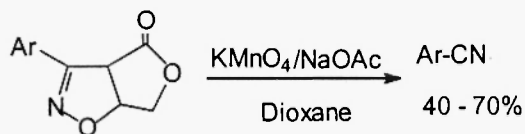


## Graphical Abstracts

Heterocycl. Commun. 7 (2001) 209-212

### Oxidative Degradation of Arylfuro-1,2-oxazoles to Arylnitriles by Potassium Permanganate



Héctor Salgado-Zamora,<sup>\*1</sup> Elena Campos,<sup>1</sup> Rogelio Jiménez,<sup>1</sup> Rosalba Ruiz,<sup>1</sup> Teresa Castaneda,<sup>2</sup> and Sara Turiján<sup>3</sup>; <sup>1</sup>Departamento de Química Orgánica, Escuela Nacional de Ciencias Biológicas IPN, México 11340 D.F México.; <sup>2</sup>Area de Química, Universidad Autónoma Metropolitana, Av. San Pablo 280, México 02200 D.F <sup>3</sup>

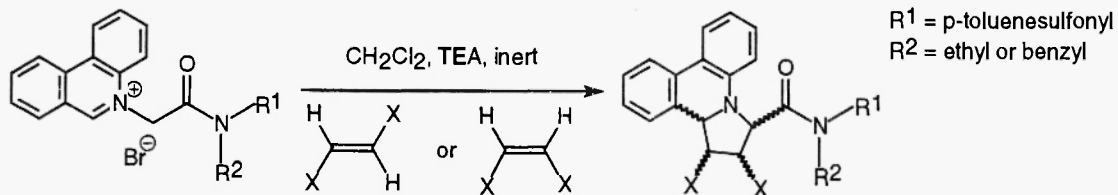
Heterocycl. Commun. 7 (2001) 213-222

### STEREOCHEMISTRY OF 1,3-DIPOLAR CYCLOADDITION REACTION OF AZOMETHINE YLIDES DERIVED FROM *N*-ALKYL-*N*-(4-TOLUENESULFONYL) CARBAMOYL METHYL PHENANTHRIDINIUM WITH OLEFINIC DIPOLAROPHILES

Martin Travníček<sup>a</sup>, Milan Potáček<sup>a\*</sup>, Albrecht Mannschreck<sup>b</sup>

<sup>a</sup>Department of Organic Chemistry, Faculty of Sciences, Masaryk University of Brno, Czech Republic

<sup>b</sup>Department of Organic Chemistry, University of Regensburg, Federal Republic of Germany



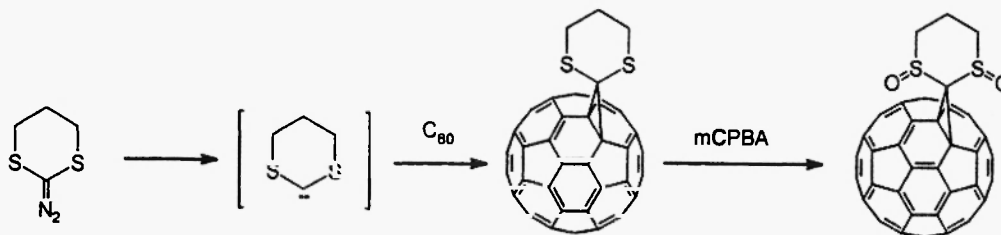
Heterocycl. Commun. 7 (2001) 223-226

### CYCLOADDITION REACTION OF $\text{C}_{60}$ WITH 2-DIAZO-1,3-DITHIANE AND OXIDATION OF THE CYCLOADDUCT TO SULFOXIDE DERIVATIVES

H. Ishida,<sup>a</sup> H. Asaji,<sup>a</sup> K. Itoh,<sup>a</sup> and M. Ohno<sup>b</sup>

<sup>a</sup> Department of Molecular Design and Engineering, Graduate School of Engineering, Nagoya University, Chikusa, Nagoya 464-8603, Japan

<sup>b</sup> Department of Materials Science and Engineering, Toyota Technological Institute, 2-12-1 Hisakata, Tempaku, Nagoya 466-8511, Japan

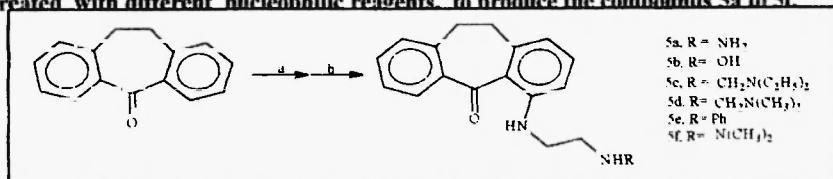


**ANALOGUES OF ANTIDEPRESSANTS - SYNTHESIS OF NEW 4-AMINE DERIVATIVES OF 10,11-DIHYDRO-5H-DIBENZO[a,d]CYCLOHEPTANE**

Heterocycl. Commun. 7 (2001) 227-232

Gilberto A. Romeiro\* and Paulo Roberto C. Martins; Universidade Federal Fluminense, Instituto de Química - GQO/CEG, Campus do Valonguinho S/N, Niteroi, CEP 24210-150, RJ, Brazil.

