

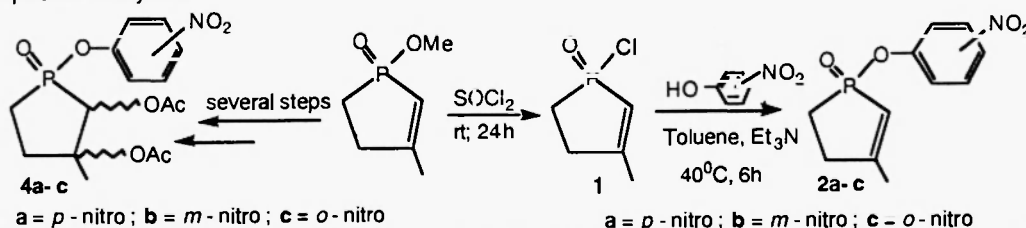
## Graphical Abstracts

Heterocycl. Commun. 6 (2000) 291-294

### SYNTHESIS OF NOVEL NITRO-SUBSTITUTED 1-PHENOXY-2-PHOSPHOLENES AND PHOSPHOLANES

Mitsuji Yamashita,\* Valluru Krishna Reddy, Tatsuo Oshikawa, and Masaki Takahashi  
Department of Materials Chemistry, Faculty of Engineering, Shizuoka University, Hamamatsu 432-8561, Japan

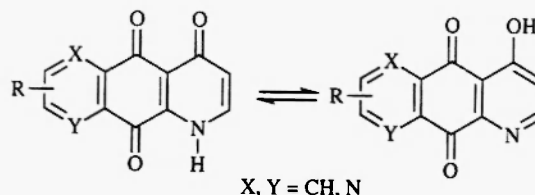
**Abstract:** Some novel nitro-substituted phenoxyphospha sugar derivatives which are possessing phosphorus ester functionality ( $O=P-O-$ ) with a nitrophenyl group were synthesized from the corresponding 2-phospholenes. These derivatives are structurally confirmed by spectral analyses.



Heterocycl. Commun. 6 (2000) 295-300

### Electrochemical Evidence for Oxo-Enol Tautomerism of Azaanthracene-4,9,10- triones.

*M<sup>a</sup> del Mar Blanco, Alicia Marcos, M. Asunción Ruiz, Carmen Avendano, J. Carlos Menéndez, Carmen Pedregal, José M. Pingarrón*

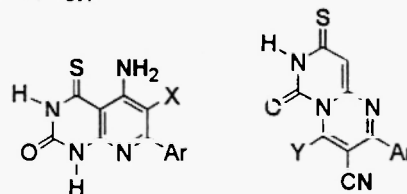


Heterocycl. Commun. 6 (2000) 301-307

### A CONVENIENT ONE POT SYNTHESIS OF PYRIDO-[2,3-d]PYRIMIDINES AND PYRIMIDO[2,3-c]PYRIMIDINES ( $N_5$ -DEAZAPETRINS)

Ramadan A. Mekheimer, Hisham A. Abd El-Nabi, Afaf M. Abd-Elhameed and Kamal U. Sadek  
Chemistry Department, Faculty of Science, El-Minia University, 61519 El-Minai, Egypt.

One pot synthesis of pyrido[2,3-d]pyrimidines and pyrimido[2,3-c]-pyrimidines is reported involving the reaction of 6-amino-2-oxo-4-thioxotetrahydropyrimidine with cinnamionitriles.



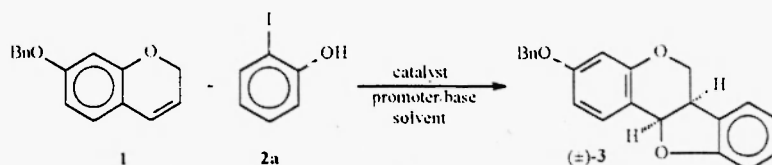
## A CONVENIENT SYNTHESIS OF PTEROCARPANS

Heterocycl. Commun. 6 (2000) 309-314

L. Kiss, S. Antus\*

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

A new variation of the Heck-oxyarylation of **1** has been developed using the  $[\text{Pd}(\text{OAc})_2 / \text{Ph}_3\text{P} / \text{Ag}_2\text{CO}_3\text{-CaCO}_3]$  catalyst system.



