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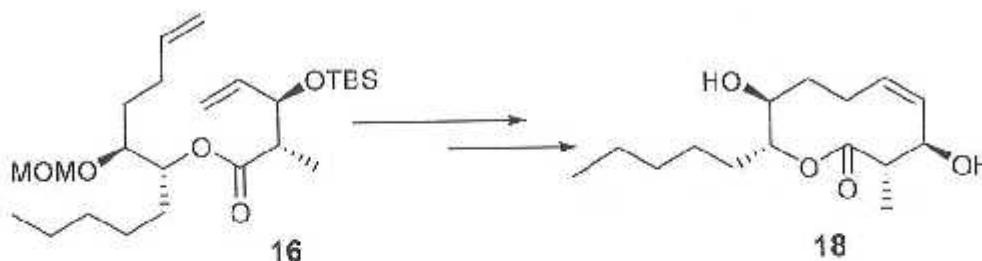
April 2017

## CONTENTS

### Papers

- 423 **Stereoselective approach for total synthesis of Z-isomer of cytospolide E**

Stereoselective total synthesis of new noranolide natural product cytospolide E **18** has been studied by employing Evans Aldol, Grignard and ring-closing metathesis (RCM) reactions. This study has accomplished the Z (*cis*) isomer of cytospolide E.

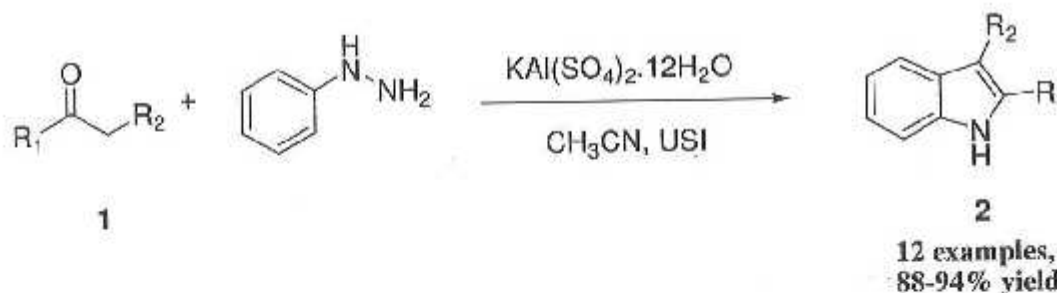


R Nageswara Rao & B China Raju\*

Natural Products Chemistry Division, CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, India

- 431 **Alum catalysed synthesis of tetrahydrocarbazoles and indoles under ultrasonication**

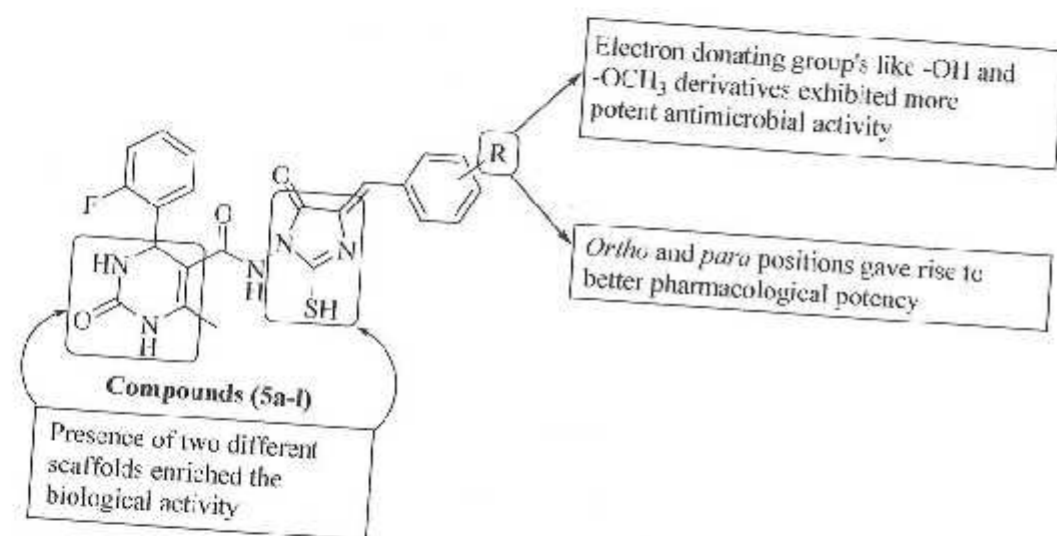
Tetrahydrocarbazoles and indoles have been prepared by the condensation of phenyl hydrazine with a variety of ketones under ultrasonication employing potash alum [KAl(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O] as an inexpensive, readily available and eco-benign catalyst.



Bhavana Sharma, Sheena Mahajan & Kamal K Kapoor\*

Department of Chemistry, University of Jammu, Jammu 180 006, India

- 438 **Synthesis and antimicrobial studies of 1,2,3,4-tetrahydropyrimidine bearing imidazole analogues** A series of *N*-(4-arylidene 2-mercapto-5-oxo-4,5-dihydro-1*H*-imidazol-1-yl)-4-(2-fluorophenyl)-6-methyl-2-oxo-1,2,3,4-tetrahydropyrimidine-5-carboxamides (**5a-l**) have been synthesized by multi-step reactions and characterized by standard spectral techniques. The synthesized compounds have been screened for their *in vitro* antimicrobial activity.



N C Desai\*, H V Vaghani, T J Karkar, B Y Patel & K A Judeja

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

- 447 ***In vitro* anti-inflammatory activity of a new allelochemical from the bark of *Pithecellobium dulce* (Roxb.) Benth.**

R N Yadava\* & Archana Chakravarty

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

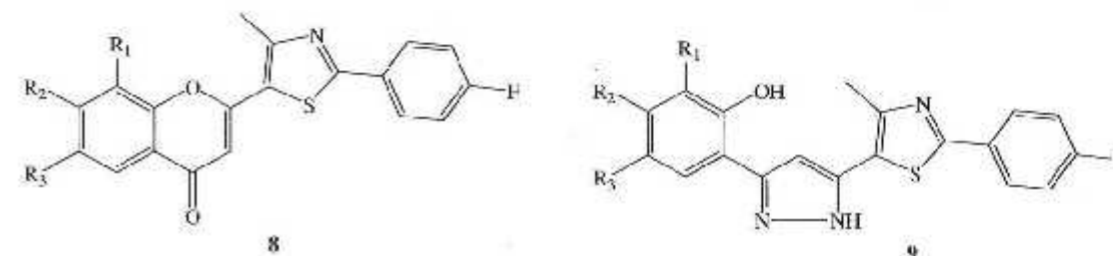
- 453 **Efficient microwave assisted synthesis and computational study of isoxazole Schiff base as an antibacterial agent**

Salman A Khan, Abdullah M Asiri & Kamlesh Sharma\*

Department of Applied Science, The NorthCap University, Sector 23A, Gurgaon 122 017, India

### Notes

- 458 **Synthesis and characterization of thiazole anchored fluorinated 2-heterylchromones and pyrazoles** Esterification of 2-(4-fluorophenyl)-4-methylthiazole-5-carboxylic acid **4** with 2-hydroxyacetophenones **5** yields compounds **6** which have been converted to  $\beta$ -diketones **7** by Baker-Venkataraman transformation. A series of 2-substituted chromones **8** have been obtained by acid catalysed intramolecular cyclization of  $\beta$ -diketones. Finally, the substituted pyrazoles **9** have been obtained from  $\beta$ -diketones **7**.



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