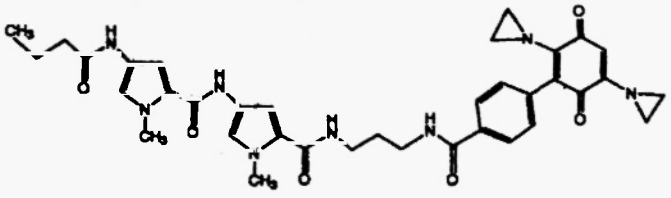
Graphical Abstracts

Heterocycl. Commun. 9 (2003) 331-334

DESIGN, SYNTHESIS AND BIOLOGICAL EVALUATION OF A NOVEL DZQ-POLYAMIDE CONJUGATE

Ramzi Ayyad, Rizwan Khan, Hari Pati, Moses Lee*
Department of Chemistry, Furman University, Greenville, SC 29613



Compound 1

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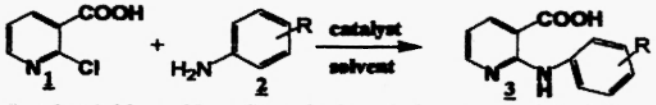
IMPROVEMENT OF THE ULLMANN'S CONDENSATION METHOD FOR THE SYNTHESIS OF 2-ANILINONICOTINIC ACIDS

Houria Mtibahi*, Pierre Brunet and Jacques Barbe.
Groupe d'Enseignement et de Recherche en Chimie Thérapeutique, Organique et Physique (GERCTOP)-UMR CNRS 6009 Fac. Pharmacie, 27 Bd Jean Moulin, 13385 Marseille Cedex5. France.



The role of catalyst (with or without Ca) and solvent (xylene or n-amyl alcohol) on the reaction yield were investigated.

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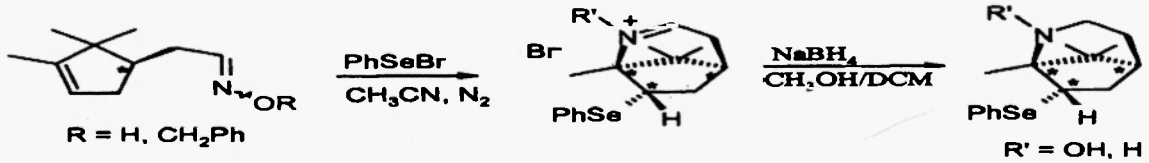
N-Heterocycles from Oxime and Oxime O-Benzyl Ethers *via* Electrophile Induced - Ring Formation. Route to Cyclic and Bicyclic Amine and Hydroxylamine

H. Ali Dondas*[a] and Naciye Yaktubay[b]
a. Mersin University, Faculty of Pharmacy, Chemistry Department, 33342 Mersin-Turkey
b. Çukurova University, Faculty of Medical, Pharmacology Department, 01330 Adana-Turkey

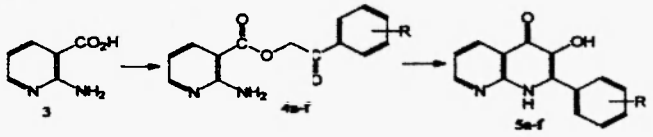
Phenylselenyl and iodine induced chiral and achiral ring forming cyclisations creating bridged bicyclo-[3.2.1]- and cyclic ring N-hydroxylamines and bicyclo-[3.2.1]- ring amines occur stereo-, regio- and facially specifically that involve multiplication of chiral centres from one to two and three in one pot reactions in moderate to good yield. An example of bromine induced cyclisation and 1,3-dipolar cycloaddition creating isoxazolidine-ring were also reported.



Heterocycl. Commun. 9 (2003) 345-350

Synthesis of 3-Hydroxy-2-Phenyl-1,8-Naphthyridin-4(1*H*)-one derivatives

Simón E. López,[1*] Mónica E. Rosales,[1] José Salazar,[1] Neudo Urdaneta,[1]
Rosa Ferrer,[2] Jorge E. Angel,[2] and Jaime E. Charris.[3]
[1] Departamento de Química, Universidad Simón Bolívar, Caracas 1080-A, Apartado 89000, VENEZUELA. [2] Departamento de Química, Facultad Experimental de Ciencias, La Universidad del Zulia, Maracaibo, VENEZUELA. [3] Laboratorio de Síntesis Organica, Facultad de Farmacia, Universidad Central de Venezuela, Caracas, VENEZUELA.