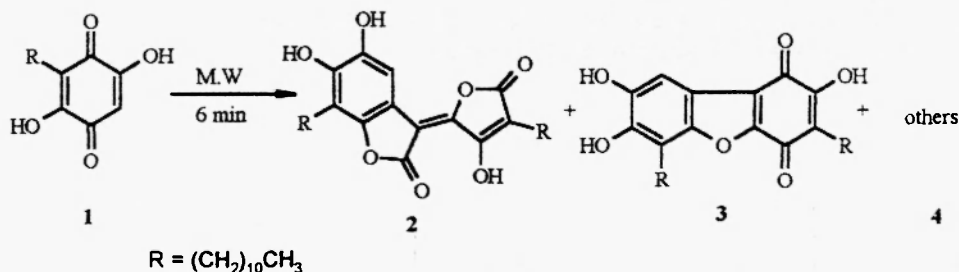
Heterocycl. Commun. 6 (2000) 315-318

## MICROWAVE IRRADIATION OF EMBELIN AND EVALUATION OF ANTIBACTERIAL ACTIVITY

V. Ravikanth<sup>1</sup>, P. Ramesh<sup>2</sup>, P. V. Diwan<sup>1</sup> and Y. Venkateswarlu<sup>2\*</sup>

<sup>1</sup>Pharmacology Division, <sup>2</sup>Natural Products Laboratory

Indian Institute of Chemical Technology, Hyderabad 500 007, India.

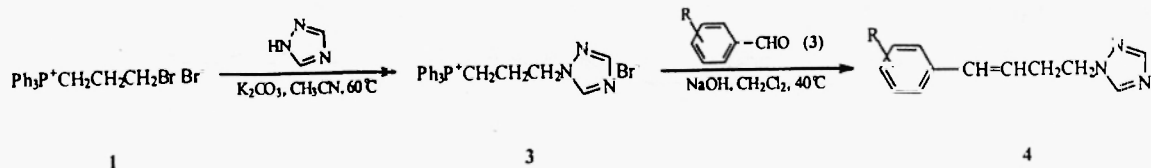


Heterocycl. Commun. 6 (2000) 319-322

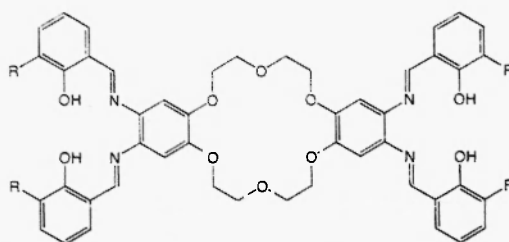
## A NOVEL AND EFFICIENT METHOD FOR THE SYNTHESIS OF $\beta$ -TRIAZOLYLALKENES VIA THE PHASE TRANSFER CATALYZED WITTIG REACTION

Shui-Ming Lu\* Department of Chemistry, Central China Normal University, Wuhan, Hubei 430079, P. R. China. Wen-Jing Xiao and Wen-Fang Huang Institute of Organic Synthesis, Central China Normal University, Wuhan, Hubei 430079, P. R. China

N-Alkylation of phosphonium salt **1** with 1H-1, 2, 4-triazole gave  $\gamma$ -triazolylpropyltriphenylphosphonium bromide **2**, which reacted with aromatic aldehydes **3** under the phase transfer conditions to afford  $\beta$ -triazolylalkenes **4**.

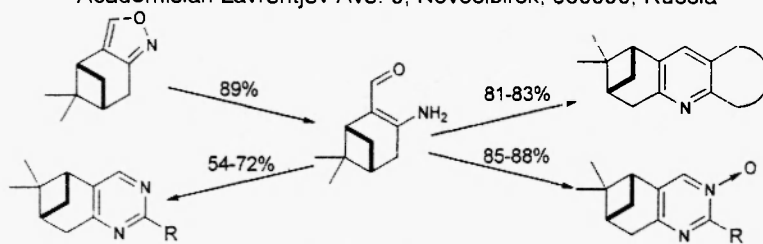


## SYNTHESIS AND CHARACTERISATION OF DIBENZO-18-CROWN-6 ETHERS WITH APPENDED SCHIFF BASES

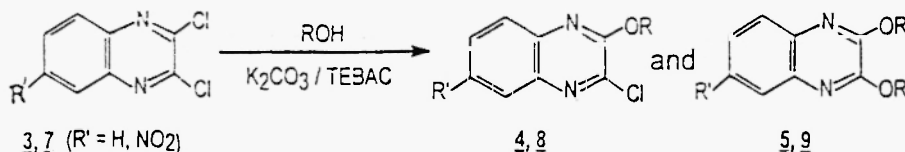
C. Sousa,<sup>a</sup> J. E. Borges,<sup>b</sup> C. Freire,<sup>a</sup> C. Romão,<sup>b</sup> B. Castro<sup>\*a</sup><sup>a</sup>CEQUP/Departamento de Química, Faculdade de Ciências, Universidade do Porto, 4169-007 Porto, Portugal<sup>b</sup>Instituto de Tecnologia Química e Biológica, Universidade Nova de Lisboa, 2781-901 Oeiras, PortugalHETEROANNELATIONS WITH PINANE-DERIVED  $\beta$ -ENAMINOALDEHYDE.

