

## Graphical Abstracts

Heterocycl. Commun. 8 (2002) 521-530

### Synthesis of Novel Thiazole-containing Bis-1-Chloromethyl-5-hydroxy-1,2-dihydro-3H-benz[e]indole (*seco*-CBI)-Polyamide Conjugates as Anticancer Agents

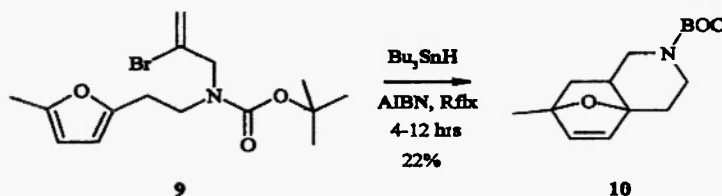
Rohtash Kumar, Dinesh Rai, Simon Ching Chun Ko and J. William Lown\*  
Department of Chemistry, University of Alberta, Edmonton, AB, Canada, T6G 2G2

The synthesis of novel thiazole-containing bis-1-chloromethyl-5-hydroxy-1,2-dihydro-3H-benz[e]indole (*seco*-CBI)-polyamide conjugates (23-25 and 29-31) as anticancer agents is described.

Heterocycl. Commun. 8 (2002) 531-536

### PREPARATION OF TRICYCLIC NITROGEN HETEROCYCLE VIA INTRAMOLECULAR DIELS-ALDER REACTION

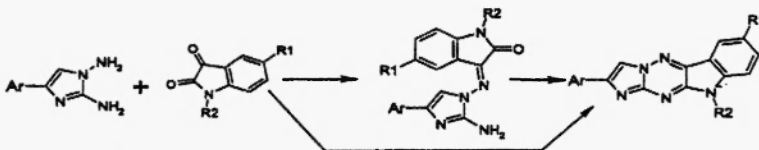
Aydm Demircan<sup>ab</sup> and Philip J. Parsons<sup>a\*</sup>



Heterocycl. Commun. 8 (2002) 537-542

### CONDENSATION OF 1,2-DIAMINOIMIDAZOLES WITH ISATINS

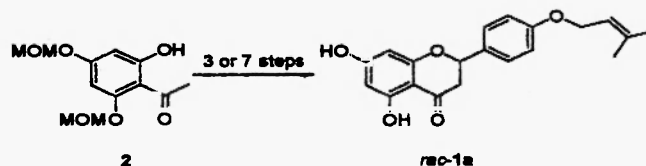
Alexandre Ivachtchenko,\* Alexander Manaev, Elena Poutsykine, Iouri Poutsykine,  
Valeri Traven, and Dina Ugoleva  
Chemical Diversity Labs. Inc., 11575 Sorrento Valley Rd., S.211, San Diego, CA 92121,  
USA; The Mendelev University of Chemical Technology of Russia, Moscow, Russia.



Heterocycl. Commun. 8 (2002) 543-548

### A SIMPLE SYNTHESIS OF SELINONE, AN ANTIFUNGAL COMPONENT OF *MONOTES ENGLERI*

Ágnes Kenéz, László Juhász and Sándor Antus\*  
Department of Organic Chemistry, University of Debrecen, P.O. Box 20, H-4010 Debrecen, Hungary

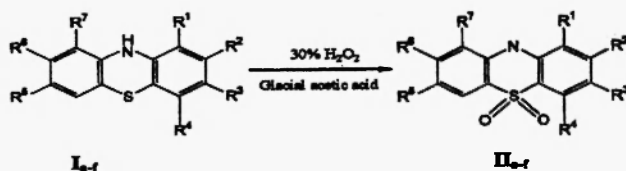


The new synthesis of racemic *selinone* (*rac*-1a) possessing antifungal activity has been accomplished by two routes starting from MOM-protected phloracetophenone (2)

## SYNTHESIS OF 7-BROMO/8,9-DIMETHYLPHENOTHIAZINE SULFONES

P.R. Sharma, Rajni Gupta, Vandana Gupta, D.C. Gautam and R.R. Gupta\*  
 Department of Chemistry, University of Rajasthan, Jaipur – 302 004, INDIA  
 e-mail : rrg\_vg@yahoo.co.in; dr\_vandana27@yahoo.co.in

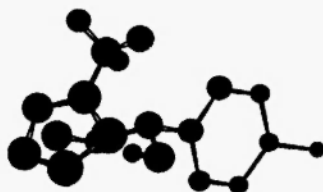
7-Bromo/8,9-dimethylphenothiazines-5,5-dioxide (**II<sub>a-f</sub>**) has been prepared by treating phenothiazine with 30% hydrogen peroxide in glacial acetic acid.