Heterocycl. Commun. 9 (2003) 351-353

SYNTHESIS OF 6-[(4-CHROMON-3-YL-BENZOPYRANO[4,3-b] PYRIDIN-2-YL)]-2H-[1,4]-BENZOXAZIN-3(4H)-ONES

G. Jagath Reddy *, D. Latha, C. Thirupathaiah and K. Srinivasa Rao

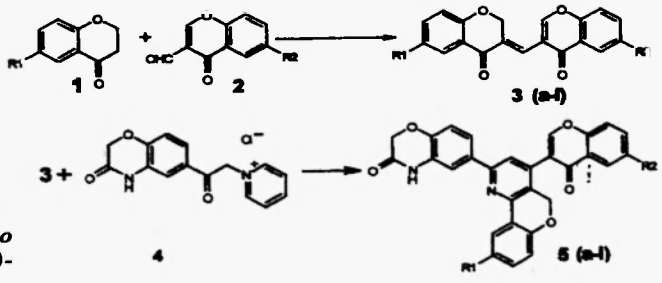
R & D Laboratories, Dr. Jagath Reddy's Heterocyclics, 81, S.V.Co-op Industrial Estate, Balanagar, Hyderabad – 500 037, India. e-mail-jagathreddy@usa.net; Fax # 91-40-23773487.

and

Md. Khalibullah

Department of Chemistry, Jawaharlal Nehru Technological University, Hyderabad-500072, India.

A series of new 6-[(4-chromon-3-yl-benzopyrano [4,3-b] pyridin-2-yl)]-2H-[1,4]-benzoxazin-3(4H)-ones(5a-l) have been prepared.

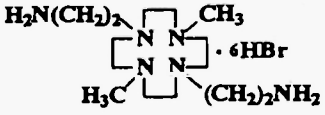


Heterocycl. Commun. 9 (2003) 355-358

SYNTHESIS OF 1,7-DI(2'-AMINOETHYL)-4,10-DIMETHYL-1,4,7,10-TETRAAZACYCLODODECANE.

Mircea Vlassa* and Cerasella Afloroaei
"Babes-Bolyai" University, Faculty of Chemistry and Chemical Engineerig,
Department of Organic Chemistry, 11 Arany Janos str., 3400-Cluj-Napoca, Romania.

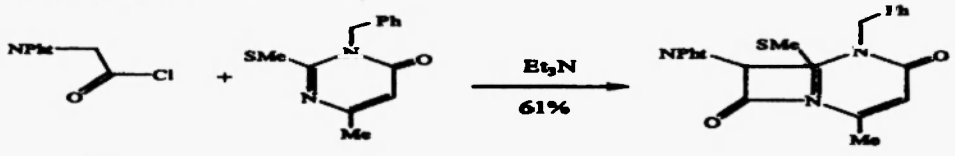
The synthesis and complexant properties of a new lariat ether, 1,7-di(2'- aminoethyl)-4,10-dimethyl-1,4,7,10-tetraazacyclododecane is presented.



Heterocycl. Commun. 9 (2003) 359-362

A CONTRIBUTION TO THE SYNTHESIS OF NEW CEPHALOSPORINS: 1-AZACEPHEM

Humberto R. Bizzo*, O. A. C. Antunes, André L. Gemal
Instituto de Química – UFRJ – CT Bl A Lab 641 Cidade Universitária, Rio de Janeiro, RJ 21945-970, Brazil



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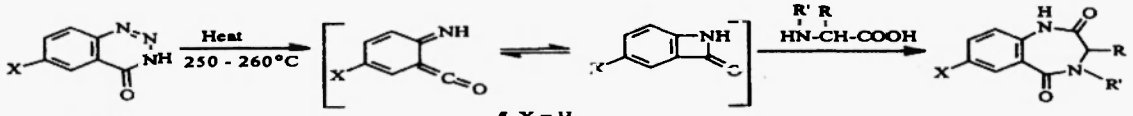
A NOVEL ONE STEP APPROACH TO THE SYNTHESIS OF 3H-1,4-BENZODIAZEPIN-(1H,4H)-2,5-DIONES FROM 1,2,3-BENZOTRIAZIN-4-(3H)-ONE.

