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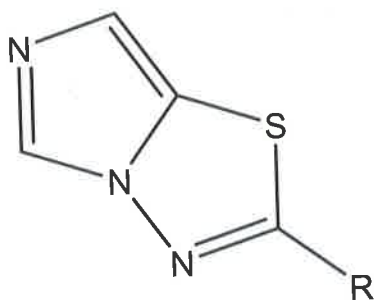
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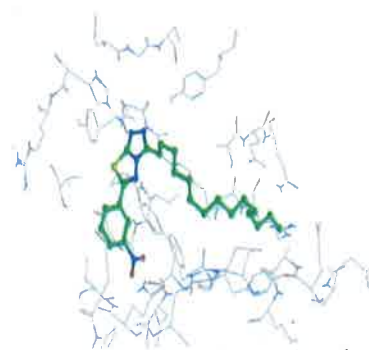
CONTENTS

Papers

- 671 **A new class of human fatty acid synthase inhibitors: Synthesis and their anticancer evaluation** Various triazolo thiadiazoles substituted stearic/palmitic acid analogues have been synthesized and the *in silico* docking and cytotoxicity studies have been carried out.



R-Stearic/palmitic acid

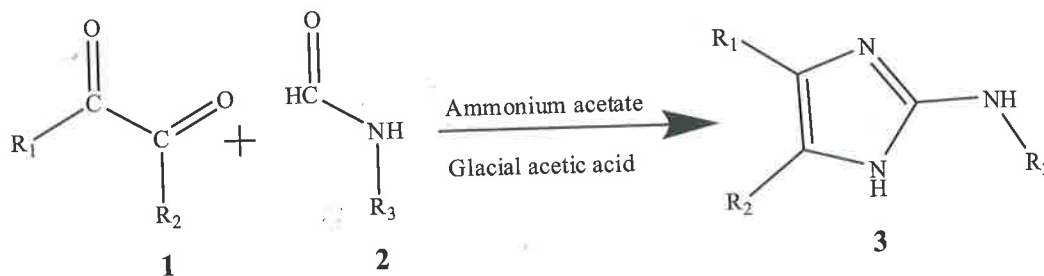


Docking pose of synthesized analogue

S Jubie*, B Bincy, A Jameera Begam, W Ashish, R Kalirajan & Md Afzal Azam

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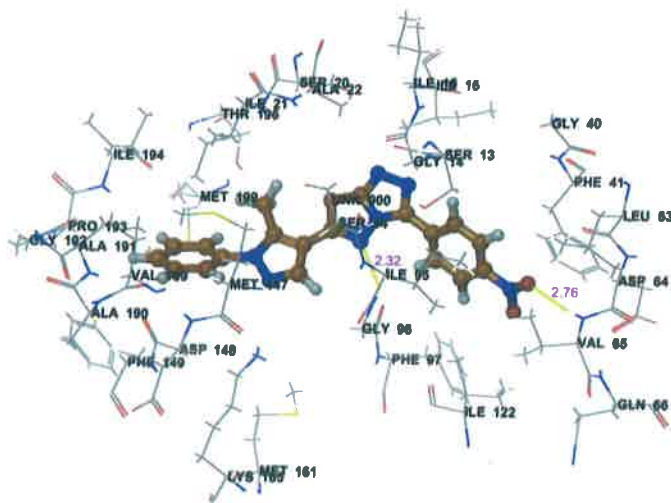
- 679 **Synthesis and antimicrobial study of 2-amino imidazole derivatives** A novel series of substituted 2-amino imidazole derivatives have been synthesized by conventional method from various dicarbonyl compounds with substituted N-phenyl amides in presence of ammonium acetate and glacial acetic acid under reflux conditions with good yields.



Sarita Gupta, Purnima Verma & Virendra Singh*

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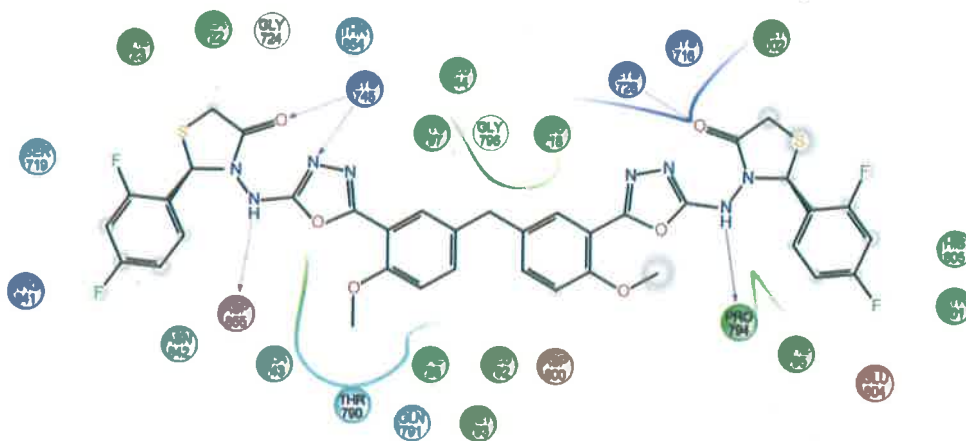
- 687 **Synthesis, biological evaluation and docking studies of a new series of tris-heterocycles containing pyrazole, triazole and oxadiazole** A new series of tris-heterocycles, 3-aryl/hetaryl-6-(5-methyl-1-phenyl-1*H*-pyrazol-4-yl)-[1,2,4]triazolo [3,4-*b*][1,3,4]oxadiazoles **7a-j** have been synthesized, characterized and evaluated for their biological activity. Most of the newly synthesized compounds are also shown to have good antioxidant properties.



