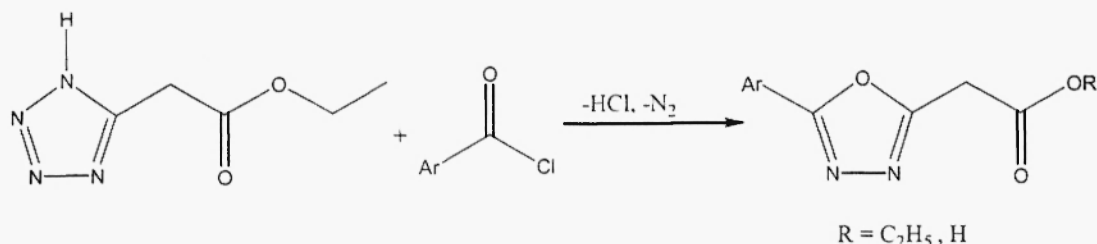


Graphical Abstracts

Heterocycl. Commun. 7 (2001) 411-416

Synthesis of 5-Aryl-1,3,4-Oxadiazolyl-2-Acetic Acids

Lubomir Janda, Aldrich Chemical Co., Inc.,
940 West Saint Paul Avenue, Milwaukee, WI, USA



Heterocycl. Commun. 7 (2001) 417-420

EFFICIENT SYNTHESIS OF PTEROCARPANS BY HECK-OXYARYLATION IN IONIC LIQUIDS

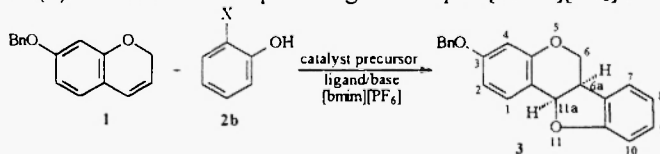
Loránd Kiss,^a Gábor Papp,^b Ferenc Joó,^{*b,c} Sándor Antus^{*a}

^aDepartment of Organic Chemistry, University of Debrecen, P.O.B. 20, H-4010 Debrecen, Hungary,

^bResearch Group of Homogeneous Catalysis, Hungarian Academy of Sciences, P.O.B. 7, H-4010 Debrecen, Hungary

^cInstitute of Physical Chemistry, University of Debrecen, P.O.B. 7, H-4010 Debrecen, Hungary,

An efficient synthesis of ($\pm$)-**3** has been developed using ionic liquid [bmim][PF₆] as solvent, as well as catalyst.



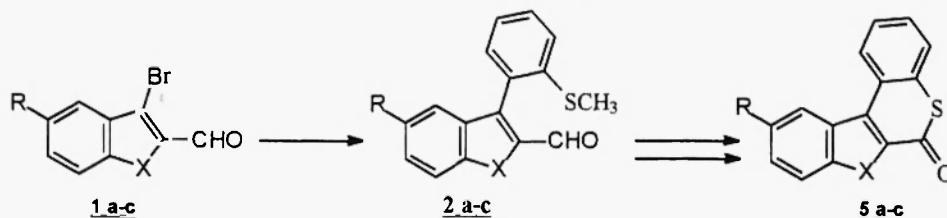
Heterocycl. Commun. 7 (2001) 421-426

A First Synthesis Of Isothiocoumestanes And Heterocyclic Analogues

Stéphanie Deprets and Gilbert Kirsch*

Groupe de Synthèse Organique et Hétérocyclique, Laboratoire de Chimie Organique, Université de Metz, Ile du Saulcy, 57012 Metz Cedex 01, France

The synthesis of Isothiocoumestan **5a** and heterocyclic analogues **5b-c** in three steps from bicyclic aldehydes **2a-c** is reported.



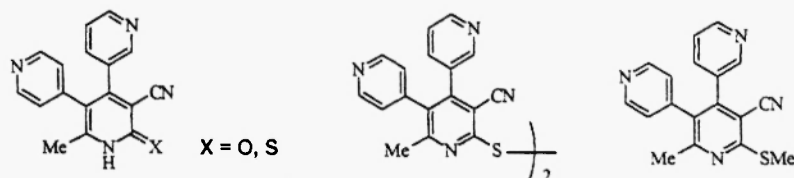
SYNTHESIS OF 4,5-DIPYRIDYLPYRIDINE-2(1H)-ONES, PYRIDINE-2(1H)-THIONES AND RELATED DERIVATIVES AS ANALOGUES OF CARDIOTONIC DRUG MILRINONE