## AN UNEXPECTED PREFERRED CROWDED CONFORMATION

## IN 1-ARYL-2-(3-METHYL-1,2,4-TRIAZOL-4-YL)ETHANOL DERIVATIVES

Héctor Salgado-Zamora,\* Alicia Reyes, Oscar Terrón, Ma Elena Campos, Rogelio Jiménez, and Hugo Jiménez. Departamento de Química Orgánica, Escuela Nacional de Ciencias Biológicas IPN, México 11340 D.F México



A sterically crowded conformation in solution for 1-aryl-2-(3-methyl-1,2,4-triazol-4-yl)ethanol derivatives **3** was suggested from spectroscopic data. The X-ray diffraction analysis of structures **3a** and **3d** confirmed the unexpected synclinal conformations for these products in the solid state.

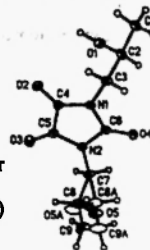
## BIS(HYDROXYALKYLATED) DERIVATIVES OF PARABANIC ACID

Iwona Zarzyka-Niemiec,<sup>a</sup> Jacek Lubczak,<sup>\*\*</sup> Zbigniew Ciunik,<sup>b</sup> Stanisław Wołowicz,<sup>a,b</sup> and Tomasz Ruman<sup>a</sup>

<sup>a</sup> Faculty of Chemistry, Rzeszów University of Technology,  
 6 Powstańców Warszawy Ave., 35-959 Rzeszów, Poland

<sup>b</sup> Faculty of Chemistry, University of Wrocław, 14 Joliot-Curie Str.,  
 50-383 Wrocław, Poland

Parabanic acid reacts with formaldehyde, ethylene oxide, and propylene oxide under mild conditions to give hydroxyalkylated derivatives. The products were isolated in high yields from the stoichiometric reaction mixtures. The N,N'-bis(hydroxymethyl)parabanate (**1**), N,N'-bis(hydroxyethyl)parabanate (**2**), and N,N'-bis(2-hydroxypropyl)parabanate (**3**) were identified on the basis of IR, <sup>1</sup>H, and <sup>13</sup>C NMR spectroscopy and X-ray crystallography for **3**.



### AMINOALKYLPYRIDINES 3: SYNTHESIS OF PYRIDYL SUBSTITUTED HYDRAZINES BY BORANE REDUCTION OF HYDRAZONES

Zhaiwei Lin and P.K. Kadaba\*, K and K Biosciences, Inc., 2504 Century Lane, Chadds Ford, PA 19317, USA

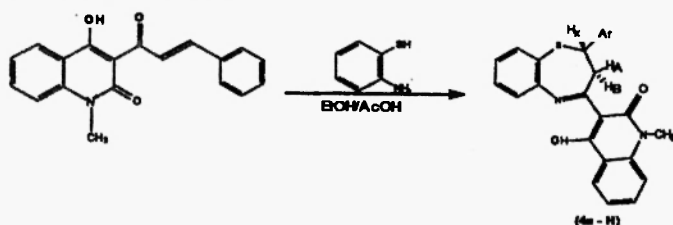


### SYNTHESIS OF NOVEL 1,5 - BENZOTHAZEPINES CONTAINING 2H(1)QUINOLIN-2-ONE

Organic Chemistry Division II, ICT, Hyderabad

K. Sucheta and B. Vittal Rao\*

Novel 1,5-benzothiazepine derivatives have been synthesised from propenones and 2-aminothio phenol. Some of them have Shown very good anti-bacterial activity.

