

Graphical Abstracts

Heterocycl. Commun. 9 (2003) 9-12

FISCHER INDOLE SYNTHESIS IN THE ABSENCE OF A SOLVENT

Kiyoshi Matsumoto,^{a,*} Akio Tanaka,^a Ikumi Yukio,^a Naoto Hayashi,^a Mitsuo Toda^b and Robert A. Birkman^c

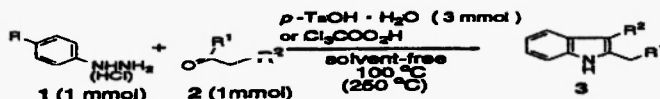
^a Graduate School of Human and Environmental Studies, Kyoto University,

Kyoto 606-8501, Japan

^b Faculty of Engineering, Saitama University, Urawa 432-8561, Japan

^c National Radiological Protection Board, Chilton, Didcot, Oxfordshire OX11 0RQ, UK

Abstract: The Fischer indole synthesis was successfully achieved without solvent in a simple procedure with excellent yields but with some minor limitations.



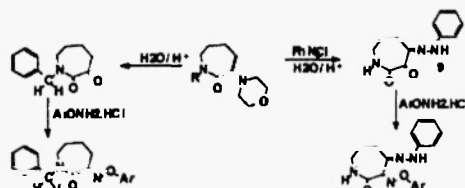
Heterocycl. Commun. 9 (2003) 13-18

Synthesis of new azepanedione oximes

Hayat El From*, Marie H  lene Pera*, Gerard Leclerc* and Ivan Rocha Pitta**

* Groupe de Pharmacochimie Molculaire
Universit   Joseph Fourier, Meylan France

** Universidade Federal de Pernambuco
Departamento de Antibioticos, Recife, Brasil

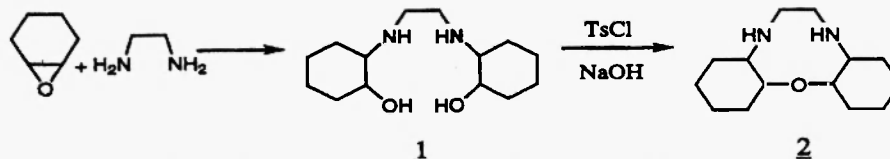


Heterocycl. Commun. 9 (2003) 19-22

A MACROPOLYCYCLE WITH TWO CYCLOHEXANE RINGS FUSED TO A 1,4-DIAZA-7-OXA-CYCLONONANE CORE

Geoffrey A. Lawrence,* Marcel Maeder and Mark J. Robertson

Discipline of Chemistry, School of Environmental and Life Sciences, The University of Newcastle, Callaghan, NSW 2308, Australia



Heterocycl. Commun. 9 (2003) 23-30

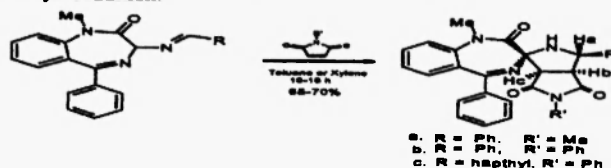
SYNTHESIS OF SOME NOVEL SPIRO BENZODIAZEPINES INCLUDING A PYRROLIDINE RING

H. Alt D  das* and Sultan S  mer*

a. Mersin University, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Mersin-Turkey

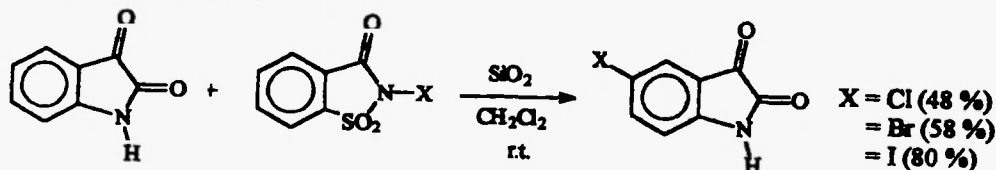
b. Mersin University, Science and Arts, Faculty, Chemistry Department, Mersin-Turkey

Some novel spiro-benzodiazepines derivatives were prepared via thermal and metal catalysed imine-azomethine ylide-1,3-dipolar cycloaddition cascade reactions. This substrate allows the influence of the new stereocentres on the cascade to be assessed with respect to the configuration of the azomethine ylide that is generated and the facial selectivity of the subsequent cycloaddition.



