

Graphical Abstracts

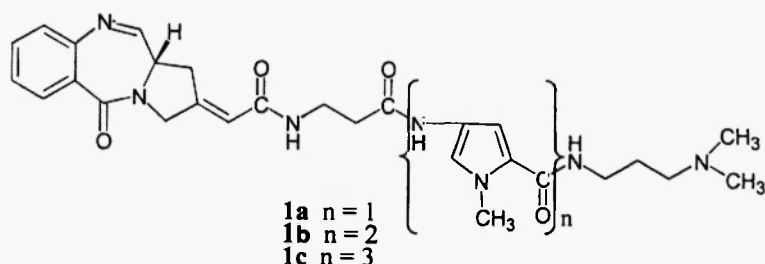
Heterocycl. Commun. 8 (2002) 115-122

Design and Synthesis of Novel DNA Interstrand Cross-Linking Agents: C2-Linked Pyrrolo[2,1-c][1,4]benzodiazepine Polyamide Conjugates

Rohtash Kumar and J. William Lown*

Department of Chemistry, University of Alberta, Edmonton, AB, Canada, T6G 2G2

The design and synthesis of novel C2-linked pyrrolo[2,1-c][1,4]benzodiazepine (PBD) -polyamide conjugates (**1a-c**) as DNA minor groove binding agents are described.

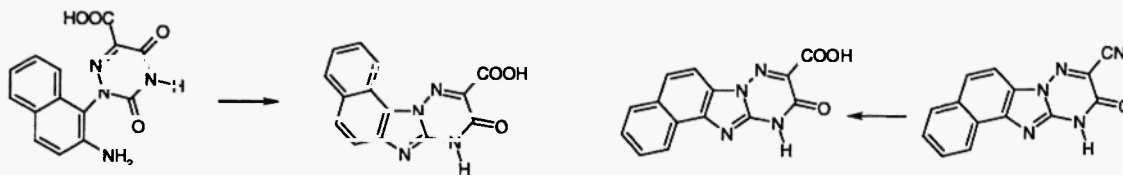


Heterocycl. Commun. 8 (2002) 123-128

Cyclocondensation Reactions of Heterocyclic Carbonyl Compounds VII Synthesis of some substituted benzo-[1,2,4]triazino[2,3-a]benzimidazoles.

Petr Břlek*, Jan Slouka,

Department of Organic Chemistry, Palacký University, 771 46 Olomouc, Czech Republic, E-mail: břlek@aix.upol.cz



Heterocycl. Commun. 8 (2002) 129-134

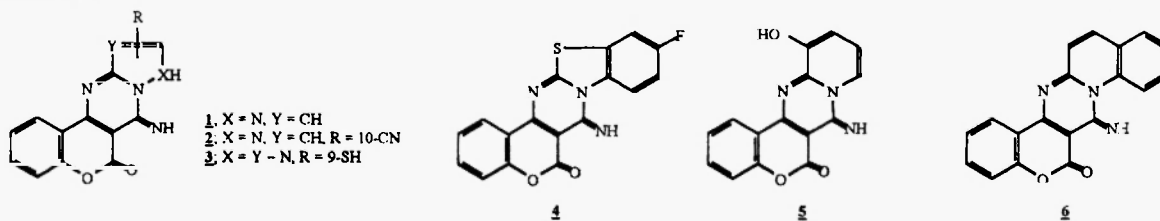
SYNTHESIS AND STRUCTURE OF SOME 3,4-ANNELATED COUMARIN SYSTEMS

Sevdije Govori*, Vuksan Kaljaj*, Vladimir Rapić*, Lidija Kaljaj*, and Senka Đaković*

*Faculty of Science, University of Priština, Priština, Yugoslavia

^bFaculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

By the action of heteroaryl amines and Me₃N on 4-chlorocoumarin-3-carbonitrile in acetonitrile 83-96 % of the following 3,4-annelated coumarins were obtained:

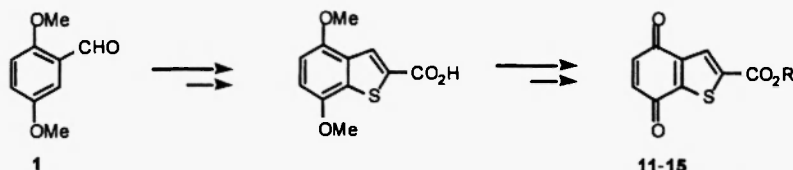


**STUDIES ON QUINONES . PART 36. SYNTHESIS AND TRYPANOCIDAL
ACTIVITY OF 2-ALKOXYCARBONYLBENZO[b]THIOPHENE-4,7-QUINONES**

Carlos D. Pessoa-Mahana,^{a,*} Jaime A. Valderrama,^a María G. Olmos,^a Omar A. Espinoza,^a Hernán Pessoa-Mahana,^b
Antonieta Rojas de Arias,^c Héctor Nakayama,^c Susana Torres,^c Jorge Miret^c

