

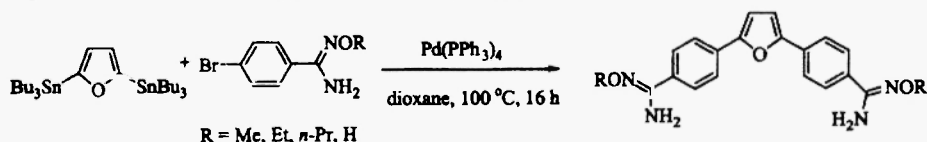
Graphical Abstracts

Heterocycl. Commun. 9 (2003) 117-118

A FACILE SYNTHESIS OF THE PRODRUG 2,5-BIS(4-O-METHOXYAMIDINOPHENYL)FURAN AND ANALOGS.

Mariappan Anbazhagan and David W. Boykin*

Department of Chemistry, Georgia State University, Atlanta, GA, 30303, USA



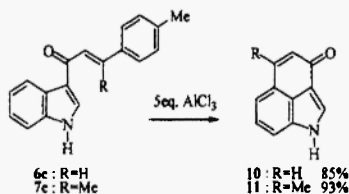
Heterocycl. Commun. 9 (2003) 119-122

EFFICIENT SYNTHESIS OF BENZ[c,d]INDOL-3(1H)-ONE DERIVATIVES BY INTRAMOLECULAR CYCLIZATION OF 3-(4'-METHYLCINNAMOYL)INDOLES AND SUBSEQUENT ELIMINATION OF TOLUENE.

Taichi Komoda and Shin-ichi Nakatsuka*

The United Graduate School of Agricultural Science,
Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan

Benz[c,d]indol-3(1H)-one 10 and 11, a major part of indole alkaloids 0231A 2 and 0231B 3 produced by *Streptomyces* sp. HK10231, new enzyme inhibitors of 3 α -hydroxysteroid dehydrogenase, were efficiently synthesized by cyclization of 3-(4'-methylcinnamoyl)indole derivatives 6c and 7c and elimination of toluene.



Heterocycl. Commun. 9 (2003) 123-127

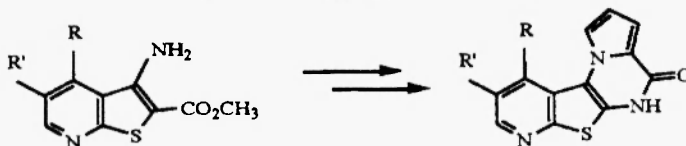
SYNTHESIS OF NEW PYRIDO [3',2':4,5]THIENO[2,3-e]PYRROLO[1,2-a]PYRAZINES

Mina AADIL^{a,b}, Gilbert KIRSCH^{a*}

^aLaboratoire de Chimie Bioorganique et Analytique, Faculté des Sciences et Techniques, Mohammedia, Maroc

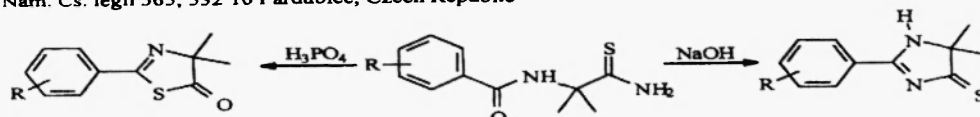
^bLaboratoire d'Ingénierie Moléculaire et Biochimie Pharmacologique, Faculté des Sciences, Ile du Saulcy,
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E-mail : kirsch@sciences.univ-metz.fr



Cyclisation Reactions Giving 5,5-Dimethyl -2-phenylimidazolin-4-thiones and 4,4-Dimethyl -2 -Phenylthiazolin-5-ones

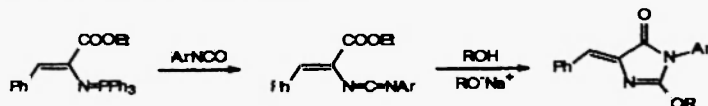
Miloš Sedlák*, Pavel Drabina and Jiří Hanusek, Department of Organic Chemistry, University of Pardubice, Nám. Čs. legií 565, 532 10 Pardubice, Czech Republic



Five substituted 2-benzoylamino-2-methyl-thiopropenamides have been prepared and their ring-closure reaction studied in basic and strongly acid media. In bases the ring closure takes place at the terminal nitrogen atom of thioamide group to give the corresponding 5,5-dimethyl-5-phenylimidazolin-4-thiones, while in strongly acid medium the reaction involves the sulphur atom to give the substituted 4,4-dimethyl-2-phenylthiazolin-5-ones. The mechanism of ring closure in basic medium has been studied in detail.