Sergey A. Popov, Alexey V. Tkachev\*

Novosibirsk State University.

Novosibirsk Institute of Organic Chemistry, Siberian Branch of Russian Academy of Sciences  
Academician Lavrentjev Ave. 9, Novosibirsk, 630090, Russia

## A Facile Synthesis of Mono and Dialkoxyquinoxalines

Harihara V S Krishnan<sup>a</sup>, Srinivasulu K Chowdary<sup>a</sup>, Pramod K Dubey<sup>a,b</sup>, Andra Naidu<sup>b</sup> & Vijaya Sunkara<sup>a</sup>.<sup>a</sup>Dr Krishnan's Laboratories, Plot No.99, Prasanna nagar, Kukatapally Industrial Area, Hyderabad, A.P., India - 500 072.<sup>b</sup>Department of Chemistry, College of Engineering, J.N.T. University, Kukatapally, Hyderabad, A.P., India - 500 072.A facile synthesis of mono and dialkoxyquinoxalines using  $K_2CO_3$  as base and TEBAC as phase-transfer catalyst is described.

**SUCESSEFUL APPROACHE FOR THE SYNTHESIS OF NEWLY FUSED HETEROCYCLIC COMPOUNDS INCORBORATING PHENYLPERINAPHTHENONE AND NAPHRIDINE DERIVATIVES.**

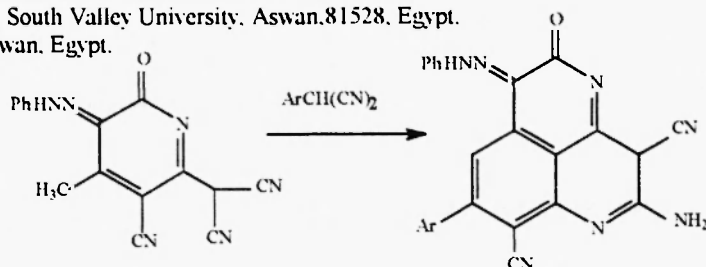
Heterocycl. Commun. 6 (2000) 339-344

Magad A Barsy<sup>1</sup>, Ali K. Khalafallah<sup>1</sup>, Mohamed E. Hassan<sup>1</sup> and Ahmed. A. Rczk<sup>2</sup>

<sup>1</sup>Department of Chemistry, Faculty of Science, South Valley University, Aswan, 81528, Egypt.

<sup>2</sup>High Dame Lake Development Authority, Aswan, Egypt.

New fused heterocyclic azines were obtained starting from hydrazopyridine derivative.



Heterocycl. Commun. 6 (2000) 345-350

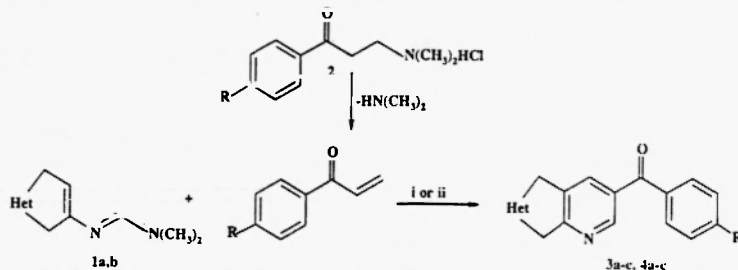
**Synthesis of Pyrazolo[3,4-b]pyridines and Pyrido[2,3-d]pyrimidinones by Hetero-Diels-Alder Reaction of Pyrazolyl- and Pyrimidinillimines under Microwave Irradiation in Dry Media**

Jairo Quiroga<sup>1\*</sup>, Braulio Insuasty<sup>1</sup>, Rodrigo Abonía<sup>1</sup>, Pedro Hernandez<sup>1</sup>, Manuel Nogueras<sup>2\*</sup> and Adolfo Sanchez<sup>2</sup>

<sup>1</sup>Grupo de Investigación de Compuestos Heterocíclicos, Departamento de Química, Universidad del Valle.