**SiO₂ MEDIATED REACTION OF ISATIN
WITH α -HALOSACCHARINS:
A REGIOSPECIFIC PREPARATION OF 5-HALOISATINS**

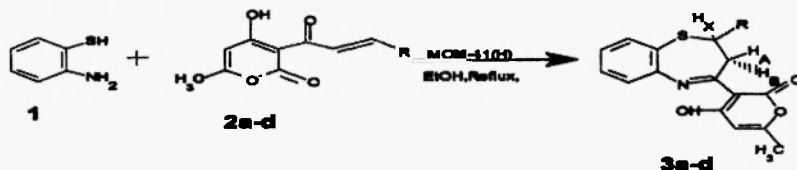
Soraia P L. de Souza, Joaquim Fernando M. da Silva* and Marcio C S. de Mattos*
Instituto de Química, Departamento de Química Orgânica, UFRJ, Caixa Postal 68545,
21945-970, Rio de Janeiro, Brazil



**Benzothiazepine Fused Heterocycles VI:
A Convenient Synthesis of 2-Aryl-4-(4-Hydroxy-6-Methyl-2-Pyron-3-yl)-2,3-Dihydro-1,5-
Benzothiazepines Using MCM-41(H) Zeolite**

Lingsiah Nagarapu*, R.Narendar and K.Sucheta
Organic Chemistry-II Division
Indian Institute of Chemical Technology, Hyderabad-500 007, India.

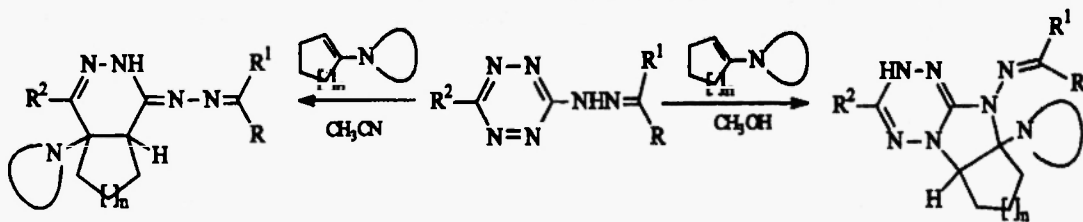
A simple and convenient procedures have been developed for the synthesis of 2-aryl-4-(4-hydroxy-6-methyl-2-pyrone-3-yl)-2,3-dihydro-1,5-benzothiazepines using MCM-41(H) zeolite at reflux temperature. The important features of the reaction is that the MCM-41(H) zeolite is recovered and can be recycled without substantial loss in the yield of product.



**UNEXPECTED PRODUCTS IN THE REACTIONS
OF s-TETRAZINE HYDRAZONES WITH ENAMINES**

Gennady L. Rusinov*, Rashida I. Ishmetova, Ilya N. Ganebnykh, Oleg N. Chupakhin,
Grigory G. Aleksandrov, Igor A. Litvinov, Dmitry B. Krivolapov

Institute of Organic Synthesis of RAS (Ural Div.), 20, S. Kovalevskoy st., Ekaterinburg, 620219, Russian Federation



NEW SYNTHESIS OF TRIAZOLO[5,1-a] AND [3,4-a]ISOINDOLES BY INTERNAL ELECTROCYCLISATION OF DISUBSTITUTED TRIAZOLIUM YLIDES

Georgiana G. Surpateanu; ** Patrice Woisel;^b Gérard Vergoten^c and Gheorghe Surpateanu^b

^aDepartamentul de Chimie Organica si Biochimie, Facultatea de Chimie, Universitatea

« Al. I. Cuza », B-dul Copou nr. 11, Iasi 6600, Romania.

