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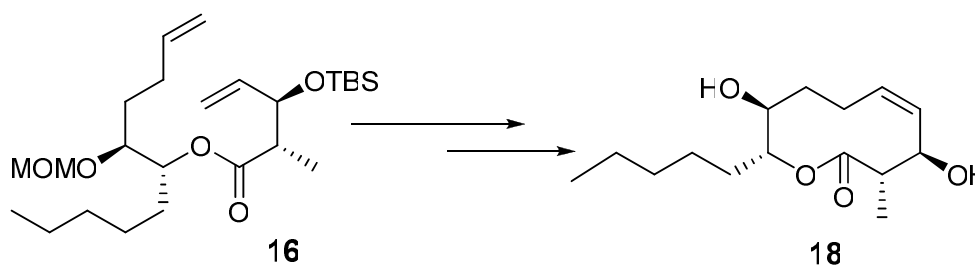
NUMBER 4

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### Papers

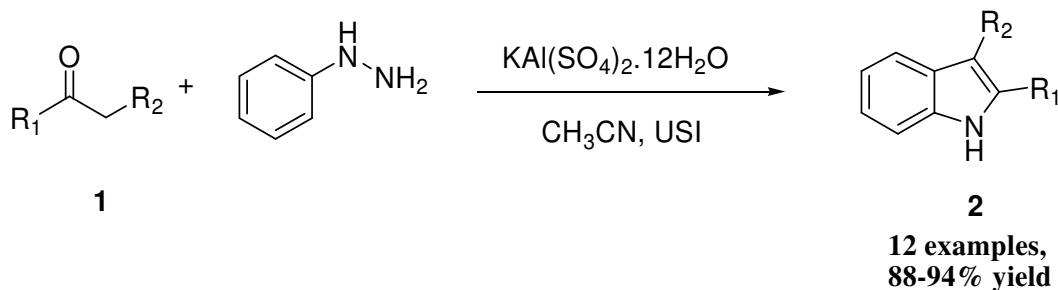
- 423 Stereoselective approach for total synthesis of Z-isomer of cytospolide E** Stereoselective total synthesis of new nonanolide natural product cytospolide E **18** has been studied by employing Evans Aldol, Grignard and ring-closing metathesis (RCM) reactions. This study has accomplished the Z (*cis*)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



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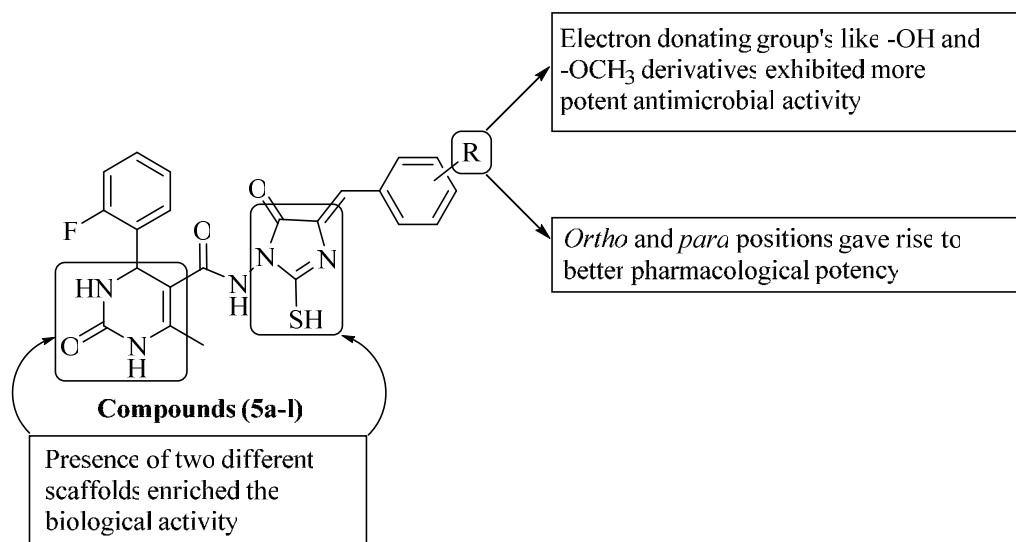
- 431 Alum catalysed synthesis of tetrahydrocarbazoles and indoles under ultrasonication** Tetrahydrocarbazoles and indoles have been prepared by the condensation of phenyl hydrazine with a variety of ketones under ultrasonication employing potash alum [KAl(SO<sub>4</sub>)<sub>2</sub>·12H<sub>2</sub>O]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



Bhavana Sharma, Sheena Mahajan & Kamal K Kapoor\*

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- 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 Jadeja**

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\***

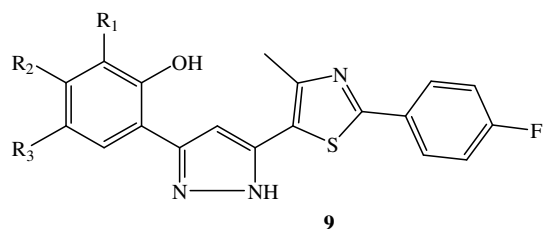
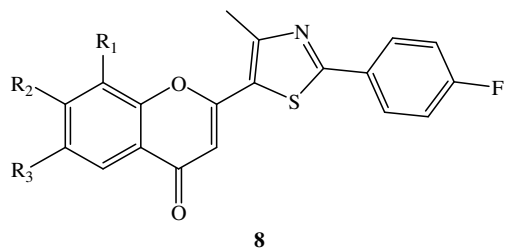
Department of Applied Science, The NorthCap University, Sector 23A, Gurgaon 122 017, India

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**Notes**

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- 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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