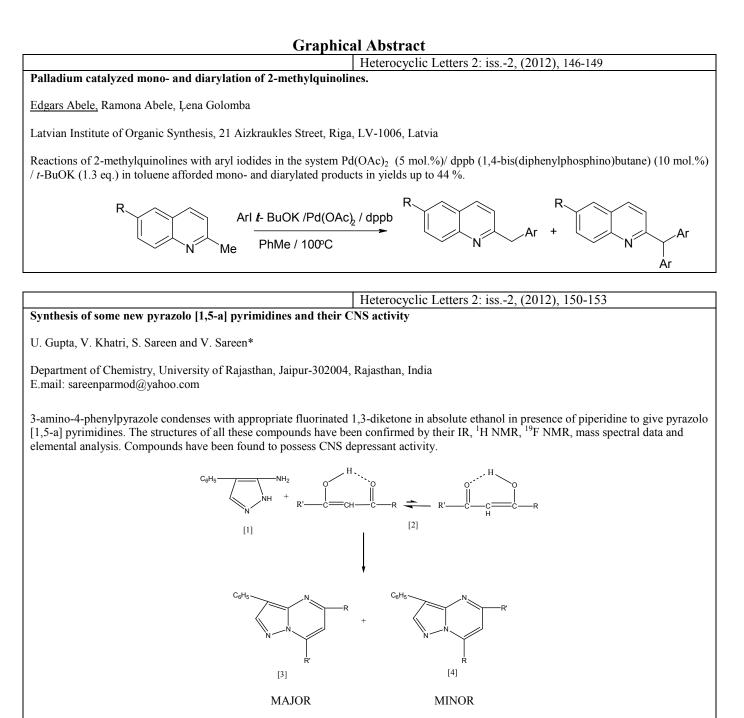
HL http://heteroletters.org

ISSN: 2231 – 3087(print) / 2230 – 9632 (Online) Vol. 2: (2), 2012, 139-144

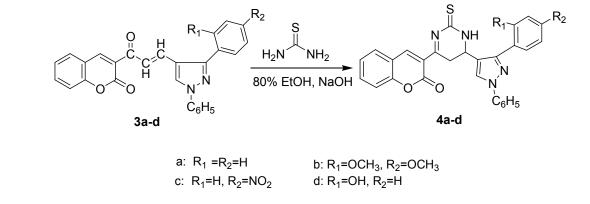


	Heterocyclic Letters 2: iss2, (2012), 154-161
Synthesis and Biological Activities of 3-{6-[3-(substituted pheny	l)-1-phenyl-1H-pyrazol-4-yl]-2-thioxo-1,2,5,6-tetrahydropyrimidin-4-
yl}-2H-chromen-2-ones	

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A series of $3-\{6-[3-(substituted phenyl)-1-phenyl-1H-pyrazol-4-yl]-2-thioxo-1,2,5,6-tetrahydropyrimidin-4-yl\}-2H-chromen-2-ones (4a-d) have been prepared by cyclisation of chalcones (3a-d) with thiourea. The structures of these newly synthesized compounds have been confirmed on the basis of elemental analyses and spectral studies. The newly synthesized compounds have been screened for their antimicrobial and antioxidant activities.$



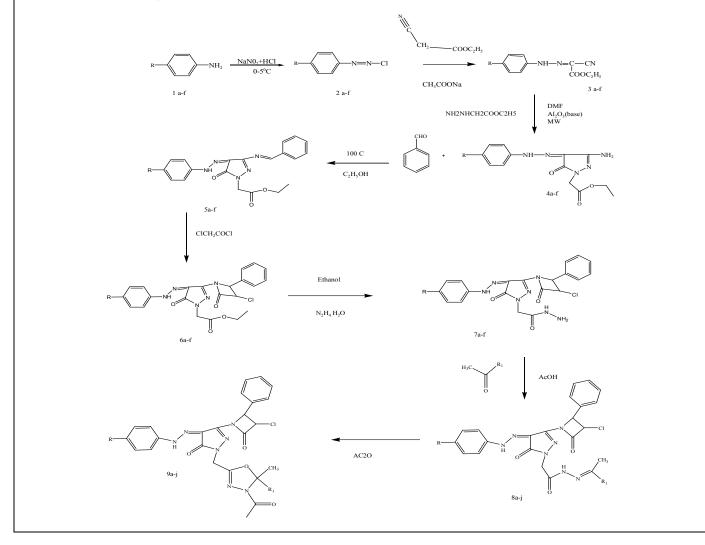
 Heterocyclic Letters 2: iss.-2, (2012), 168-173

 Synthesis (Z)-3-(3-chloro-2-oxo-4-phenyl azetidin-1-yl)-4-(2`-(4`-substituted phenyl) hydrazono)-1-((5-thioxo-4,5-dihydro-1,3,4-oxadiazol-2-yl)methyl)-1H-pyrazol-5(4H)-one derivatives.