^bLaboratoire de Synthèse Organique et Environnement, E.A. 2599,

Université du Littoral,

Côte d'Opale, Maison de la 145 Avenue Maurice Schumann, 59140

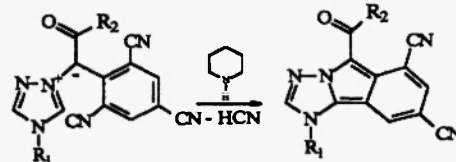
Dunkerque, France

^cCRESIMM Centre de Recherche et d'Etudes en simulation et

Modélisation Moléculaire,

Université des Sciences et Technologies de Lille, Bâtiment C8, 59650

Villeneuve d'Ascq, France



The synthesis and the characterisation of new triazoloisoindole derivatives is reported

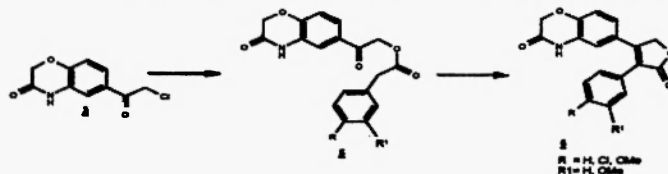
SYNTHESIS OF 6-(5-OXO-4-PHENYL-2,5-DIHYDROFURAN-3-YL)-2H-1,4-BENZOXAZIN-3(4H)-ONE AS POTENTIAL NON-STEROIDAL ANTI-INFLAMMATORY AGENTS

Venkateshwar T kumar, Srinivasa K Rao & Lakshmi V Narayana

(Siris Ltd, L B Nagar, Hyderabad, A.P., INDIA-500 074)

Pranod K Dube y* and Aparna V

(Department of Chemistry, College of Engineering, J. N. T. University, Kukatpally, Hyderabad, A.P., INDIA-500 072)



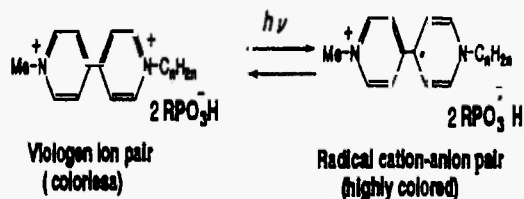
SYNTHESIS AND PHOTO-INDUCED REDUCTION OF N,N'-DIALKYL-4,4'-BIPYRIDINIUM BIS-ALKANEPHOSPHONATES