In this paper the synthesis of six new 10,11-dihydro-5H-dibenzo[a,d]cycloheptane derivatives, analogues of antidepressants agents are reported. The preparation involved the initial introduction of the iodine atom in the position 4 of the dibenzosuberone to give the iodinated compound, which was then treated with different nucleophilic reagents to produce the compounds 5a to 5f.



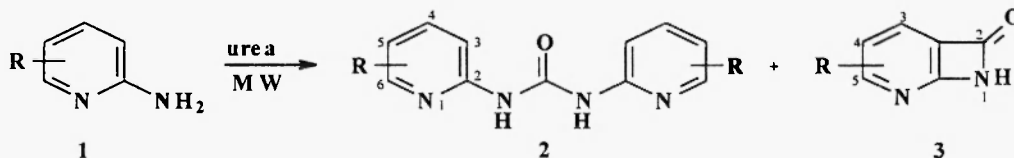
Heterocycl. Commun. 7 (2001) 233-236

**A PRACTICAL SYNTHESIS OF UREAS FROM 2-AMINOPICOLINES USING MICROWAVE IRRADIATION.**

J. E. Charris<sup>a\*</sup>, J. N. Domínguez<sup>a</sup>, S. E. López<sup>b</sup>.

<sup>a</sup>Laboratorio de Síntesis Orgánica, Facultad de Farmacia, Universidad Central de Venezuela, Aptdo. 47206, Los Chaguaramos 1041-A, Caracas, Venezuela <sup>b</sup> Departamento de Química, Universidad Simón Bolívar, Caracas, Venezuela.

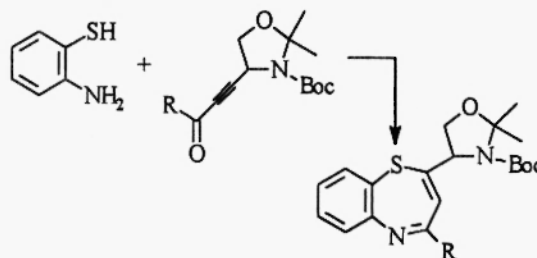
Several symmetrically disubstituted ureas are synthesized by heating of urea with 2-aminopicoline analogues under environmentally benign conditions without any solvent in a conventional microwave oven.



Heterocycl. Commun. 7 (2001) 237-242

**Benzothiazepine fused heterocycles IV : A convenient synthesis of benzo[b][1,5]thiazepines using MCH-41(H) zeolite**

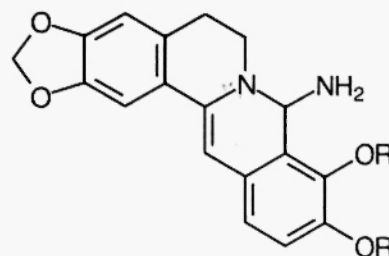
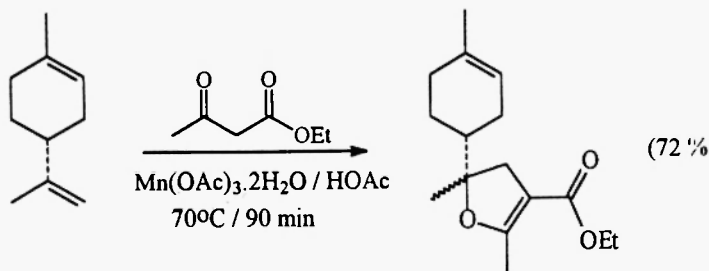
Simple and convenient procedures have been developed for the synthesis of Benzo[b][1,5]thiazepines using MCM-41(H) zeolite in acetonitrile at reflux temp.



