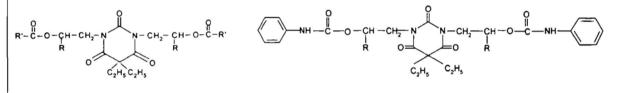
Graphical Abstract

Esters And Urethanes With Pyrimidine Ring

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Hydroxyalkyl derivatives of 5,5-diethylbarbituric acid obtained from the acid and oxiranes or alkylene carbonates react with carboxylic acid or isocyanates to give esters and urethanes with pirymidine ring. Some of those compounds can serve useful monomers for synthesis of polyacrylates, crosslinking agents or plastificators of high thermal resistance due to the presence of pyrimidine rings.



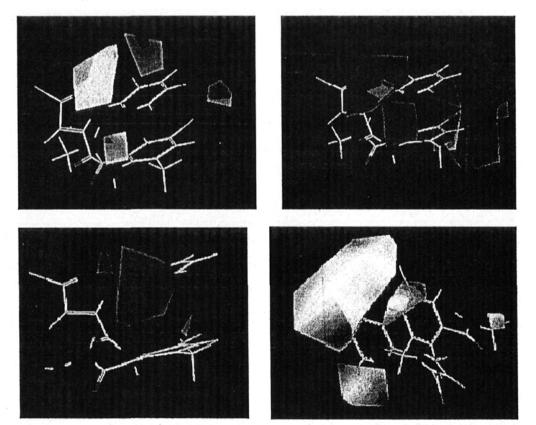
Heterocycl. Commun. 1 (2009) 17-22

Heterocycl. Commun.1 (2009) 9-16

Quantitive-Strucutre Activity Relationship(QSAR) study of a New Heterocyclic Insecticides Using CoMFA and CoMSIA

Wei-Li DONG, Xing-Hai Liu, Yi MA, Zheng-Ming Ll

State-Key Laboratory of Elemento-Organic Chemistry, National Pesticide Engineering Research Center, Institute of Elemento-Organic Chemistry, Nankai University, Tianjin 300071, China



Novel heterocyclic insecticidal compounds were selected and the 3D-QSAR were studied for further design and synthesis new bioactive heterocyclic compounds.

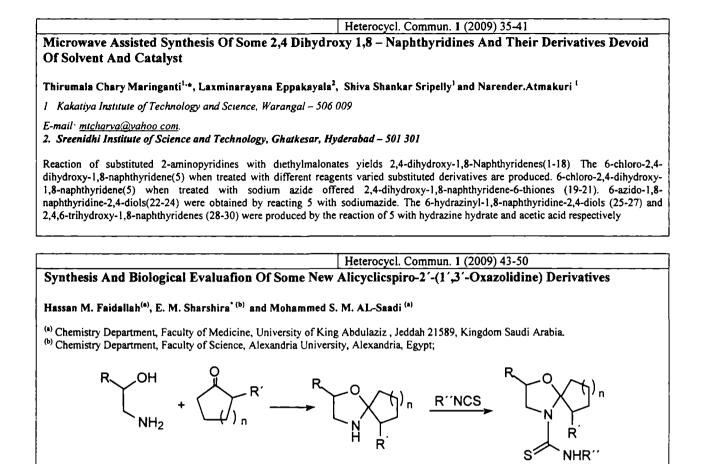
Preparation And Cha	aracterization (eterocycl. Commun. 1 (2 .nd Phospha Sugars A		nti-Canco	er Ag	ents
	addali", Satoki Na		alluru Krishna Reddy ^a , H ai ^a , Takuya Suyama ^a , Jun				
Department of Internal M	edicine, Hamamats	u University School of N	amamatsu 432-8561, Japan Medicine, Hamamatsu 431-3 chnology, Numazu 410-850	3192, Japan			
Diastereomers of 2-bromo-	3-hvdroxy-, 2.3-ep	oxy- and 2 3-dibromo-1	nhenvinhoonholone derivat		thesized fro	om 1-p	henvl-2.
ualified by MTT in vitro r	r 3-methyl-1-pheny nethod to find that	l-2-phospholene 1-oxide	e. The prepared phospholan anti-cancer activity for leuk	es or phospha	sugars wer	e biolo	gically
	r 3-methyl-1-pheny nethod to find that	l-2-phospholene 1-oxide	e. The prepared phospholan	es or phospha	sugars wer	re biolo (i) wide	spectra

Heterocycl. Commun. 1 (2009) 31-34 Synthesis of New Tetracyclic Fused Imidazole Derivatives