MASATO NANASAWA*, NORIAKI KOSAKI, TOMOMI KANEKO, and MICHIO HIRAI

Department of Applied Chemistry and Biotechnology, Faculty of Engineering

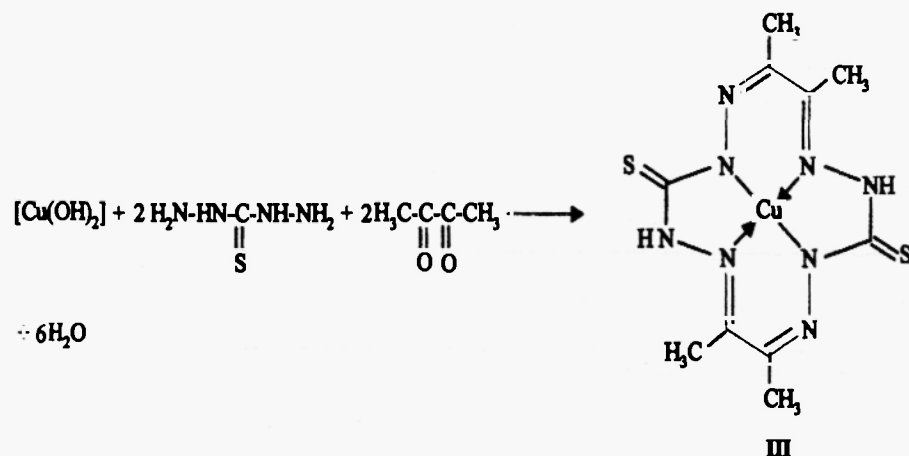
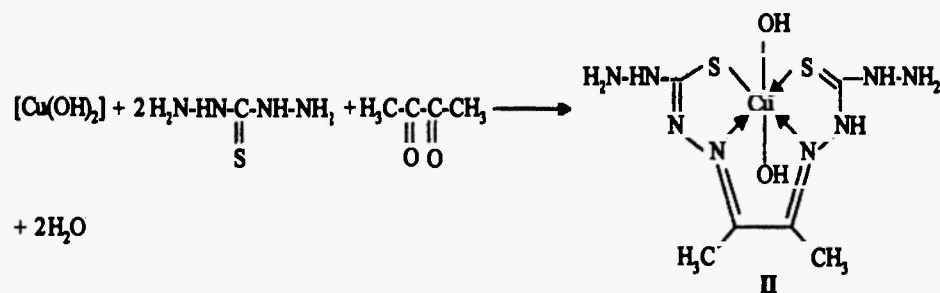
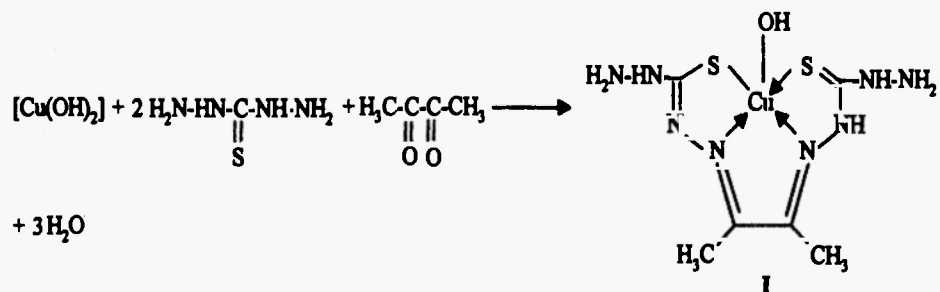
Yamanashi University, Takeda 4, Kofu 400-8511, Japan

Title compounds were synthesized by Menshutkin reaction with alkyl halides, followed by anion-exchange reaction with alkanephosphonates. The steady state UV-irradiation of their thin films induced the formation of viologen radical cations via intra-molecular ET-reaction.



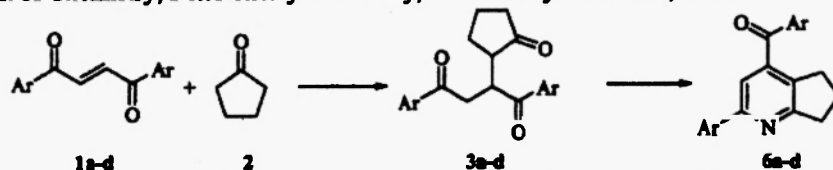
COPPER(II) HETEROCYCLIC COMPOUNDS WITH 4,5-DIMETHYL-2,3,6,7-TETRA-AZAOCTADIEN-3,5-DITHIOHYDRAZINE-1,8 AND 3,10-DITHIO-6,7,13,14-TETRA-METHYL- 1,2,4,5,8,9,11,12- OCTAAZACYCLOTETRADEKATETRAEN- 1,5,7,12 OBTAINED IN GELATIN-IMMOBILIZED MATRIX AS A RESULT OF TEMPLATE SYNTHESIS

Oleg V. Mikhailov *, Tatyana A. Shamilova * & Marina A. Kazymova *



Synthesis and Characterization of 2-Phenyl-4-benzoyl-6,7-dihydro-5H-cyclopenta[b]pyridine and its Derivatives

H. Surya Prakash Rao*, S. P. Senthilkumar and K. Jeyalakshmi
Department of Chemistry, Pondicherry University, Pondicherry – 605 014, India

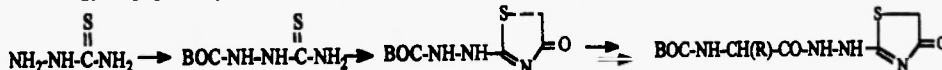


The triketones 3a-d were transformed to 4-benzoylcyclopenta[b]pyridine derivatives (6a-d) under amination-cyclization conditions.

