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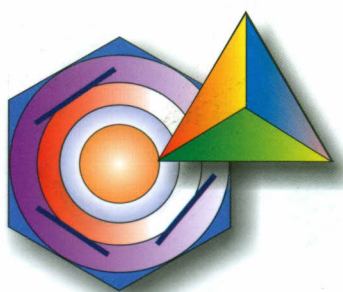
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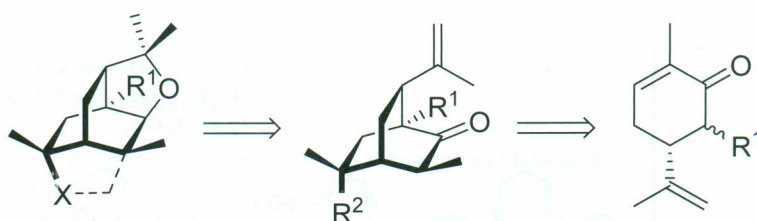
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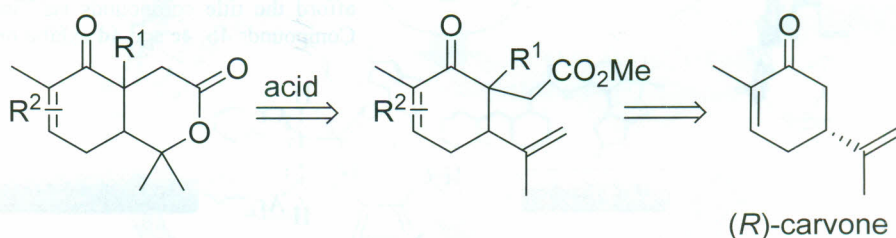


Adusumilli Srikrishna & Gedu Satyanarayana*

Department of Chemistry, Indian Institute of Technology, Hyderabad, Main Road, Near NH-65, Kandi 502 285, Dist. Sangareddy, India

- 362 Facile enantiospecific syntheses of oxabicyclo[4.4.0]decene-diones from carvone *via* mild Lewis acid mediated lactonizations

An efficient and concise enantiospecific syntheses of oxabicyclo[4.4.0]decene-diones has been accomplished starting from carvone. This strategy is a chiron based approach by making use of mild Lewis acid mediated intramolecular lactonization as key step for the formation of fused bicyclic lactones. Notably, these bicyclic lactones constitute bicyclic carbon framework of diterpene natural products.

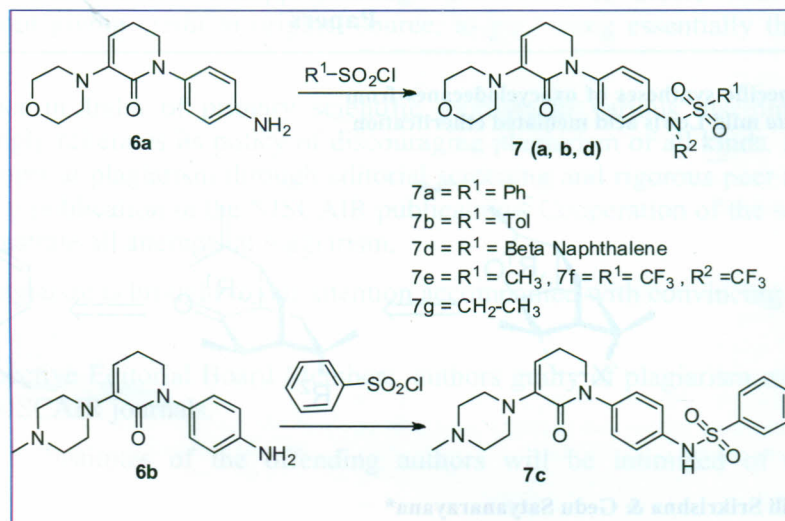


Adusumilli Srikrishna & Gedu Satyanarayana*

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- 371 **Synthesis of new 4-substitued-1-(4-amino phenyl)-5,6-dihydropyridine-2(1H)-one sulfonamide conjugates and evaluation of their anti-microbial activity**

A new series of substituted sulfonyloxopyridine conjugates are reported for first time. The antibacterial and antifungal activities of the synthesized compounds have been evaluated against known bacterial strains. The obtained data indicated that in particular, compound **7a**, i.e. N-(4-(3-(morpholin-2-oxo-5,6-dihydropyridin-1(2H)-yl)phenyl)-benzenesulfonamide exhibited activity comparable to the well known antibacterial agents. The previously reported expensive and delicate processes for synthesis of 1-(4-nitrophenyl)piperidine-2-one **3** have also been replaced with novel and efficient processes *via* lactam ring activation.