A. Krauze^a, V. Garalene^b, R. Vitolipa^a, G. Duburs^a

^aLatvian Institute of Organic Synthesis, Riga, Latvia LV-1006

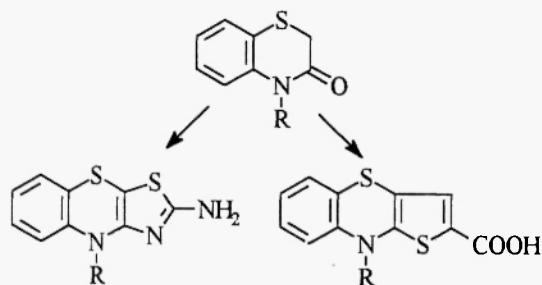
^bLithuanian Institute of Cardiology, Kaunas, Lithuania LT-3007

4,5-Dipyridyl substituted pyridine-2(1H)-one and pyridine-2(1H)-thione have been prepared by Michael reaction of 4-pyridylacetone and 2-cyano-3-(3-pyridyl)acrylamides (thioacrylamides) with subsequent heterocyclization, dehydration and dehydrogenation. Oxidation of thione yielded 2,2-bispyridyldisulfide, but alkylation - 2-methylthiopyridine. Their cardiovascular activity in vitro was screened.



New 1,4-benzothiazine fused heterocycles-V : Synthesis of 9H-thieno[3,2-b]benzothiazine and 4H-thiazolo[2,3-b][1,4]benzothiazine derivatives

Thieno and thiazolo benzothiazines have been synthesized with ethyl mercaptoacetate and thiourea respectively, in good yields.

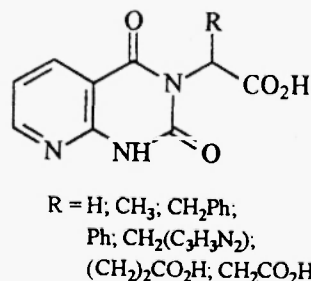


Lingaiah Nagarapu* and Narender Ravirala

CONVENIENT SYNTHESIS OF 3-(1-CARBOXYALKYL)PYRIDO[2,3-d]PYRIMIDINE-2,4-DIONES

M. Saoul, F.B. Benabdelouahab, F. El Guemmout
University Abdelmalek Essaadi, Faculty of Sciences-Tetouan,
B.P. 2121, Tetouan, Morocco

A.M. Romerosa
Area de Quimica Inorganica, Facultad de Ciencias, Universidad
de Almeria, 04071, Almeria, Spain

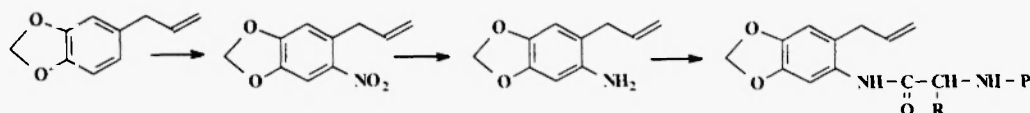


SYNTHESIS OF PEPTIDYL BENZODIOXOLE DERIVATIVES FROM SAFROLE, A POTENTIAL CLASS OF ANTITUMOR DRUGS

Heterocycl. Commun. 7 (2001) 445-448

Kezia Peixoto da Silva, Ivone A. de Souza, Antonio Rodolfo de Faria, Dalci Jose Brondani & Ana Cristina Lima Leite* - LABSINFA - Departamento de Ciências Farmaceuticas - Universidade Federal de Pernambuco. Rua Prof. Artur Sa S/N. CDU. 50740-520. Recife, Pernambuco - Brasil
acfb@npd.ufpe.br

A series of peptidyl benzodioxole from safrol was synthesized. Structure of these compounds was studied by IR and ¹H NMR.

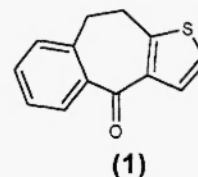


Facile Synthesis of 9,10-Dihydro-4H-Benzo [4,5] Cyclohepta [1,2-b] Thiophene-4-One: A Crucial Drug Intermediate-Application of Wittig-Horner Reaction

Heterocycl. Commun. 7 (2001) 449-454

M.S.R. Murty*, T. Ramalingam, G. Sabitha and J.S. Yadav
Organic Chemistry Division-I, Indian Institute of Chemical technology,
Hyderabad-500007, India.

Synthesis of 9,10-dihydro-4H-benzo [4,5] cyclohepta[1,2-b] thiophene-4-one (1), a key pharmaceutical intermediate was described by two different routes. The formation of Cannizzaro reaction proeducts was observed in the first route. Wittig-Horner reaction conditions were utilized in the second route to obtain the title compound in good yield.