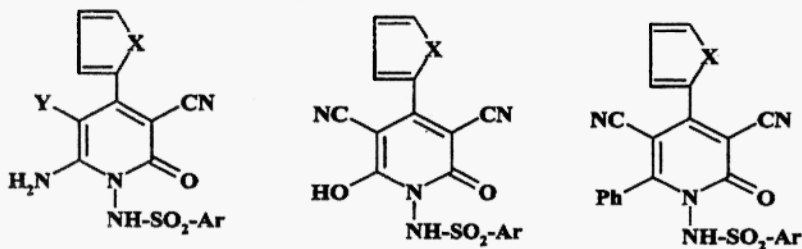


### REGIOSELECTIVE SYNTHESIS OF A NEW CLASS OF N-ARYLSULFONYLAMINATED BIHETEROCYCLES

Galal Hamza Elgemeie\* and Shahinaz Hassan Sayed

Chemistry Department, Faculty of Science, Helwan University, Ain-Helwan, Cairo, Egypt

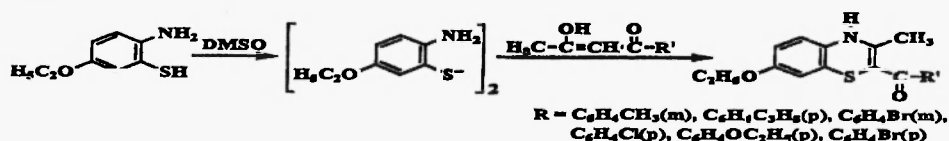
A novel and efficient method for the synthesis of a new variety of novel N-arylsulfonylamino derivatives of biheterocycles by the reaction of N-cyanoaceto-arylsulphonylhydrazides with  $\alpha,\beta$ -unsaturated nitriles. The synthetic potential of the method is demonstrated.



## SYNTHESIS OF 7-ETHOXY-3-METHYL-4H-1,4-BENZOTHAZINES

Thandi Lal Kachhee, Vandana Gupta, Rajani Gupta and D.C. Gmstam  
Department of Chemistry, University of Rajasthan, Jaipur-302004 (India).  
E-mail : rrg\_vg@yahoo.co.in; dr\_vandana27@yahoo.co.in

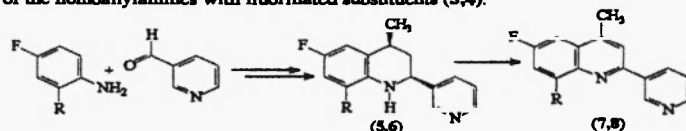
Synthesis of 4H-1,4-benzothiazines is reported by the condensation of 5-ethoxy-2-aminobenzethiol with  $\beta$ -diketones in DMSO. 2-Aminobenzenethiol readily oxidized to bis-(2-aminophenyl)disulfides which on reaction with  $\beta$ -diketones cyclize to 4H-1,4-benzothiazines via intermediate formation of enaminoketones.



## 4-N-ARYL(BENZYL)AMINO-4-HETARYL-1-BUTENES AS BUILDING BLOCKS IN HETERO-CYCLIC SYNTHESIS. 3. A SIMPLE SYNTHESIS OF FLUORINATED 4-METHYL-2-(3-PYRIDYL)-1,2,3,4-TETRAHYDROQUINOLINES AND THEIR RESPECTIVE QUINOLINES

Leonor Y. Vargas Méndez, Vladimir Kouznetsov  
Laboratory of Fine Organic Synthesis, Research Center for Biomolecules, School of Chemistry, Industrial University of Santander, A.A. 678, Bucaramanga, Colombia

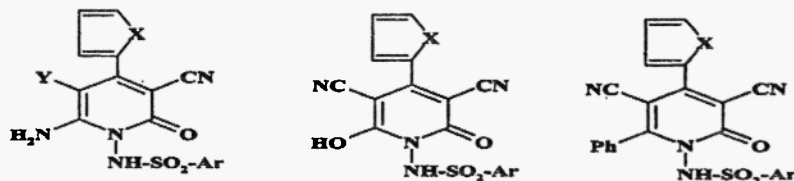
6-Fluoro- and 6,8-difluoro-4-methyl-2-(3-pyridinyl)-1,2,3,4-tetrahydroquinolines (5,6) and their respective quinolines (7,8) were obtained by a two or three step synthesis, starting from the corresponding aldimines (1,2) prepared from 4-fluoro- or 2,4-difluoroanilines and 3-pyridinecarboxaldehyde via a sequence of reactions that included nucleophilic addition of Grignard reagents to the aldimines and an acid-mediated intramolecular cyclisation of the homocyclic amines with fluorinated substituents (3,4).