SYNTHESIS OF NEW PEPTIDYL DERIVATIVES FROM 4-THIAZOLIDONE

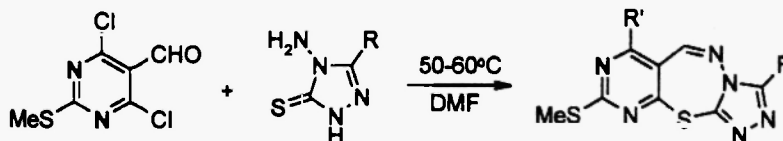
Ana Cristina Lima Leite*, Luciene Maria F. Santos, Jassaina Versiani dos Anjos,
Maria Patricia Albuquerque de Farias, Ivone Antonia de Souza & Dalci José Brondani
Laboratório de Planejamento, Avaliação e Síntese de Fármacos - LABSINFA, - Departamento de Ciências Farmacêuticas - Universidade Federal de Pernambuco - Rua Prof. Artur Sá S/N, CDU, 50740-520, Recife-PE-Brasil, acib@npd.ufpe.br

A synthesis of a series of peptidyl derivatives from 4-thiazolidone derivatives is reported. A strategy of peptide synthesis was able to obtain the new compounds in good yields.



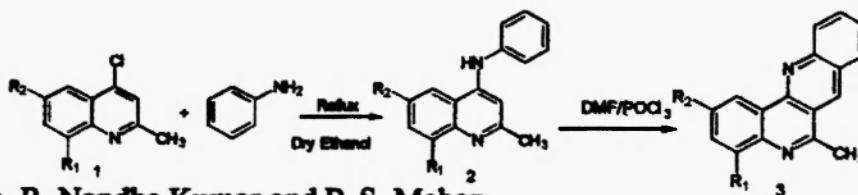
SYNTHESIS OF NOVEL PYRIMIDO[5,4-f]-[1,2,4]TRIAZOLO[3,4-b][1,3,4]THIADIAZEPINES

A. Brukstus, I. Susvilo, S. Tumkevicius*
Department of Organic Chemistry, Faculty of Chemistry, Vilnius University,
Naugarduko 24, Vilnius LT-2006, Lithuania



R = H, Me, Et, C₆H₅, 4-MeOC₆H₄, 2-furyl, 4-ClC₆H₄; R' = Cl, HO, MeO

A Facile approach to dibenzo [b,f][1,6] naphthyridines using Vilsmeier conditions

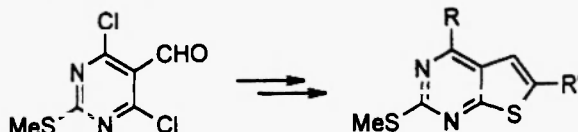


T. Suresh, R. Nandha Kumar and P. S. Mohan

SYNTHESIS OF 4,6-DISUBSTITUTED THIENO[2,3-*d*]-PYRIMIDINES FROM 4,6-DICHLORO-2-METHYLTHIO-PYRIMIDINE-5-CARBALDEHYDE

S. Tumkevicius*, A. Kaminskas, V. Bucinskaite, L. Labanauskas

Department of Organic Chemistry, Faculty of Chemistry, Vilnius University, Naugarduko 24, Vilnius LT-2006, Lithuania



R = Cl, OH, SCH₂CO₂Et, Et₂N, O(CH₂)₄N; R' = 1*H*-benzimidazol-2-yl, CO₂Et, CO₂H, CONHNH₂, CH₂OH

BIOLOGICALLY POTENT HETEROCYCLIC SULFONAMIDE IMINES AND THEIR MANGANESE(II) COMPLEXES

Mukta Jain¹, Sampat Nehra*, P.C. Trivedi* and R.V. Singh^{1*}

¹Department of Chemistry, University of Rajasthan, Jaipur, India.

*Department of Botany, University of Rajasthan, Jaipur, India.

Fungicidal, bactericidal and nematocidal activities of heterocyclic sulphonamide imines and their manganese(II) complexes have been discussed.