Lingaiah Nagarapu,\* Narender Ravirala and Dattatray Akkewar

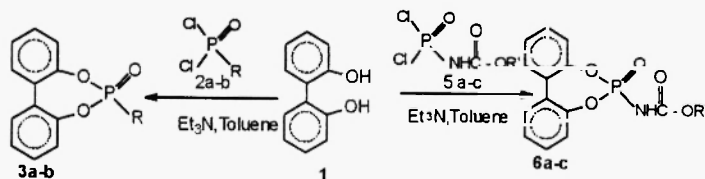
**BERBERINE AND COPTISINE IN LIQUID AMMONIA**Stanislav Man<sup>1</sup>, Jirí Dostál<sup>2</sup>, Marek Necas<sup>3</sup>, Zdirad Zák<sup>3</sup> and Milan Potáček<sup>1\*</sup>

<sup>1</sup>Department of Organic Chemistry, Faculty of Science, Masaryk University, Kotlarska 2, CZ-611 37 Brno, Czech Republic. <sup>2</sup>Department of Biochemistry, Faculty of Medicine, Masaryk University, Brno, Czech Republic. <sup>3</sup>Department of Inorganic Chemistry, Faculty of Science, Masaryk University, Brno, Czech Republic

**TRANSITION METAL SALTS MEDIATED OXIDATIVE RADICAL ADDITION OF ETHYL ACETOACETATE TO LIMONENE**Marcio C.S. de Mattos<sup>\*\*</sup>, Soraia P.L. de Souza<sup>a</sup> and Simone M. Elias<sup>b</sup><sup>a</sup>Instituto de Química, Departamento de Química Orgânica, UFRJ, C.P. 68545, 21945-970, Rio de Janeiro, Brazil<sup>b</sup>Instituto de Química, UERJ, Rio de Janeiro, Brazil**SYNTHESIS AND CHARACTERIZATION OF 6-SUBSTITUTED DIBENZO [d,f] [1,3,2] DIOXAPHOSPEPIN 6-OXIDES****K. Ananda Kumar, C. Suresh Reddy\*, L. Nagaprasada Rao and C. Naga Raju**

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

The title compounds (3a, 3b & 6a-c) were synthesized by reacting 2,2'-dihydroxybiphenyl (1) with trichloromethylphosphonic dichloride (2a)/O-2-Chloroethyl phosphoryldichloride (2b) and dichlorophosphinyl carbamates (5a-c) in presence of triethylamine in dry toluene as solvent.

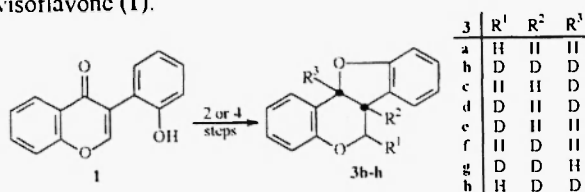


SYNTHESIS OF DEUTERIUM  
LABELED PTEROCARPANS

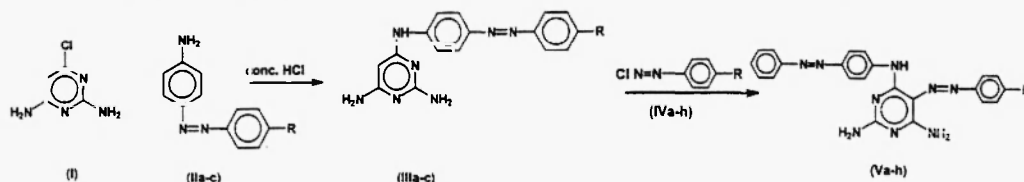
E. Tóth, Z. Dinya, L. Szilágyi, S. Antus\*

Department of Organic Chemistry, University of Debrecen, P.O.Box 20, H-4010 Debrecen, Hungary

A simple synthesis of the deuterium labeled pterocarpans 3b-h has been achieved by the stereocontrolled transformation of 2'-hydroxyisoflavone (1).

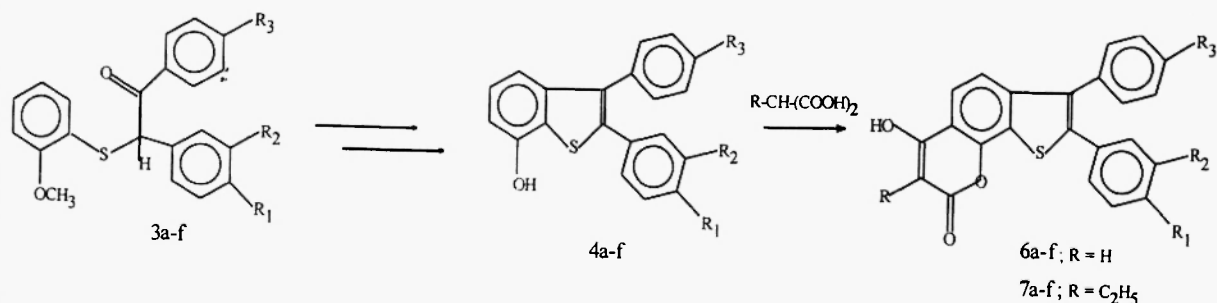
SYNTHESIS OF SOME NEW 2,6-DIAMINO-4-(P-ARYLAZO)ANILINO-  
PYRIMIDINE AND SOME RELATED 5-ARYLAZOPYRIMIDINE DERIVATIVES FOR DYEING SYNTHETIC FIBRESH.H. Abdel-Razik<sup>a\*</sup>, Hala M. Refat<sup>b</sup> and M.E.A. Zaki<sup>c</sup><sup>a</sup> Chemistry Department, Faculty of science, Mansoura University, New Damietta 34517-130, Egypt<sup>b</sup> Chemistry Department, Faculty of Education at Al-Arish, Suez Canal University, Egypt<sup>c</sup> National Research Centre, Cairo, Egypt