A DIRECT SYNTHESIS OF 2-ALKOXY-4H-IMIDAZOLIN-4-ONES

Ming-Wu Ding*, Yong Sun, Xiao-Peng Liu, Zhao-Jie Liu
Institute of Organic Synthesis, Central China Normal University,
Wuhan, 430079, P. R. China

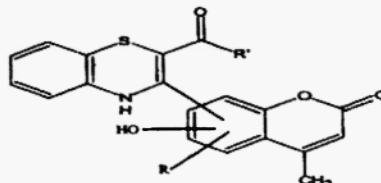
**SYNTHESIS OF NEW COUMARINYL 1,4-BENZOTHAZINES**

S.P.Bondgea, N.M.Ligde, V.E.Bhingolikara, R.P.Sonawane and R.A.Mane*a

a Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada, University, Aurangabad-431004, India

b Polymer Division, National Chemical Laboratory, Pune-411008, India

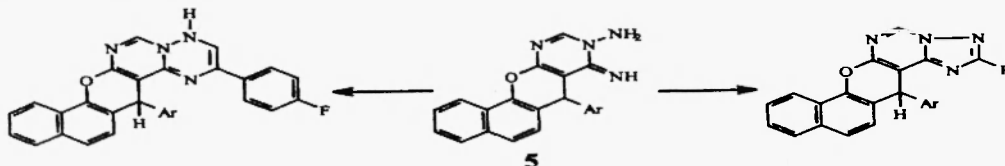
2-(Naphtho-1'-yl/thieno-2'-yl)-3-(5'/7'-hydroxy-4'-methyl coumarin-6'/8'-yl)-4, H-1,4-benzothiazines 3a-h have been synthesized for the first time starting from respective coumarins 1a-d.



Nitriles in Organic Synthesis: Facile and General Synthesis of Fused Tetraazabenz[a]cyclopenta[h]-anthracene and tetraazadibenzo[a,b]anthracene.

S. A. Swelam, M.E.A.Zaki, A. B. El-Gazzar
Photochemistry Dept., National Research Centre, Dokki, Cairo, Egypt

Cyclocondensation of 8-imino-7-(4-nitrophenyl)-7H,8H-12-oxa-2,11-diazabenz[a]anthracene 5 with different reagents.

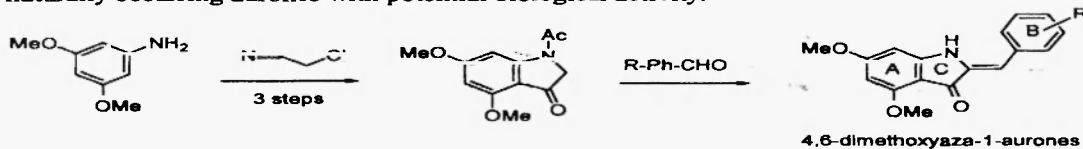


A SHORT METHOD FOR THE SYNTHESIS OF 4,6-DIMETHOXY-1-AZAAURONES

Martin Ata Lawson, Anne-Marie Mariotte and AHCÈNE Boumendjel*

UMR-CNRS 5063. Faculté de Pharmacie de Grenoble, 38706 La Tronche-France

4,6-Dimethoxy-1-azaurones (benzylidene-4,6-dimethoxy-2,3-dihydro-1H-indole-3-one) have been prepared according to the scheme shown below. These compounds are analogs of the naturally occurring aurones with potential biological activity.



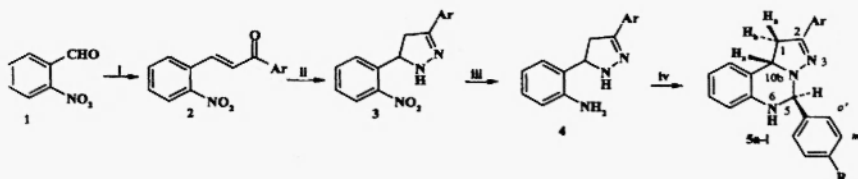
SYNTHESIS, CHARACTERIZATION AND IN VITRO

ANTIFUNGAL EVALUATION OF TETRAHYDROPIRAZOLO[1,5-c]QUINAZOLINES

Bratlio Iasnasty^a, Harlem Torres^a, Jairo Quiroga^a, Rodrigo Abonía^a, Manuel Noguera^b, Adolfo Sánchez^b, Maximiliano Sortino^c, Susana Zaccaro^c and John Low^d

^aGrupo de Investigación de Compuestos Heterocíclicos, Departamento de Química, Universidad del Valle, A. A. 25360, Cali - Colombia;