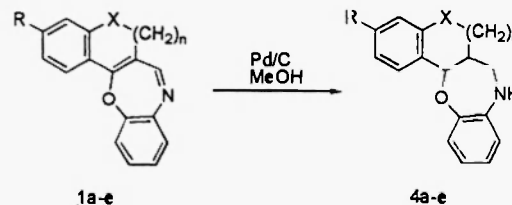
^aFacultad de Química, Pontificia Universidad Católica de Chile, Casilla 306, Santiago 22, Chile. ^bFacultad de Ciencias Químicas y
Farmacéuticas, Universidad de Chile, Casilla 233, Santiago 1 Chile. ^cIICS-UNA (Instituto de Investigaciones en Ciencias de la Salud-
Universidad Nacional de Asunción), Río de la Plata y Lagerenza, Casilla 2511, Asunción, Paraguay

The synthesis of benzo[b]thiophene-4,7-quinones 11-15 from 1 and the influence of their lipophilia and LUMO
energy upon the *in vitro* trypanocidal activity are described.


SYNTHESIS OF TETRAHYDRO AND HEXAHYDRO TETRACYCLIC 1,5-BENZOXAZEPINES

Batchu Chandrasekhar,* G. Om Reddy, M.R. Sarma, A.S.R. Prasad, Rabin Bera, and T.S.V. Prasad Reddy
Process Research & Technology Development, Dr. Reddy's Research Foundation, Bollaram Road, Miyapur,
Hyderabad – 500 050, India. Tel No. 91-40-3045439, Fax 91-40-3045438

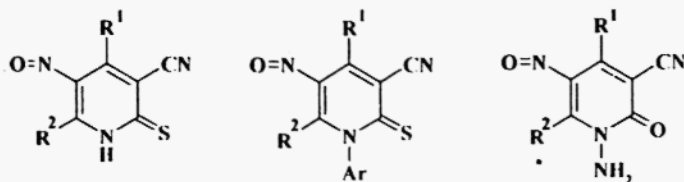
Tetrahydro-tetracyclic-1,5-benzoxazepines (4a-c) and
hexahydro-tetracyclic-1,5-benzoxazepines (4d-e) from
tetracyclic-1,5-benzoxazepines (1a-e) were prepared in
presence of Pd/C under medium pressure hydrogenation.


**A NOVEL SYNTHETIC ROUTE TO NITROSOPYRIDINE-2(1H)-THIONES
AND NITROSO-N-ARYLPYRIDONES**

Ali M. Elzanate

Chemistry Department, Faculty of Science, Cairo University (Beni Suef Branch),
Beni Suef, Egypt

A novel and efficient method for the synthesis of a new variety of –Abstract
the reaction of oxime nitrosopyridine-2(1H)-thiones and nitroso-N-arylpriodones by
derivatives of β -diketones and β -ketoesters with cyanothioacetamide and
cynoacetanilides, respectively. The synthetic potential of the method is demonstrated

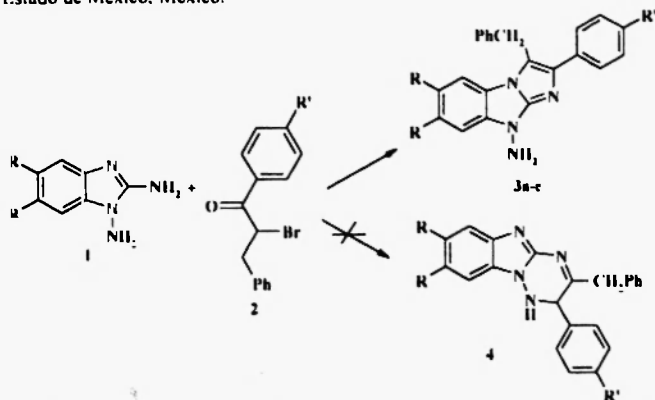


Reaction of 1,2-Diaminobenzimidazole with 1-Aryl-2-bromo-3-phenylpropanone. Synthesis of 2-Aryl-3-benzyl-9-aminoimidazo[1,2-a]benzimidazoles.