M. Bakavoli^{a, c, *}, F. Pirouzi^a, M. Nikpour^b F. Bamoharram^a and A. Davoodnia^a

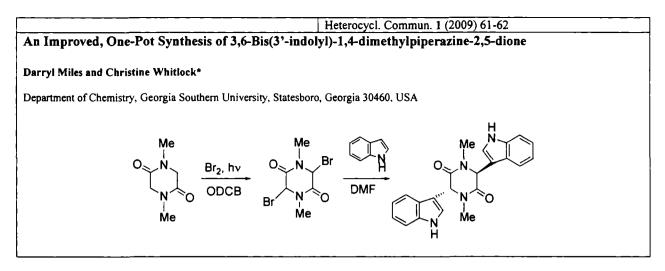
a: Department of Chemistry, School of Sciences, Islamic Azad University, Mashhad Branch, Mashhad, Iran. b: Department of Chemistry, School of Sciences, Islamic Azad University, Ahvaz Branch, Ahvaz 61349-68875, Iran. c: Department of Chemistry, School of Sciences, Ferdowsi University, Mashhad 91775-1436, Iran. email:mbakavoli@yahoo.com

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Heterocycl. Commun. 1 (2009) 51-55 Ultrasound Promoted Cu(Clo₄)₂ Catalyzed Rapid Synthesis Of Substituted 1,2,3,4- Tetrahydropyrimidine-2-Ones & Hantzsch 1,4-Dihydropyridines In Dry Media Saurabh Puri, Anupama Parmar, Balbir Kaur, Harish Kumar* *Department of Chemistry, Sant Longowal Institute of Engineering & Technology, Longowal ¹Department of Chemistry, Punjabi University, Patiala-147 002 (Pb.), India Copper perchlorate supported on bentonite clay as catalyst at room temperature gives 6-methyl-4-substituted-phenyl-2-oxo(thioxo)-1,2,3,4tetrahydropyrimidin-5-carboxylic acid ethyl esters & diethyl 2,6-dimethyl-4-substitutedphenyl-1,4-dihydropyridine-3,5-dicarboxylate in solvent-less media under ultrasonic irradiation NH-CODE R₁ [X = O or S] COOE Copper Perchlorate(Cat.) сн. HN Ultrasonic Irradiation 20-40 mm, x2 CH₃ н (NH₄)₂CO₃ Copper Perchlorate(Cal) R1 Ultrasony: Irradiation 20-40 mun EIOOC COOEt H₁C CH н

Heterocycl. Commun. 1 (2009) 57-59 4-Phenyl-1,4-Dihydropyridines by Hantzsch Reaction in Water F. M. da Silva, M. Gonçalves, F. T. Ferre, J. D. Sena, R. B. Coelho and J. Jones Junior* Dept. Química Orgânica - Instituto de Química - UFRJ - CP 68.584, CEP 21941-972, Rio de Janeiro, RJ, Brasil NH₂ NH₄OH EtO₂ EtC (2) 3 ь d f а С е 4-0CH₃ R 4-CI 4-NO₂ Н 2-0CH₃ 2-CI

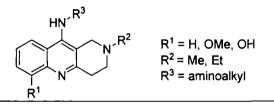


Heterocycl. Commun. 1 (2009) 63-65

Facile synthesis of 1,2,3,4-tetrahydrobenzo[b][1,6]naphthyridines

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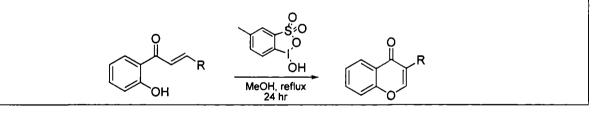


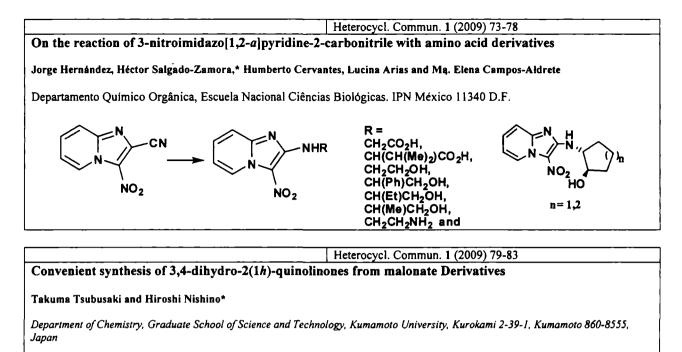
Heterocycl. Commun. 1 (2009) 67-71

Oxidative rearrangements of 2'-hydroxychalcones with 1H-1-hydroxy-5-methyl-1,2,3-benziodoxathiole 3,3dioxide

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Penn State Erie, The Behrend College, 5091 Station Road, Erie, PA 16563-0203, USA





The diethyl 2-[2-(*N*-arylamino)-2-oxoethyl]malonates underwent manganese(III)-mediated oxidative intramolecular cyclization to produce the 4,4-bis(ethoxycarbonyl)-3,4-dihydro-2(1*H*)-quinolinones in excellent yields.