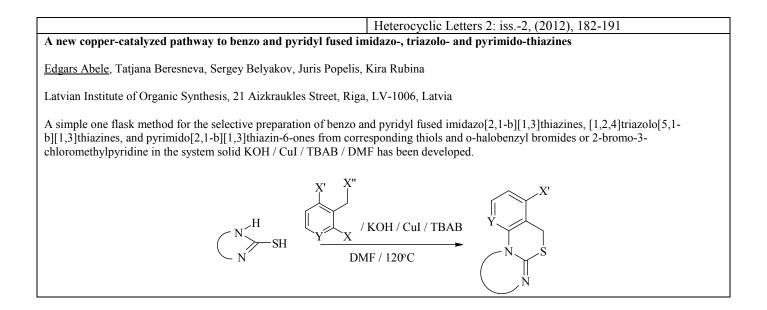
*Nagaraju G¹, Kishore Kumar k¹, Jayaveera K.N¹ and Ravindranath L.K².

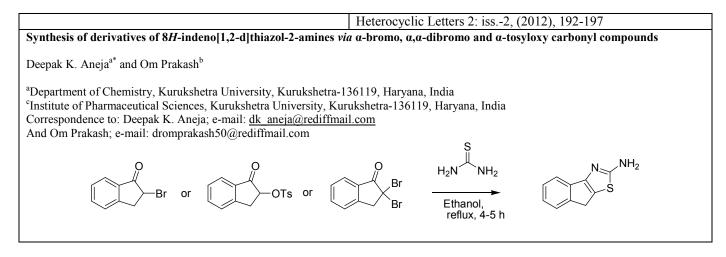
¹Department of Chemistry, J.N.T.University, Anantapur, Andhrapradesh, India ²Department of Chemistry, S.K.University, Anantapur, Andhrapradesh, India E-mail: <u>nagarajuchemg@gmail.com</u>

In present investigation, we have synthesised the Substituted 1, 3, 4-Oxadiazoles with oxophenylazetidine and pyrazoline ring systems to enhance the required biological activity. We have synthesised the required biologically active molecules by easily ongoing, cost effective, easily reproducible and feasible synthetic routs. Innovate synthetically most important and active molecules towards targeted diagnostic diseases and exhibit antibacterial, anticonvulsant, anticancer activities. The structures of all these compounds have been confirmed by IR, ¹HNMR, and elemental analysis.



Heterocyclic Letters 2: iss2, (2012), 174-180	
Synthesis, Characterization And Biocidal Activity Of Novel Halogenated - 4-[(Substituted-Benzothiazol-2-Yl) Hydrazono]-2- (Substituted-Phenyl)-5-Methyl /Ethoxy -2,4-Dihydro-Pyrazol-3-One Derivatives	
V. Khatri, K. Sharma, V. Sareen, D. Shinde and S. Sareen	
Department of Chemistry, University of Rajasthan, Jaipur-302004, Rajasthan Email : <u>sareen_s297@vahoo.com</u>	
Some new 4-[(substituted-benzothiazol-2-yl)hydrazono]-2-(substituted-phenyl)-5- methyl/ethoxy-2,4-dihydro-pyrazol-3-one(4) have been synthesized by reacting substituted 2-amino benzothiazol (1) with acetoacetic ester and malonic ester (2). 2-[(substituted-benzothiazol-2-yl)hydrazono]-3-oxo-butyric acid ethyl ester and 2-[(substituted-benzothiazol-2- yl)hydrazono]- malonic acid diethyl ester (3) react with different hydrazines to give the title compounds(4)and evaluated for antifungal and insecticidal activities.	





