Glaser coupling of terminal alkynes. Terminal alkynes undergo oxidative-coupling smoothly in the presence of CuI-TEA catalytic system in hydrophobic ionic liquid under aerobic conditions to produce 1,3-diyne in excellent yields under mild conditions. The recovery and reusability of the catalyst is supported by the hydrophobic nature of the TSIL.



Jayavanti D Patil, Suyog N Korade, Sarika M Chinchkar & Dattaprasad M Pore*

Department of Chemistry, Shivaji University, Kolhapur 416 004, India

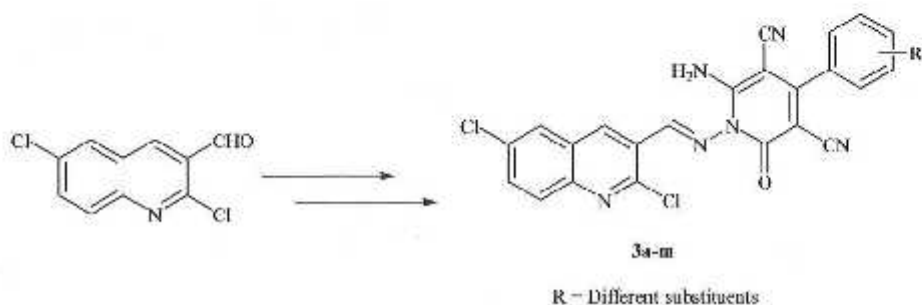
- 969 **In vitro biological evaluation of novel N-substituted 2,4-dihydroxythiobenzamides** Novel N-substituted 2,4-dihydroxythiobenzamides have been prepared and their antifungal and antiproliferative properties described.



Joanna Matyslak*, Andrzej Niewiadomy, Urszula Glaszcz, Jolanta Domańska & Joanna Wietrzyk

University of Life Sciences, Department of Chemistry, ul. Akademicka 15, Lublin, Poland

- 976 **Synthesis of a novel series of imines containing nitrogen heterocycles as promising antibacterial and antifungal agents** A series of novel 6-amino-1-((2,6-dichloroquinolin-3-yl)methyleneamino)-4-(aryl)-2-oxo-1,2-dihydropyridine-3,5-dicarbonitriles **3a-m** have been synthesized and assessed for their *in vitro* antimicrobial activity.



N C Desai*, J P Harsora, B Y Patel & K A Jadeja

Division of Medicinal Chemistry, Department of Chemistry, Mahatma Gandhi Campus, Maharaja Krishnakumarsinhji Bhavnagar University, Bhavnagar 364 002, India

- 984 **Facile synthesis of 3-(4-oxo-4H-pyrido[1,2-a]pyrimidin-3-yl)-1-phenyl-1H-pyrazole-4-carbaldehyde and its condensation with various active methylene groups** Vilsmeier-Haack formylation of 3-acetyl-4H-pyrido[1,2-a]pyrimidin-4-one **5a-b** gives the pyrazole aldehyde *i.e.*, 3-(4-oxo-4H-pyrido[1,2-a]pyrimidin-3-yl)-1-phenyl-1H-pyrazole-4-carbaldehyde **6a-b** which on condensation with various active methylene group containing compounds **7-10** gives the corresponding Knoevenagel products *i.e.*, **11a,b-14a,b** respectively.



P Venkateswarlu & P K Dubey*

Department of Chemistry, Jawaharlal Nehru Technological University Hyderabad, Kutatpally, Hyderabad 500 085, India

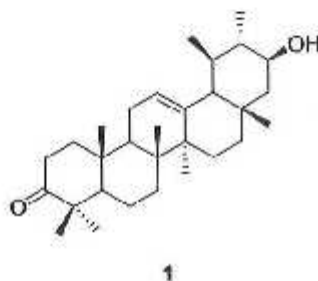
Notes

- 990 **Synthesis of galactosylated aspirin**

Xueqin Zhang & Gangliang Huang*

Active Carbohydrate Research Center, College of Chemistry, Chongqing Normal University, Chongqing 401331, China

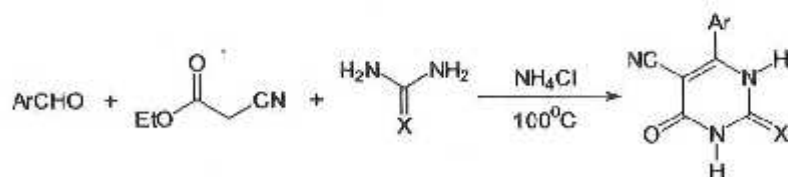
- 993 **Ursane-triterpenoid from *Phlebophyllum kunthianum*** From the *n*-butanol fraction of the ethanolic extract of the whole plant of *Phlebophyllum kunthianum*, one new ursane-triterpenoid, 21- β -hydroxyurs-12-en-3-one **1** together with one known compound, β -sitosterol-3-*O*- β -D-glucoside **2** have been isolated. The structure of the new compound **1** has been elucidated on the basis of detailed chemical and spectral analysis (including 2D-NMR). The compound **2** is reported for the first time from this plant.



D N Singh* & N Verma

Department of Chemistry, K. S. Saket P. G. College, Dr. Ram Manohar Lohia
Avadh University, Faizabad 224 001, India

- 997 **A simple and efficient one pot synthesis of 2,4-dioxypyrimidine carbonitrile and 4-oxo-2-thioxopyrimidine carbonitrile derivatives using ammonium chloride under solvent free conditions** Various substituted 4-oxo-2-thioxopyrimidine and 2,4-dioxypyrimidine derivatives have been synthesized by ternary condensation of ethyl cyanoacetate, aldehyde and thiourea/urea by using ammonium chloride. Structures of all the products are supported by their spectral data.



M R Gaware, J S Aher*, D D Lokhande, P J Tambade & A M Bhagare

Department of Chemistry, KTHM College, Nashik, India

Authors for correspondence are indicated by (*)