Renu Gupta, Reenu Sirohi, Sudha Shastri and D. Kishore*
Department of Chemistry, Banasthali Vidyapith- 304022(Rajasthan)

1,2,3-Benzotriazin-4-(3H)-one(3) and its 6-chloro derivative (4) on thermal condensation with α-amino acids yielded 3H-1,4-benzodiazepin-(1H,4H)-2,5-diones(7-12) in moderate to good yield. The cyclocondensation is believed to proceed through the formation of an iminoketene intermediate (5).



3, X = H
4, X = Cl

5, X = H
6, X = Cl

7-12

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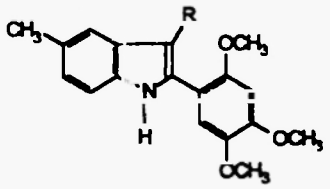
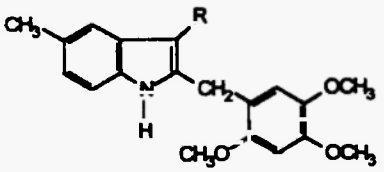
A MECHANISTIC DEVIATION IN THE BISCHLER INDOLE SYNTHESIS

F. Sánchez-Viesca*, Ma. R. Gómez and Martha Berros
Faculty of Chemistry, Graduate Division. National Autonomous University of Mexico
University City. Mexico, D. F., 04510



R = Et, Me, expected products



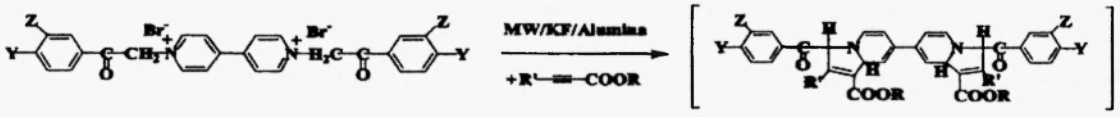
R = Et, Me, Pr, unexpected products

Heterocycl. Commun. 9 (2003) 373-376

SYNTHESIS OF NEW 1-HYRDOXYINDOLES FUNCTIONALIZED ON POSOTION 3 BY CYCLIZING REDUCTION

K. Attar[a], H.D. Camara[a], M. Benchidmi[a], E. Essassi[a], M. Pierrot
a. Laboratoire de Chimie Organique Heterocycle, Faculte des Sciences, Universite Mohammed V, Avenue Ibn Battouta, Rabat, MAROC
b. Laboratoire de Biomorganique Structurale, UMR 6517, Universite d' Aix-Marseille Cedex 20, France.

Cyclizing reduction of -(2',4'-dinitrophenyl) -dicarbonyl compounds to 1-hydroxyindoles is reported.



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POLYVINYLIC DERIVATIVES OF 4-ALLYLDITHIO-CARBOXYLATE-5-HYDROXY-3-METHYL-1-PHENYL-PYRAZOL

Alfonso Oliva, Aurora Molinari and Javier Caroca.
Instituto de Química, Universidad Católica de Valparaíso, Casilla 4059, Valparaíso, Chile.

Vinylic polymer derivatives of 4-allyldithiocarboxylate-5-hydroxy-3-methyl-1-phenylpyrazol 1 have been prepared by bulk homopolymerization and copolymerization with styrene or acrylamide.

1

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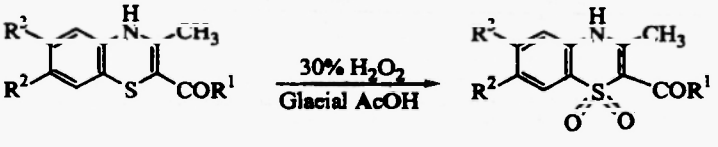
SYNTHESIS AND SPECTRAL STUDIES OF 4H-1,4-BENZOTHIAZINE S,S-DIOXIDES (SULFONES)

Kalpana Gupta, Bhawani Singh Rathore, Rajni Gupta, Vandana Gupta and M. Kumar*
Department of Chemistry, University of Rajasthan, Jaipur – 302004, India
e-mail: rrg_vg@yahoo.co.in / rrgupta@datainfosys.net

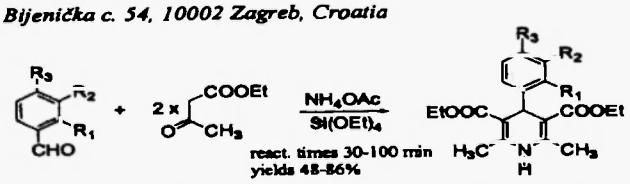
4H-1,4-Benzothiazine S,S-dioxides have been prepared by the oxidation of 4H-1,4-benzothiazines.



