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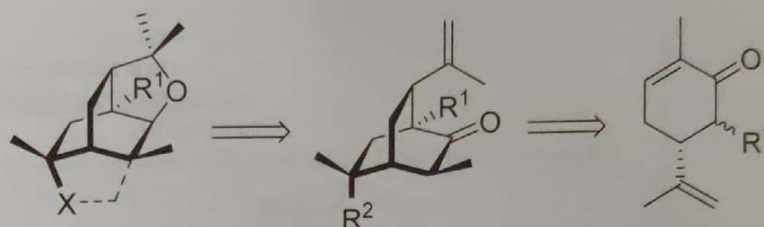
NUMBER 3

March 2019

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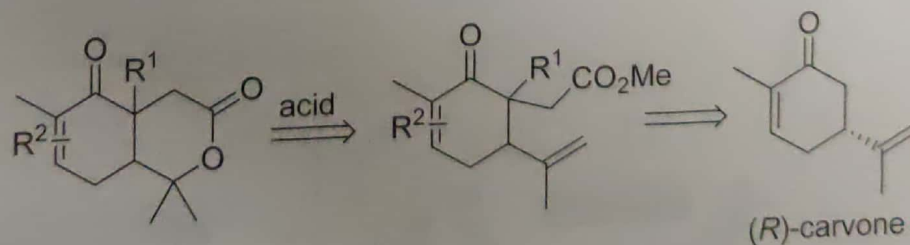


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- 362 Facile enantiospecific syntheses of oxabicyclo-[4.4.0]decene-diones from carvone *via* mild Lewis acid mediated lactonizations

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.



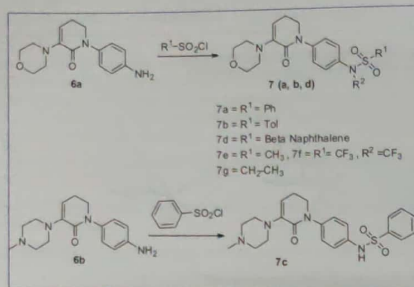
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371 Synthesis of new 4-substituted-1-(4-amino phenyl)-5,6-dihydropyridine-2(1H)-one sulfonamide conjugates and evaluation of their anti-microbial activity

A new series of substituted sulfonyloxypyridine 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.

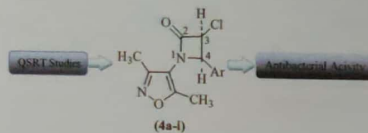


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381 Synthesis, QSRT studies and antibacterial activity of 4-aryl-3-chloro-1-(3,5-dimethyl-isoxazol-4-yl)-azetidin-2-ones

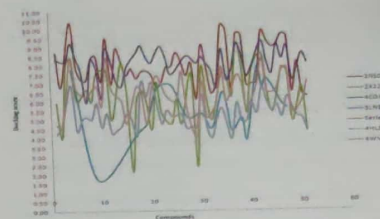
A new series of 4-aryl-3-chloro-1-(3,5-dimethyl-isoxazol-4-yl)-azetidin-2-ones 4a-4 have been prepared from 4-amino-3,5-dimethylisoxazole 1. Compound 1 on treatment with aromatic aldehydes 2a-4 furnishes the Schiff bases 3a-4, which are then reacted with chloroacetyl chloride in presence of triethyl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



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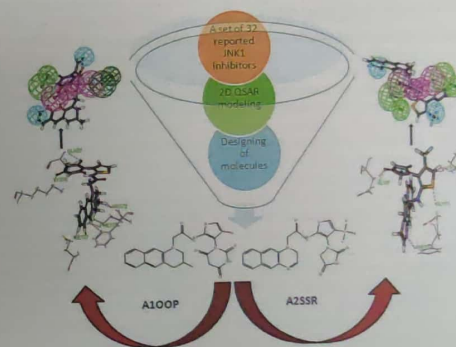
387 *In silico* study for the prediction of multiple pharmacological activities of novel hydrazone derivatives



Sachin H Rohane\* & Ashlesha G Makwana

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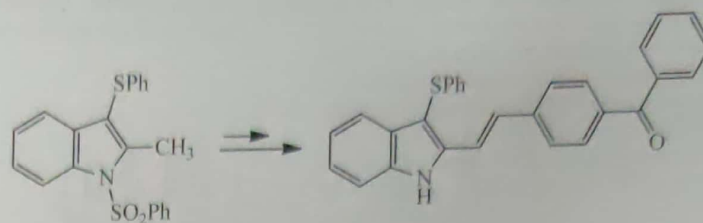
403 Design of novel JNK1 inhibitors using molecular modeling technique: An *in silico* approach



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## 416 Synthesis of a novel 2-vinyl indole



Harindran Suhana\* & Muhammad Aliyu Idris

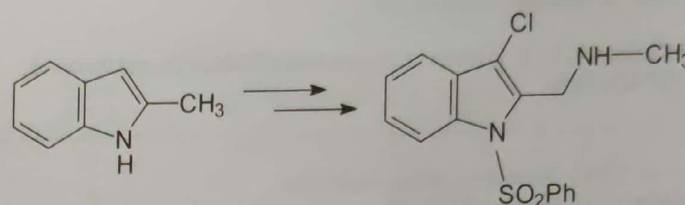
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**Notes**

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



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