A. A. 25360, Cali – Colombia

<sup>2</sup>Department of Inorganic and Organic Chemistry, Universidad de Jaen, 23071 Jaen, Spain.



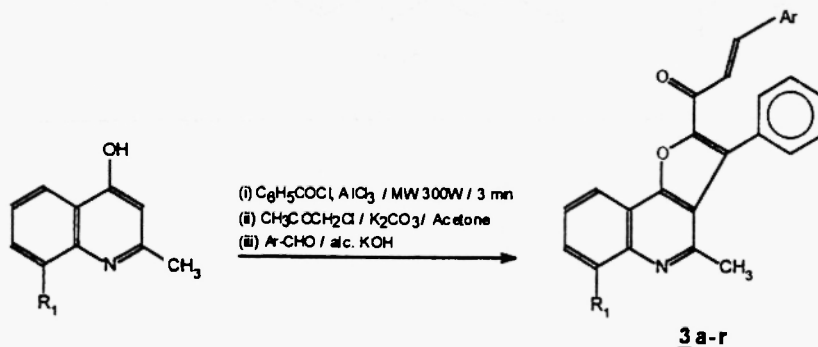
**Facile synthesis of 2-Cinnamoyl-4-methyl / 4,6-Dimethyl-3-phenyl-furo[3,2-C]Quinolines as marked anti microbial agents**

Heterocycl. Commun. 6 (2000) 351-356

Y. Thirupathi Reddy, M. Kanakalingeswara Rao and B. Rajitha\*

Department of Chemistry, Regional Engineering College, Warangal, INDIA

A comparative study of 3-benzoyl-4-hydroxy-2-methyl / 2,8-Dimethyl-Quinolines under conventional and microwave irradiation and on subsequent synthesis of furo quinolino chalcones were given.

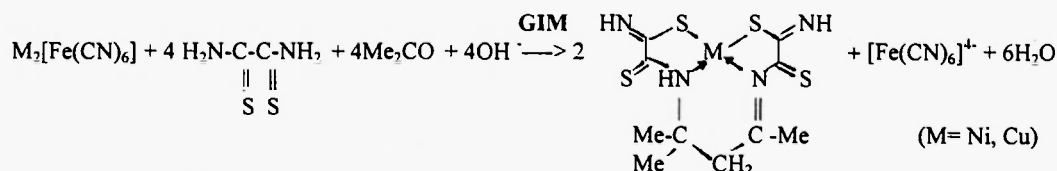


# **Ni(II)- AND Cu(II)- CONTAINING HETEROCYCLIC COMPOUNDS WITH 4,4',6-TRIMETHYL -2,8-DITHIO -3,7-DIAZANONEN- 6-DITHIOAMIDE-1,9 OBTAINED IN GELATIN-IMMOBILIZED MATRICES IN THE TEMPLATE SYNTHESIS PROCESS**

Oleg V. Mikhailov\*, Marina A. Kazymova<sup>#</sup>, Tatyana A. Shumilova<sup>#</sup> and Laisan R. Vafina<sup>#</sup>

\*Kazan State Technological University, K.Marx Street 68, 420015 Kazan, Russia

<sup>#</sup> Kazan State University, Kremlin Street 18, 420008 Kazan, Russia

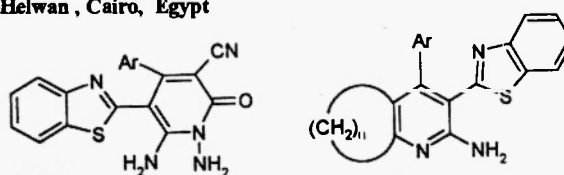


## **NOVEL SYNTHESIS OF N-AMINO-2-PYRIDONES AND CYCLOALKANE RING-FUSED PYRIDINES CONTAINING BENZOTHIAZOLE MOIETY**

G. H. Elgemeie \*, H. Z. Shams, Y. M. Elkholy and N. S. Abbas

Chemistry department , Faculty of science , Helwan university , Ain-Helwan , Cairo, Egypt

A variety of new N-amino-2-pyridone and cycloalkane ring-fused pyridine derivatives containing benzothiazole moiety could be prepared.



## **SYNTHESIS OF 3-BROMO-1-METHYLPHENOTHIAZINES BY SMILES REARRANGEMENT**

Naveen Gautam, Rajni Gupta, D.C. Gautam and R.R. Gupta

Department of Chemistry, Univeristy of Rajasthan, Jaipur-302004 (INDIA)

Synthesis of title compound is reported via Smiles rearrangement