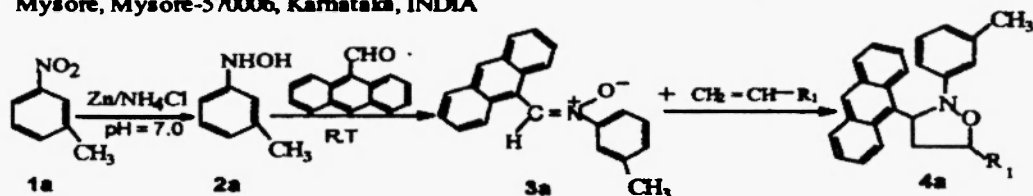
^bDepartamento de Química Inorgánica y Orgánica, Universidad de Jaén, 23071 Jaén, España; ^cFarmacognosia, Facultad de Ciencias Bioquímicas y Farmacéuticas, Universidad Nacional de Rosario, Sulpacha 531, (2000), Rosario, Argentina; ^dDepartment of Chemistry, University of Aberdeen, Meston Walk, Old Aberdeen, AB24 3UE, Scotland.



SYNTHESIS OF NOVEL ISOXAZOLIDINES VIA 1,3-DIPOLAR CYCLOADDITION OF NITRONES TO OLEFINS

B.K. Vishu Kumar, K. Mantelingu, Basappa and K.S. Rangappa*

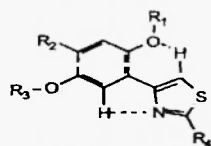
Department of Studies in Chemistry, University of Mysore, Manasagangotri, Mysore, Mysore-570006, Karnataka, INDIA



INTRAMOLECULAR WEAK HYDROGEN BONDS IN SUBSTITUTED 4-ARYLTHIAZOLES

F. Sánchez-Viesca*, Martha Berros and Ma. R. Gomez

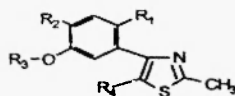
Faculty of Chemistry, Graduate Division, National Autonomous University of Mexico University City, Mexico, D. F., 04510



R₁, R₃ = H, CH₃

R₂ = H, OCH₃

R₄ = CH₃, NH₂



R₁ = OH, CH₃

R₂ = H, OCH₃

R₃, R₄ = H, CH₃

SYNTHESIS OF 1, 3-DIKETONE AND ITS REACTION WITH DIFFERENT N-NUCLEOPHILES (PART II)

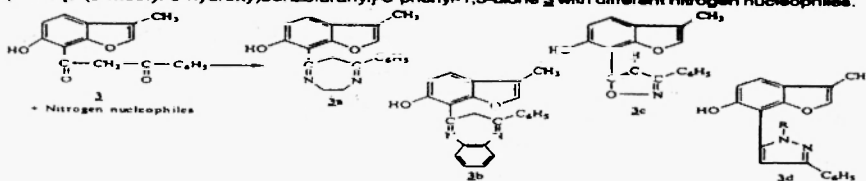
Rashmy Unny, P. Joshi**, M.P. Dobhal*** and Y.C. Joshi***

***Department of Chemistry, University of Rajasthan, Jaipur 302 004 India

**Roewell Park Cancer Research Institute, Buffalo, USA

*S.S. Jain Subodh College, Jaipur, India

Synthesis of 1,4-diazepine 3a, 1,5-benzodiazepine 3b, isoxazole 3c and pyrazole 3d derivatives on reaction of Propen-1-(7-(3-methyl-6-hydroxy)benzofuranyl)-3-phenyl-1,3-dione 3 with different nitrogen nucleophiles.

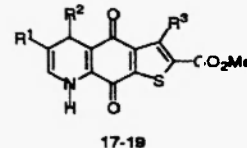
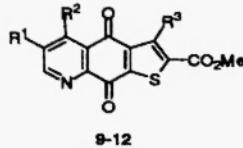
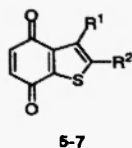
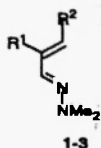


DIELS-ALDER REACTIONS OF 1-DIMETHYLAMINO-1-AZA-1,3-DIENES WITH BENZO[b]THIOPHENE-4,7-QUINONES

Jaime A. Valderrama^a and Ludys Cárdeas

Facultad de Química, Pontificia Universidad Católica de Chile, Casilla 306, Santiago 22, Chile.

The cycloaddition of 1-azadienes 1-3 with dienophiles 5-7 proceeds under regioselective manner to afford thienoquinolinquinones 9-12 or it dihydro derivatives 17-19 depending upon the structure of the partners.