 Braulio Insuasty¹*, Fernando Fernández¹, Jairo Quiroga¹, Roberto Martínez², Rubén Gaviño¹, Enrique Angeles¹
¹Grupo de Investigación de Compuestos Heterocíclicos, Departamento de Química, Universidad del Valle, A. A. 25360,

Cali, Colombia.

²Instituto de Química, Universidad Nacional Autónoma de México, Circuito Exterior, Ciudad Universitaria, Coyoacán 04510, México.

³Laboratorio de Química Medicinal, Facultad de Estudios Superiores Cuautitlán, Universidad Nacional Autónoma de México, Cuautitlán, Estado de México, México.

SYNTHESIS OF NEW 4-[4-(4-METHOXYPHENYL)-5-(2-PHENYLQUINAZOLIN-4-YL)-1,3-THIAZOL-2-YL]-MORPHOLINE AND N'-[5-(4-METHOXYPHENYL)-1,3-OXATHIOL-2-YLIDEN]-(2-PHENYL-QUINAZOLIN-4-YL)-AMINE

 Walid Fathalla^a, Jaromír Marek^b and Pavel Pazdera^{a*}
^a Department of Organic Chemistry, Masaryk University, 611 37 Brno, Czech Republic

^b Laboratory of Functional Genomics and Proteomics, Masaryk University, 611 37 Brno, Czech Republic.

 Two-component domino-reaction of **1** with 4-methoxyphenacyl bromide afforded the kinetically controlled **4** and thermodynamically controlled **6**. IR, ¹H, ¹³C NMR spectroscopy confirmed **4** and **6**. The identity of **6** was confirmed by X-ray structural analysis, too.

A FACILE SYNTHESIS OF p-BIS(4-THIAZOL-IDINON-3-YL) PHENYLENES AND RELATED SYSTEMS

M. Abdel-Megid* and M.A.A.Awas

Chemistry Department, Faculty of Education, Ain-Shams University, Roxy, Cairo, Egypt

p-Bis (4 - thiazolidinon - 3 - yl) phenylenes were synthesized from cycloaddition of thioglycolic acid with schiff bases of p - phenylenedi - amine or by treatment of p - bis (thiouredo) phenylenes with ethyl chloro - acetate. Some of the newly compound were subjected under biological tests.

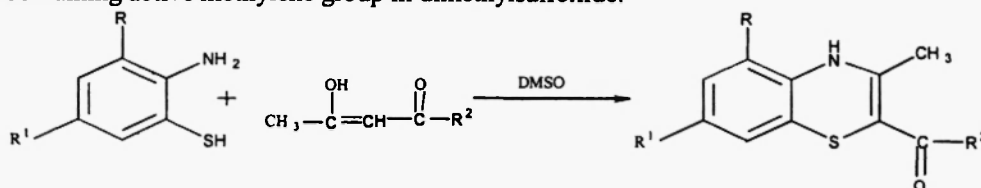


ONE - POT SYNTHESIS OF 3,5-DIMETHYL/ 3,7-DIMETHYL-4H-1,4-BENZOTHAZINES

Leby Thomas, Archana Gupta and Vandana Gupta*

Department of Chemistry, University of Rajasthan, Jaipur-302004, India.

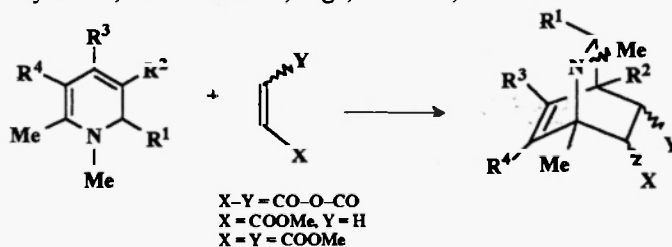
One-pot synthesis of title compounds is reported by the condensation and oxidative cyclization of 2-amino-3-methyl/5-methylbenzenethiols with compounds containing active methylene group in dimethylsulfoxide.