## REGIOSELECTIVE SYNTHESIS OF A NEW CLASS OF N-ARYLSULFONYLAMINATED BIHETEROCYCLES

Galal Hamza Elgemeie<sup>\*</sup> and Shahinaz Hassan Sayed  
Chemistry Department, Faculty of Science,  
Helwan University, Ain-Helwan, Cairo, Egypt

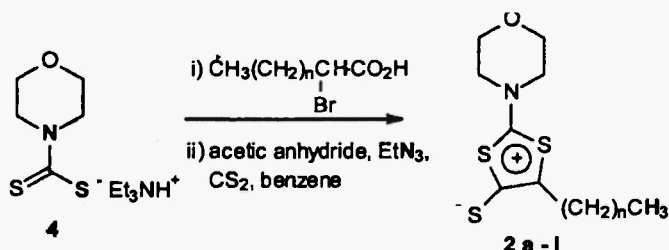
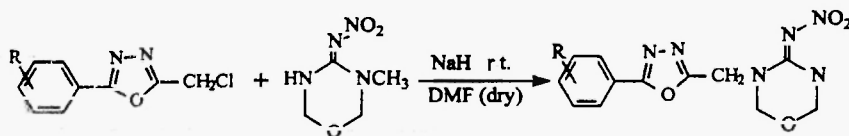
A novel and efficient method for the synthesis of a new variety of novel N-arylsulfonylamino derivatives of biheterocycles by the reaction of N-cyanoaceto-arylsulphonylhydrazides with  $\alpha,\beta$ -unsaturated nitriles. The synthetic potential of the method is demonstrated.



**MESOIONIC 5-ALKYL-1,3-DITHIOLIUM-4-THIOLATES: SYNTHESIS AND BRINE SHRIMP TOXICITY**

Paulo Afonso de Almeida, Tânia Maria Sarmiento da Silva and Aurea Echevarria\*

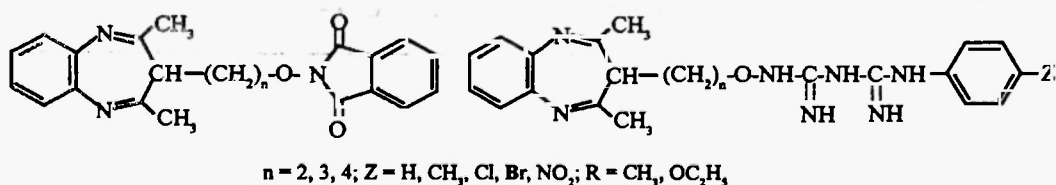
Departamento de Química, ICE, Universidade Federal Rural do Rio de Janeiro, 23851-970, Seropédica (RJ) Brazil

**Synthesis and Insecticidal Activity of Neonicotinoids Derivatives**Bing Chai<sup>a</sup>, Song Cao<sup>a</sup>, Haidong Liu<sup>a</sup>, Gonghua Song<sup>a</sup>, Xuhong Qian<sup>b\*</sup><sup>a</sup>Institute of Pesticides and Pharmaceuticals, East Chin University of Science and Technology, P.O. Box 544, 130 Meilong Road, Shanghai 200237, PR China<sup>b</sup>State Key Laboratory of Fine Chemicals, Dalian University of Technology, Dalian 116012, PR China**SYNTHESIS OF 3-ALKOXY-(SUBSTITUTED ARYL) BIGUANIDINO-4-METHYL-2,3-DIHYDRO (1H)-1,5-BENZODIAZEPINE-2-ONES AND RELATED COMPOUNDS**

Lalit Kumar Baregama, Bhawani Singh and G.L. Talesara\*

University Department of Chemistry M. L. Sukhadia University Udaipur-313 001 (Raj.), India

Condensation of 3-alkoxyphthalimidopentane 2,4-dione **5a-c**, 3-alkoxyaminopentane 2,4-dione salts **7a-c**, and 3-alkoxy 5-(*p*-substituted aryl) biguanidinopentane 2,4-diones **10a-o** with *o*-phenylenediamine in xylene gave the corresponding 3-alkoxyphthalimido 2,4-dimethyl (3H) 1,5-benzodiazepines **6a-c**, 3-alkoxyamino 2,4-dimethyl (3H) 1,5-benzodiazepines **8a-c**, 3-alkoxy (*p*-substituted aryl) biguanidino 2,4-dimethyl (3H) 1,5-benzodiazepines **11a-o**.



**SYNTHESIS OF THE NEW SERIES OF NOVEL HETEROCYCLIC SKELETON  
ISOXAZOLO [4,5-c] 1,2,4-TRIAZINES AND NEW SERIES OF THE  
PYRAZOLO [4,3-c] 1,2,4-TRIAZINES.**

Tomáš Gucký, Karel Nálepa and Iveta Wiedermannová

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