Heterocycl. Commun. 9 (2003) 385-390

A CONVENIENT HANTZSCH SYNTHESIS OF 1,4-DIHYDROPYRIDINES USING TETRAETHYL ORTHOSILICATE

M. Litvić,[1] I. Cepanec[1] and V. Vinković[2]
[1]*Department for Development of Chemical Synthesis, Belupo Pharmaceuticals & Cosmetics Ltd., Radnička c. 224, 10000 Zagreb, Croatia*
[2]*Ruđer Bošković Institute, Bijenička c. 54, 10002 Zagreb, Croatia*



Hantzsch synthesis using $Si(OEt)_4$ as water scavenger has been investigated and reaction mechanism proposed.

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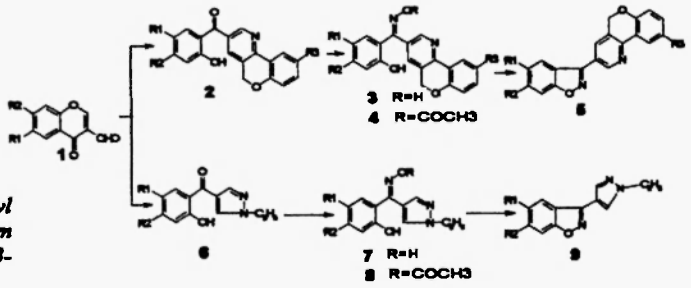
SYNTHESIS OF SOME NEW 3-BENZO PYRANOPYRIDINYL AND 3-PYRAZOLYL 1,2-BENZISOXAZOLES FROM *o*-HYDROXY HETEROARYLKETONES DERIVED FROM 3-FORMYLCHROMONE

G. Jagath Reddy *, D. Latha, C. Thirupathaiah and K. Srinivasa Rao
R & D Laboratories, Dr. Jagath Reddy's Heterocyclics, 81, S.V.Co-op Industrial Estate, Balanagar, Hyderabad – 500 037, India. E-mail: jagathreddy@hotmail.com; Fax # 91-40-23773487.

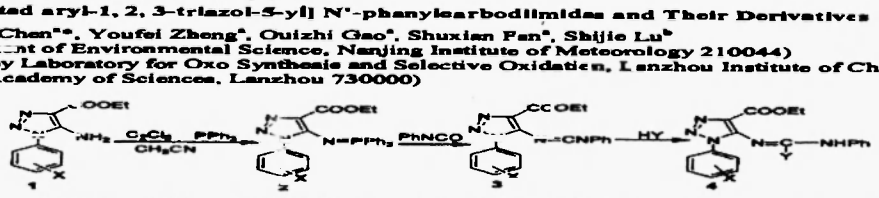
A series of 3-Benzopyranopyridinyl and pyrazolyl 1,2-benzisoxazoles (5&9) have been prepared from o-hydroxyarylketones (2&6) derived from 3-formylchromone (1).



Heterocycl. Commun. 9 (2003) 395-400

First Synthesis and Antibacterial Activity of Some N- [4-(Etboxycarbonyl)-1-substituted aryl-1, 2, 3-triazol-5-yl] N'-phanylcarbodiimides and Their Derivatives

Mindong Chen[a]*, Youfei Zheng[a], Ouizhi Gao[a], Shuxian Pan[a], Shijie Lu[b]
([a]Department of Environmental Science, Nanjing Institute of Meteorology 210044)
([b]State Key Laboratory for Oxo Synthesis and Selective Oxidation, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou 730000)

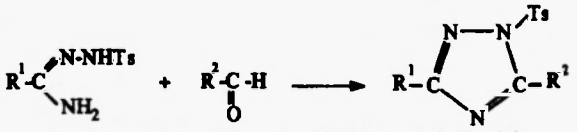


Some new N-[4-(ethoxycarbonyl)-1-substituted aryl-1, 2, 3-triazol-5-yl] N'-phenylcarbodiimides were first prepared starting from 1-substituted aryl-4-ethoxycarbonyl-5-[(triphenylphosphoranylidene) amino] -1, 2, 3 –triazoles 2 (iminophosphoranes) and phenyl isocyanate by using aza-Wittig reaction, which were reacted with alcohol or amine to give the compounds 4 in moderate or good yields.