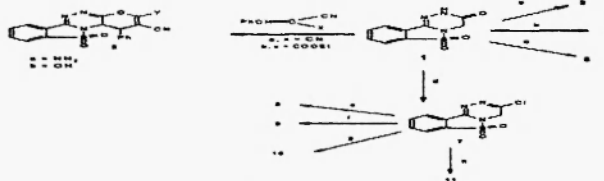


BEHAVIOR OF 1,5-DIHYDRO-6-OXO-1,2,4-TRIAZINO[3,4-B]BENZOISOTHIAZOLE SULPHUR DIOXIDE TOWARDS CARBON ELECTROPHILES, CHLORINE NUCLEOPHILES AND SOME STUDIES WITH THE PRODUCTS

A.M.F. EISSA

Chemistry Department, Faculty of Science, Behna University, Behna-Egypt.

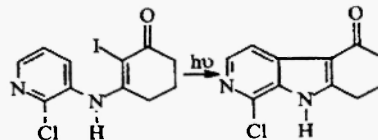
Behavior of title compound towards carbon electrophiles and chlorine nucleophiles is reported.



Photochemistry of Polyhalogenated Heterocyclic Enaminones: competition between cyclization and dehalogenation

Pierre-Jean Aragon, Jean-Michel Chezal, Olivier Chavignon, Jean-Claude Teulade, Jean-Pierre Chapat and Yves Blache

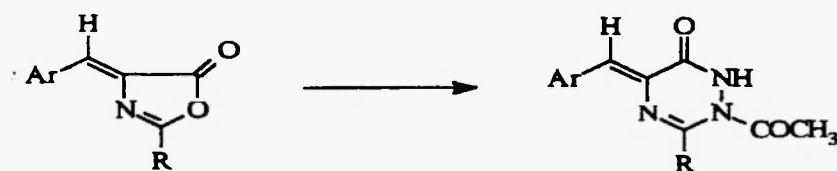
Photochemistry of polyhalogenated enaminones is described under various conditions to give functionalized tetrahydroazacarbazonone (9,15). Starting enaminones (2, 7, 14) also underwent competitive dehalogenations creating a set of secondary products.



A NOVEL SYNTHESIS OF 2-ACETYL-3-SUBSTITUTED-6-OXO-5-(ARYLMETHYLENE)-1H-1,2,4-TRIAZINES

T.V. Maruthikumar and P. Hanumantha Rao*

Department of Chemistry, Osmania University, Hyderabad-500 007, India



Synthesis of 5-Chloro-3-Methyl-1 Phenyl-1H Pyrazole-4-Carboxylic Acid Heterocyclic-2-Ylamide

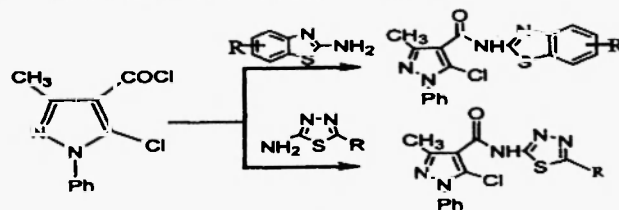
Hu Liming^{a,b}, Li Xueshu^b, Chen Zhiyuan^b, Liu Xiaopeng^b, Liu Zhaojie^b

^a Department of Chemistry, Xiamen University, Xiamen, 361005, Fujian, China

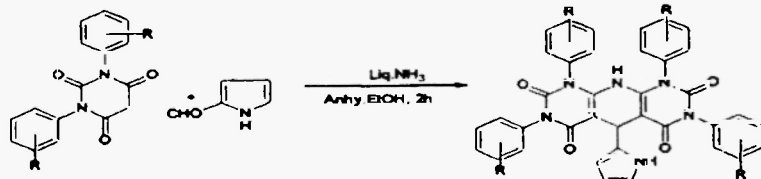
^b Institute of Organic Synthesis, Central China Normal University, Wuhan, 430079, Hubei, China

E-mail: huluming2813@sobu.com

Abstract: 5-chloro-3-methyl-1 phenyl-1H pyrazole-4-carboxylic acid heterocyclic-2-ylamide were prepared by the reaction of pyrazole-4-carbonyl chloride with heterocyclic amine in good yields.



Synthesis and Antibacterial Activities of 1,2,3,4,6,7,8,9-octahydro-1,3,7,9-tetra phenyl 5-pyrrolo-2,4,6,8-tetraoxo-10H, 5H pyrido[2,3-d', 6,5-d']dipyrimidine



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

REGION 2