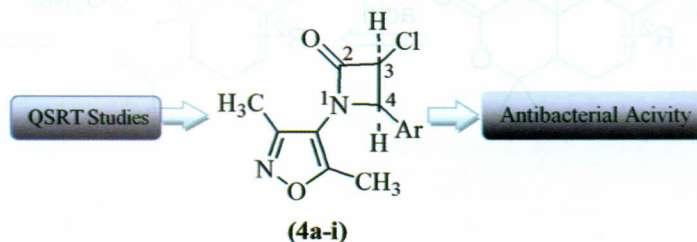


Tonmoy Chitta Das, Syed Aziz Imam Quadri & Mazahar Farooqui*

Dr. Rafiq Zakaria College for Women, Aurangabad 431 001, India

- 381 **Synthesis, QSRT studies and antibacterial activity of 4-aryl-3-chloro-1-(3,5-dimethyl-isoxazol-4-yl)-azetidin-2-ones**

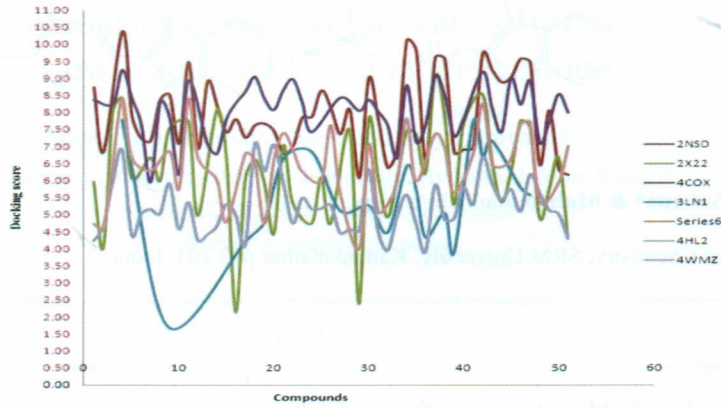
A new series of 4-aryl-3-chloro-1-(3,5-dimethyl-isoxazol-4-yl)-azetidin-2-ones **4a-i** have been prepared from 4-amino-3,5-dimethylisoxazole **1**. Compound **1** on treatment with aromatic aldehydes **2a-i** furnishes the Schiff bases **3a-i**, which are then reacted with chloroacetyl chloride in presence of triethyl amine to afford the title compounds *viz.*, isoxazolyl azetidin-2-ones **4a-i**. Compounds **4b**, **4c** and **4d** exhibit promising antibacterial activity.



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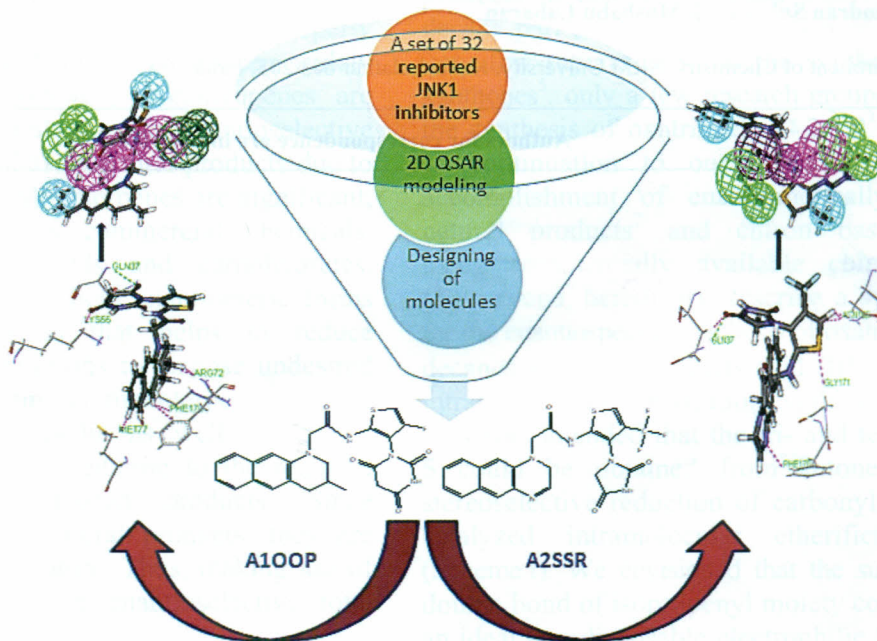
387 *In silico* study for the prediction of multiple pharmacological activities of novel hydrazone derivatives



Sachin H Rohane* & Ashlesha G Makwana

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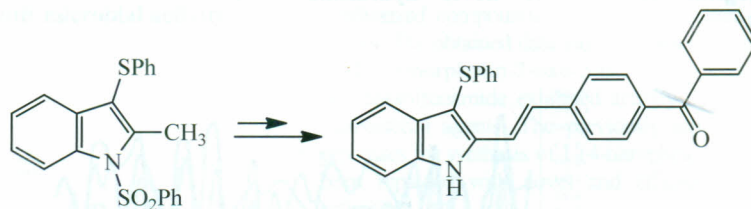
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Ashima Nagpal* & Sarvesh Paliwal

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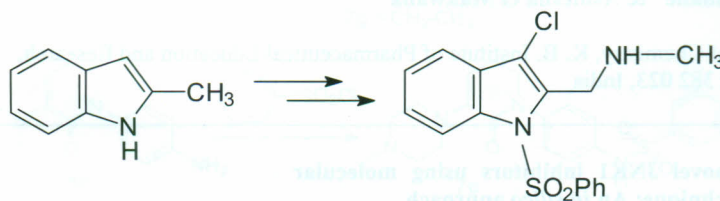


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Notes

420 Synthesis of (3-chloro-1-phenylsufonylindol-2-ylmethyl) methylamine



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