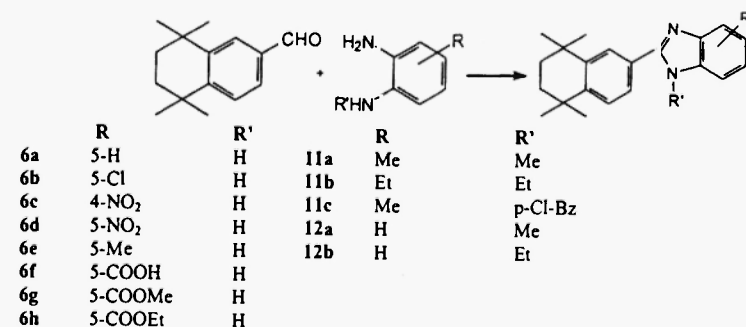


SYNTHESIS OF SOME NOVEL TETRAHYDRONAPHTHALENE BENZIMIDAZOLE DERIVATIVES

Zeynep Ates-Alagoz and Erdem Buyukbingol

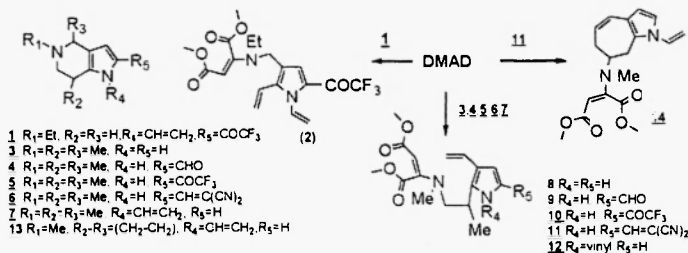
Department of Pharmaceutical Chemistry, University of Ankara, Faculty of Pharmacy, Ankara, Turkey

Synthesis of 2-[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalene)]-5- benzimidazole derivatives (6a-h) and synthesis of 1-alkyl-2-[(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalene)]-5- benzimidazole derivatives (11a-c) and (12a-b).



**TANDEM MICHAEL ADDITION – HOFFMAN ELIMINATION SEQUENCE OF DMAD ON
TETRAHYDROPYRROLO[3,2-C]PYRIDINES. NEW ROUTE TO VINYL PYRROLES .**

Alexey V. Varlamov*, Tatiana N. Borisova, Leonid G. Voskressensky, Bonifas Nsabimana, Alexey I. Chernyshev
Organic Chemistry Department of the Russian Peoples Friendship University, 6, Mikluho-Maklaia St., Moscow,
Russia, 117198 e-mail: rpfu@orc.ru

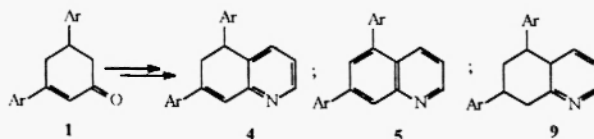


Cyclohexanone derivatives : Synthons for substituted quinolines

V Padmavathi*, B Jagan Mohan Reddy, M Rajagopala Sarma, A Padmaja & D Bhaskar Reddy

Department of Chemistry, Sri Venkateswara University, Tirupati - 517 502, India

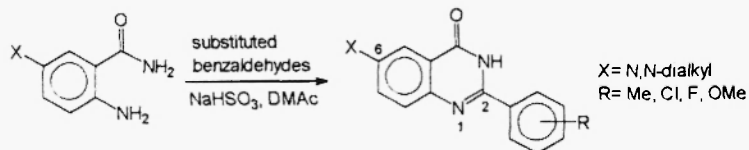
Substituted quinolines **4**, **5** and **9** were reported from *o*-allyl ethers of cyclohexanone derivatives by [2,3] sigmatropic rearrangements followed by cyclization. All the new compounds were established by IR and 1H NMR spectra.



**Synthesis and preliminary cytotoxic and antifungal evaluation
of some 6-N,N-dialkyl 2-aryl-4(3H)-quinazolinone derivatives**

Simon E. Lopez,^{1*} Mónica E. Rosales,¹ Carlos E. Canelon,¹ Edgar A. Valverde,¹ Rosa C. Narváez,¹ Jaime E. Charris,² Fernando A. Giannini,³ Ricardo D Enriz,² Mirta Carrasco³ and Susana Zacchino⁴

Departamento de Química,¹ Universidad Simón Bolívar, Caracas 1080-A, Apartado 89000, Venezuela. Facultad de Farmacia,² Universidad Central de Venezuela, Caracas, Venezuela. Facultad de Química, Bioquímica y Farmacia,³ Universidad Nacional de San Luis, Chabuco y Pedernera (57000) San Luis, Argentina. Área Farmacognosia⁴, Facultad de Ciencias Bioquímicas y Farmacéuticas, Universidad Nacional de Rosario, Suipacha 531, 2000 Rosario, Argentina