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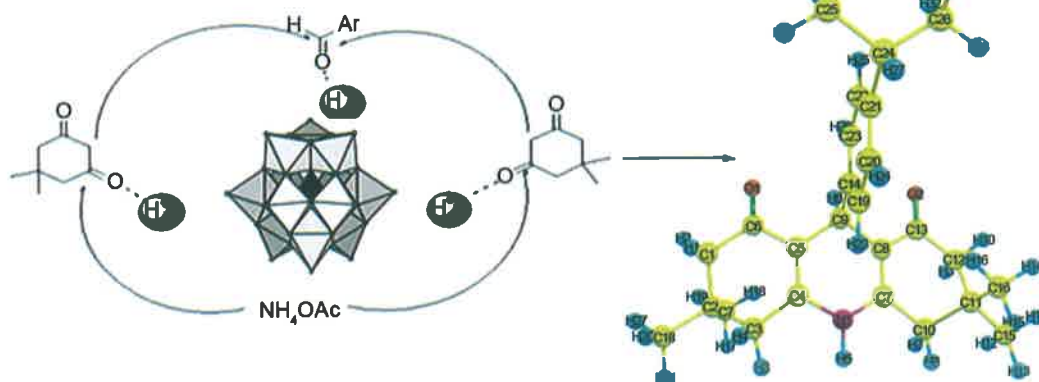
- 700 **Synthesis of novel bis-(1,3,4-oxadiazol-2-ylamino)-2-aryl-1,3-thiazolan-4-ones as antimicrobial, nematocidal and anticancer agents** A series of novel bis-heterocycles, 3-(5-[2-methoxy-5-(4-methoxy-3-5-[(4-oxo-2-(aryl/hetaryl)-1,3-thiazolan-3-yl)amino]-1,3,4-oxadiazol-2-ylbenzyl)phenyl]-1,3,4-oxadiazol-2-ylamino)-2-(aryl/hetaryl)-1,3-thiazolan-4-ones have been synthesized, characterized by physicochemical and spectral means and evaluated for their biological activity.



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- 715 **Catalytic performance of Preyssler heteropolyacids and synthesis, experimental, theoretical characterizations, fluorescence properties of 1,8-dioxodecahydroacridine derivative**



Zahra Baradaran-Sirjani, Mina Roshani, Maryam Khashi* & S Ali Beyramabadi

Department of Chemistry, Mashhad Branch, Islamic Azad University, Mashhad, Iran

- 722 **D-Tryptophan methyl ester as an effective reagent for the preparation of optically active (-)-gossypol** D-Tryptophan methyl ester has effectively been used for the resolution of racemic gossypol *via* a two-step procedure. In the first step, the reaction of racemic gossypol 1 with D-tryptophan methyl ester gives the individual diastereoisomeric gossypol adducts 3 and 4 quantitatively, which can be easily separated from each other by using only filtration or evaporation of the mother liquor. In the second step, the acid hydrolysis of the separated adducts affords the desired S-(+)-enantiomer 5 and R(-)-enantiomer 6, respectively, in high yields and in high enantiomeric excess.

Trinh Thi Nhung, Nguyen Thi Thanh, Vu Dinh Tien, Luu Duc Huy & Tran Khac Vu*

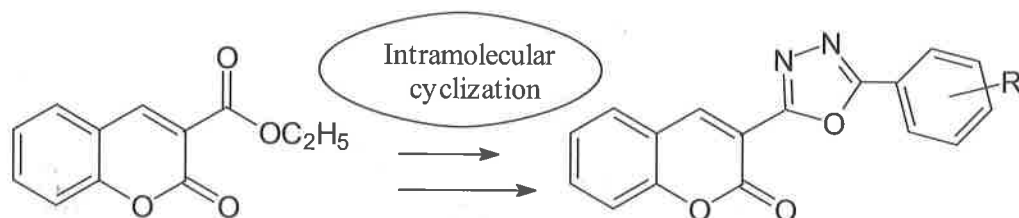
School of Chemical Engineering, Hanoi University of Science and Technology,
No 1 Dai Co Viet, Hai Ba Trung, Hanoi, Vietnam

- 727 **Design, synthesis, and structure-activity relationship studies of novel diaryl ether amides as potential antitumor agents**

Man-Yi Zheng, Zhi-Ning Huang, Shao-Mei Yang, Han-Liang, Lu-Xu, Bao-Rui Wang, Li-Juan Wang,
Hai-Li Wang, Shan-Hua Li & Fu-Nan Li*

Department of Medicinal Chemistry, School of Pharmaceutical Sciences,
Xiamen University, Xiamen, P. R. China

- 737 **Synthesis of 3-(5-phenyl-1,3,4-oxadiazol-2-yl)-2H-chromen-2-ones as anticonvulsant agents** A simple and efficient synthesis of coumarinyl oxadiazoles is achieved by oxidative intramolecular cyclization. Coumarinyl Schiff base is mixed with FeCl_3 dissolved in glacial acetic acid and allowed to proceed via oxidative intramolecular cyclization. This results in formation of targeted compounds. All the compounds show prominent anticonvulsant activity in both MES and PTZ models.



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