Heterocycl. Commun. 9 (2003) 401-404

Synthesis of new N¹tosyl-1, 2, 4-triazoles from condensation of aldehydes with N¹tosylamidrazones

Fatma Allouche,[a] Fakher Chabchoub,[b] Béchir Ben Hassine,[a] Leila Chkir Ghdira,[c] Mansour Salem,[b,*]



[a]Laboratoire de Synthèse Organique Asymétrique et Catalyse Homogène, Faculté des Sciences , 5019 Monastir,Tunisie
[b]Laboratoire de Chimie Appliquée :Hétérocycles, Corps Gras et Polymères, Faculté des Sciences de Sfax, 3018 Sfax, Tunisie
[c]Laboratoire de pharmagnosie-biologie, Institue Superieur de biotechnologie de Monastir, 5019 -Tunisie.

The reaction of aldehydes with N¹tosylamidrazones 1 in presence of a catalytic amount of para toluene sulfonic acid leads to the corresponding N¹tosyl-1,2,4-triazoles 2a-h in good yields. The structure of 2a was ascertained by a crystal X-ray analysis.

Heterocycl. Commun. 9 (2003) 405-410

SYNTHESIS OF NOVEL PYRAZOLE DERIVATIVES FROM DIARYL 1,3-DIKETONES (PART-I)

Sandeep Nigam, Y.C. Joshi* and P. Joshi**
*Department of Chemistry, University of Rajasthan, Jaipur-302 004, India
**S.S. Jain, Subodh P.G. College, Jaipur, Rajasthan

Synthesis of various pyrazole derivatives 2a-2l is reported by the condensations of hydrazine hydrate in absolute ethanol with 1,3-diones 1a-1l.

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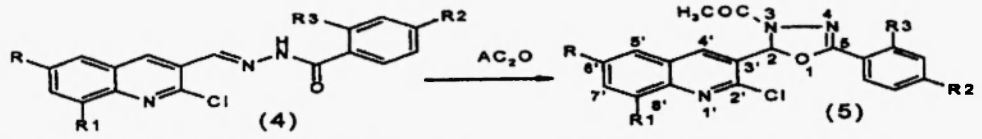
SYNTHESIS OF SOME NOVEL2-(2-CHLORO-3-QUINOLYL)-5-PHENYL-2, 3-DIHYDRO-1,3,4 – OXADIAZOLES

P.K.Dubey*, S.Srinivas Rao, P.V. Prasad Reddy
Department of Chemistry,College of Engineering, J N T University, Kukatpally, Hyderabad-72, A.P, India.

Reaction of 2-chloro-3-quinolinecarboxaldehydes (2) with aromatic acid hydrazides (3) gave quinoline-3-substituted hydrazones (4). The latter, on reaction with acetic anhydride gave novel 2-(2-chloro-3-quinolyl)-5-phenyl-2,3-dihydro-1,3,4-oxadiazole (5).

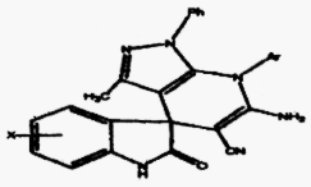


Heterocycl. Commun. 9 (2003) 415-420

FACILE MICROWAVE-ASSISTED ONE-POT SOLID PHASE SYNTHESES OF SPIRO [3H-INDOLE-3,4′-PYRAZOLO[3,4-b] PYRIDINES]

Anshu Dandia*, Kapil Arya , Meha Sati and Rekha Sharma
Department of Chemistry, University of Rajasthan, Jaipur - 302004, INDIA

Title compounds spiro[indole- pyrazolopyridines] 7 were synthesized in one -pot starting from substituted isatin under microwave irradiation.



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