Synthesis of some 2,6-diamino-4-(p-arylaazo)anilinopyrimidine (IIIa-c) and 2,6-diamino-5-(arylaazo)-4-(p-arylaazo)anilinopyrimidine (IVa-h) are described. The effects of the nature and orientation of the substituents on the colour and dyeing properties of these dyes on polyester and acrylic fibres were evaluated.

FACILE SYNTHESIS OF SUBSTITUTED 4-HYDROXY  
COUMARINOBENZOTHIOPHENES

P.Naveen Kumar, B.Prasanna and G.V.P.Chandramouli\*

Dept. of Chemistry, Regional Engineering College, Warangal India 506 004.

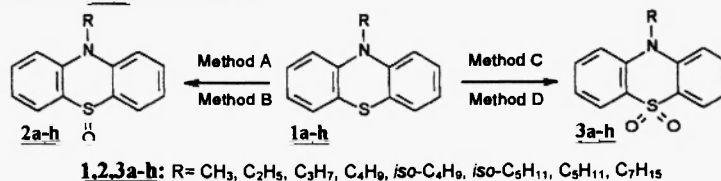


### SELECTIVE OXIDATION METHODS FOR PREPARATION OF N-ALKYLPHENOTHIAZINE SULFOXIDES AND SULFONES

Monica Toşa<sup>1</sup>, Csaba Paizs<sup>1</sup>, Cornelia Majdik<sup>1</sup>, László Poppe<sup>2</sup>, Pál Kolonits<sup>2</sup>, Ioan Silberg<sup>3</sup>, Lajos Novak<sup>4</sup>, Florin-Dan Irimie<sup>1</sup>

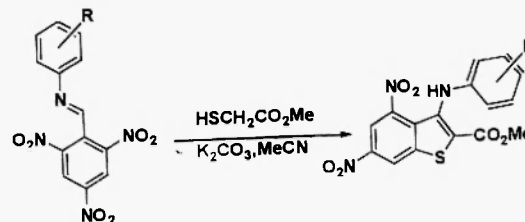
<sup>1</sup> Department of Biochemistry and Biochemical Engineering, Babes-Bolyai University, Cluj-Napoca, Romania; <sup>2</sup> Institute for Organic Chemistry, Budapest University of Technology and Economics, Budapest, Hungary; <sup>3</sup> Department of Organic Chemistry, Babes-Bolyai University, Cluj-Napoca, Romania

**Abstract:** Efficient and selective oxidation methods for preparation of *N*-alkylphenothiazine sulfoxides **2a-h** and sulfones **3a-h** starting from *N*-alkylphenothiazines **1a-h** are described.



### Synthesis of 3-Arylamino-4,6-Dinitrobenzo[b]thiophene-2-methylcarboxylates. Smooth Dehydrogenation of 2,3-Dihydrobenzo[b]thiophene Derivatives.

Valentina I. Gulevskaya, Alexander M. Kuvshinov and Svyatoslav A. Shevelev<sup>\*</sup>  
N. D. Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences,  
Leninsky prospekt 47, 117913, Moscow, Russia. Fax +7(095) 135 5328;  
E-mail: shevelev@cacr.ioc.ac.ru



### SYNTHESIS OF SOME TRICYCLIC AND TETRACYCLIC RING SYSTEMS BUILT ON 4-HYDROXY-2-QUINOLONES

Narsinh Dodia and Anamik Shah<sup>\*</sup>

Department of Chemistry, Saurashtra University, Rajkot- 360 005, INDIA.

Few substituted 4-hydroxy-2-quinolones were reacted with cinnamionitrile to afford fused pyrano [3,2-*c*] quinolines. They were further subjected to ring formation by means of acetic anhydride with or without pyridine.