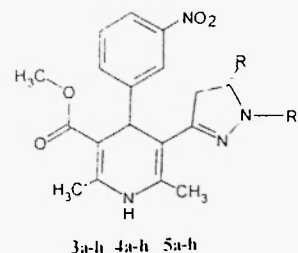
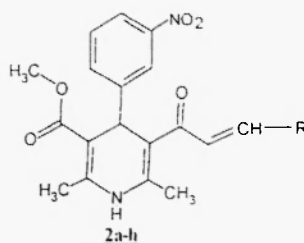
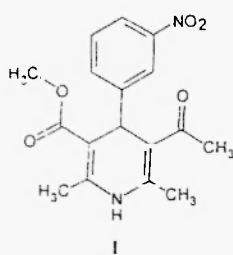
SYNTHESIS OF SOME NEW UNSYMMETRICAL 1,4-DIHYDRO-PYRIDINE DERIVATIVES AS POTENT ANTITUBERCULAR AGENTS

Heterocycl. Commun. 7 (2001) 481-484

Harsukh Gevariya, Bhavik Desai, Vipul Vora and Anamik Shah*

Department of Chemistry, Saurashtra University, Rajkot-360 005, Gujarat (India)

Few novel unsymmetrical 1,4-dihydropyridines **3a-h**, **4a-h** and **5a-h** were prepared from 2,6-dimethyl-3-acetyl-5-carbomethoxy-4-(3'-nitro phenyl)-1,4-dihydropyridine **1** via chalcones **2a-h** formation in two steps. All compounds were tested for antitubercular activity against H₃₇Rv strain.



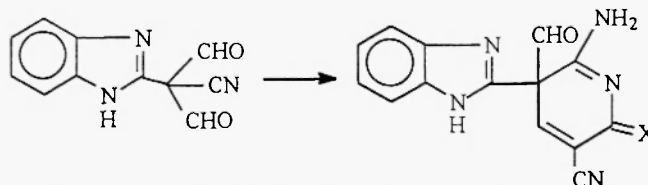
A MILD AND EFFICIENT SYNTHESIS OF NEW BENZIMIDAZOLE DERIVATIVES VIA A ONE-POT REACTION. AN ADDITION VERSUS CONDENSATION REACTION

Heterocycl. Commun. 7 (2001) 485-492

Fawi M. Abd El Latif, Mohamed A. Kahlil, Islam Helmy and Haussien A. Solieman

Chemistry Department, Aswan faculty of Science, South valley University, Aswan, Egypt

New benzimidazolo-pyrazole; pyridine; pyrimidine and triazole derivatives were obtained starting from 2-cyanomethyl-benzimidazole-2,2-dicarboxaldehyde



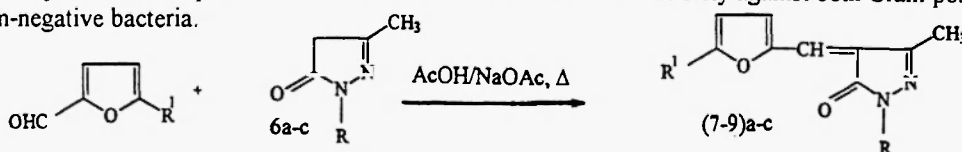
SYNTHESIS AND BIOLOGICAL ACTIVITY OF SOME 4-(5-ALKYL- OR 5-ARYL-2-FURFURYLIDENE)-1,3-DISUBSTITUTED-2-PYRAZOLIN-5-ONES.

Heterocycl. Commun. 7 (2001) 493-500

A.A.F. Wasfy, A.I.El-Shenawy and S.A. Nassar

Chemistry Department, Faculty of Science, Benha University, Benha - Egypt .

A series of N-substituted-3-methyl-4-(5-alkyl- or 5-aryl-2-furfurylidene)-2-pyrazolin-5-ones (7-9)a-c have been synthesised by the reaction of N-substituted-3-methyl-2-pyrazolin-5-ones **6a-c** with 5-alkyl- or 5-aryl-2-furfuraldehyde. The compounds were evaluated for their antibacterial activity against both Gram-positive and Gram-negative bacteria.



**AN EFFICIENT FACILE AND SELECTIVE
HYDROXYLATION OF NITROGEN HETEROCYCLES**

Heterocycl. Commun. 7 (2001) 501-506

Aayesha Nasreen and Srinivas R. Adapa*

*Inorganic Division, Indian Institute of Chemical Technology,
Hyderabad – 500 007, India.*