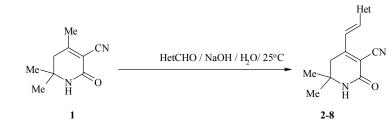
Heterocyclic Letters 2: iss.-2, (2012), 198-205

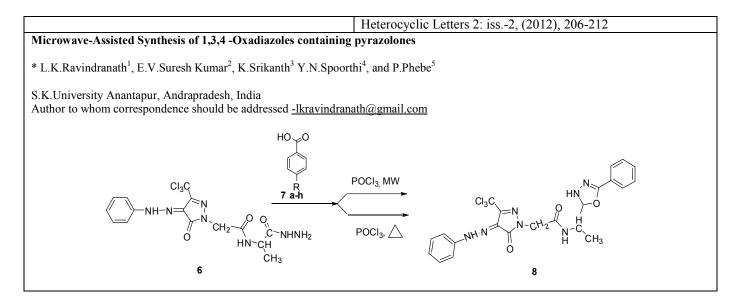
Synthesis and cytotoxicity of 4-[(E)-hetaryl-vinyl]-6,6-dimethyl-2-oxo-1,2,5,6-tetrahydro-pyridine-3-nitriles

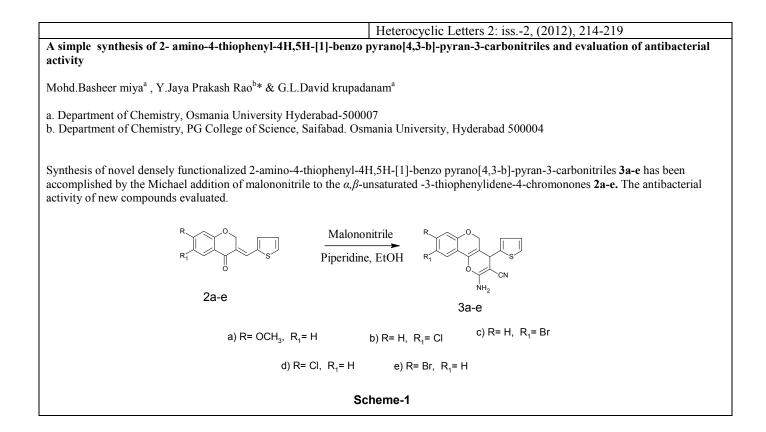
Daina Jansone, Juris Popelis, Elina Jaschenko, Anita Gulbe, Irina Shestakova, Mendel Fleisher, Sergey Belyakov, Edgars Abele

Latvian Institute of Organic Synthesis, 21 Aizkraukles Street, Riga, LV-1006, Latvia,

A detailed investigation of condensation of 4,6,6-trimethyl-2-oxo-1,2,3,4-tetrahydropyridine-3-nitrile with heteroaromatic aldehydes in the presence of catalytic amounts of NaOH in EtOH were presented. 4-[(E)-Hetaryl-vinyl]-6,6-dimethyl-2-oxo-1,2,5,6-tetrahydro-pyridine-3-nitriles were isolated in 50-97 % yields. The cytotoxicity of studied compounds towards HT-1080 (hyman fibrosarcoma), MG22A (mouse hepatoma) and 3T3 9 (mouse embryonic fibroblasts) were presented. 4-[(E)-2-(6-Bromo-2-pyridyl)-vinyl]-6,6-dimethyl-2-oxo-1,2,5,6-tetrahydro-pyridine-3-nitrile exhibit high activity against MG-22A cancer cell line.







REVIEWS

	Heterocyclic Letters 2: iss2, (2012), 220-235	
Recent Developments in Fluorination Chemistry of DAST with Special Reference to Alcohols		
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² Deptt. of Chemistry, UDML College of Engineering, Jaipur-302	2 028, India	
*e-mail: <u>at.chem@gmail.com</u>		
Dedicated to late Prof. V. N. Pathak		
fluorine containing group causes notable changes in the physical significant method to introduce fluorine into organic compounds Diethylaminosulfur trifluoride (DAST), Bis(2-methoxyethyl)ami reagents. By the use of these reagents, organic compounds that c their corresponding fluorinated analogues by the introduction of	ed both medicinal and agrochemical fields. The presence of fluorine or a and chemical properties of ordinary organic compounds. The most is the nucleophilic replacement of oxygen with fluorine. inosulfur trifluoride (BAST) or deoxofluor are the popular fluorinating ontain oxygen in hydroxyl and carbonyl groups are readily converted into one or two fluorine atoms respectively. Our interest in applying various into a large variety of organic compounds encouraged us to summarize the	