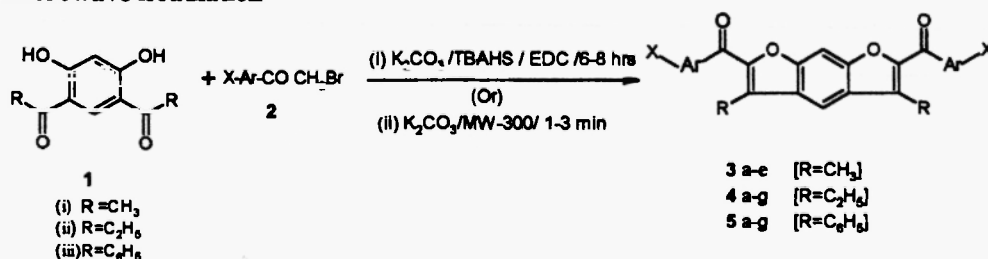
2-AZABICYCLO[2.2.2]OCT-7-ENES. 1. SYNTHESIS FROM POLYSUBSTITUTED 1,2-DIHYDROPYRIDINES

Inese Reine, Dzintra Muceniece, Viesturs Lūsis, Andrejs Ķemme

Latvian Institute of Organic Synthesis, 21 Aizkraukles, Riga, LV 1006, LATVIA



Facile synthesis of biologically active linear bisaroylbenzodifurans under solvent free microwave irradiation



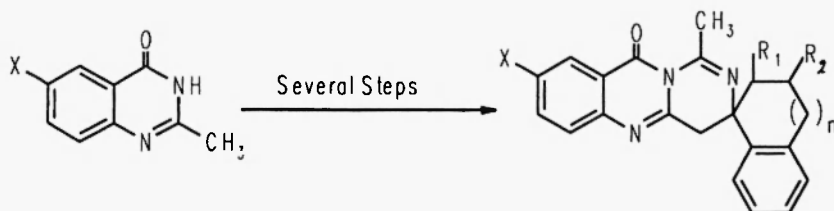
Krishna Murthy K S, Rajitha B, Kanakalingeswara Rao M*,
Raja Komuraiah and Reddy S M†

SYNTHESIS OF SOME NEW SPIROPYRIMIDOQUINAZOLINE DERIVATIVES.

Maher F.El-Zohry^{*1}, Abdullah A.Al-Ahmadi² and Fatimah A.Aquily².

(1) Department of Chemistry, Faculty of Science, Assuit University, Assuit, 71516, Egypt, E-mail : mfzohry@yahoo.com

(2) Department, Chemistry, Faculty of Applied Science, Umm Al-Qura University, Makkah Almukarramah, P.O.Box 5576, Soudi Arabia.



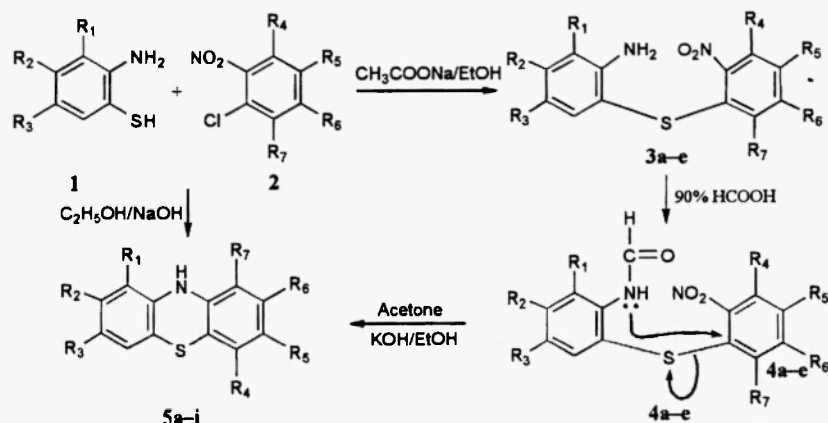
SYNTHESIS OF PHENOTHAZINES VIA SMILES REARRANGEMENT

P.R. Sharma, Vandana Gupta, D.C. Gautam and R.R. Gupta*

Department of Chemistry, University of Rajasthan, Jaipur – 302 004, INDIA

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Synthesis of 3-bromo/1,2-dimethylphenothiazines is reported by Smiles rearrangement.



SYNTHESIS AND ANTIMICROBIAL EVALUATION OF OXAZOLE-1,4-NAPHTHQINONES

Claudia G. T. de Oliveira^a, Vitor F. Ferreira^a, Cícero Freitas^b, Jupira M. Carballido^c

^aDepartamento de Química Orgânica, Instituto de Química, Universidade Federal Fluminense, Campus do Valonguinho, Niterói, 24020-150, RJ, Brazil; ^bDepartamento de Biologia Celular, Instituto de Biologia, Universidade Federal Fluminense, Campus do Valonguinho, Niterói, 24020-150, RJ, Brazil.; ^cHospital Universitário Antonio Pedro, Universidade Federal Fluminense, Microbiologia, Niterói, 24030-210, RJ, Brazil.

Synthesis and antibacterial activity of several oxazole fused to 1,4-naphthoquinones were studied.

