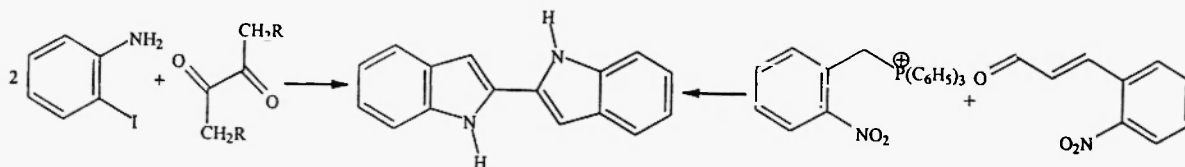


Graphical Abstracts

Heterocycl. Commun. 5 (1999) 399-402

CONVENIENT SYNTHESIS OF 2,2'-BIINDOLE

Darrell J. Koza and William B. Euler*, Department of Chemistry, 51 Lower College Road, University of Rhode Island, Kingston, RI 02881, USA.

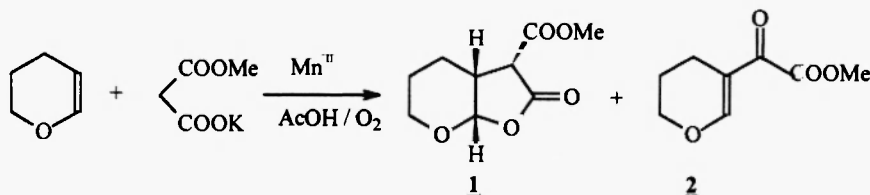


Heterocycl. Commun. 5 (1999) 403-406

MANGANESE (III)-PROMOTED ADDITION OF MONOMETHYL MALONATE ON DIHYDROPYRAN IN THE PRESENCE OF MOLECULAR OXYGEN

L. Lamarque, A. Méou and P. Brun*, Laboratoire de Synthèse Organique Selective, GCOPL, ESA 6114, Faculté des Sciences de Luminy, 163 Avenue de Luminy, case 901, F-13288, Marseille Cedex 9, France.

The effect of oxygen on the course of the Mn^{III} -induced addition of monomethyl malonate on dihydropyran is described.

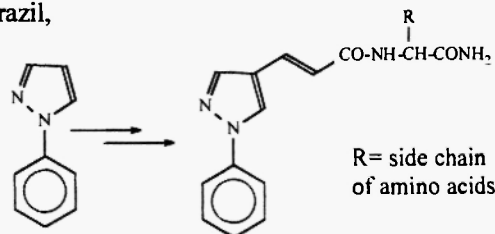


Heterocycl. Commun. 5 (1999) 407-412

A NEW SERIES OF 1-PHENYLPYRAZOLE PEPTIDOMIMETICS

Luciene M. F. Santos, Antonio J. Alves, Antonio R. de Faria, Dalci J. Brondani, Antonio C. C. Freitas, Jose G. de Lima, Ana C. Lima Leite *
Laboratório de Tecnologia Químico-Farmacêutica (LTQF / LABSINFIA)
Faculdade de Farmácia - Universidade Federal de Pernambuco.
Prof. Artur Sá S/N, CDU, 50740-520, Recife, Pernambuco - Brazil,
aclb02@elogica.com.br

A strategy using the Vilsmeier-Haack conditions and peptide synthesis reagents was found to be successful for synthesis of 1-phenylpyrazole peptidomimetics.



ONE-POT SYNTHESIS OF 1,4-BENZOXAZIN-2-ONES AND 1,4-BENZOXAZINES FROM EPOXIDES.

Heterocycl. Commun. 5 (1999) 413-418

A. Gaz¹, F. Ammadi¹, S. Boukhris¹, A. Souizi^{1*} and G. Coudert²

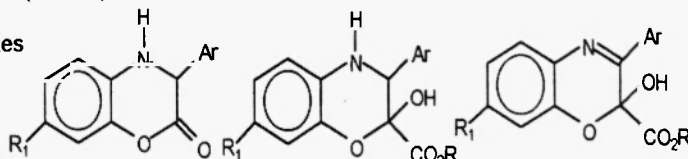
¹Laboratoire de Synthèse Organique et d'Agrochimie. Département de Chimie.

Faculté des Sciences. Université Ibn Tofail. B.P 133Kénitra (Maroc)

²Institut de Chimie Organique et Analytique. Université d'Orléans-UFR de Sciences.

Rue de Chartre, B.P 6759, 45067 Orléans Cedex 2 (France)

Synthesis of the benzoxazines variously substituted from epoxides .

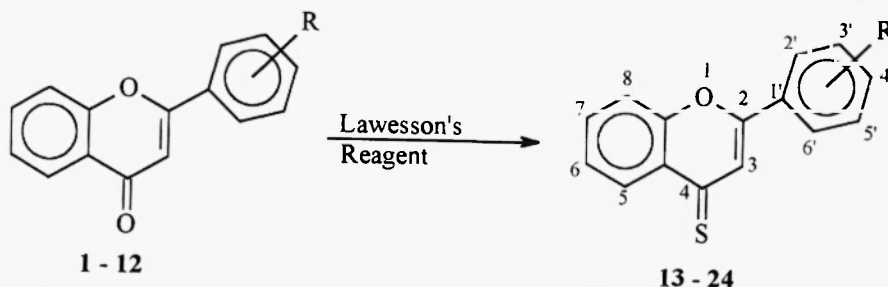


Heterocycl. Commun. 5 (1999) 419-422

AN EFFICIENT PROCEDURE FOR THE PREPARATION OF 4-THIOFLAVONES BY THE REACTION OF FLAVONES WITH LAWESSON'S REAGENT

Albert Lévai

Department of Organic Chemistry, Lajos Kossuth University, H-4010 Debrecen, Hungary



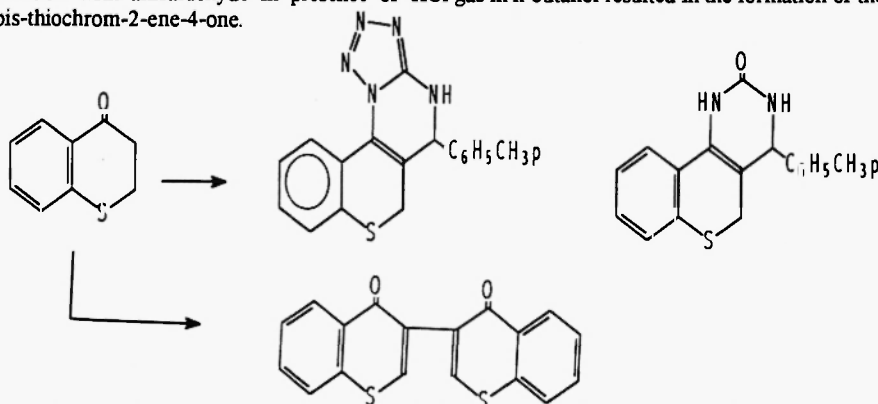
Heterocycl. Commun. 5 (1999) 423-427

THE USE OF THIOCHROMAN-4-ONE IN THE SYNTHESIS OF SOME BENZOTHIOPYRANOPYRIMIDINES AND BIS-THIOCHROM-2-ENE-4-ONE OF PHARMACEUTICAL INTEREST

M.A. Metwally* and M. Abdel-Mogib

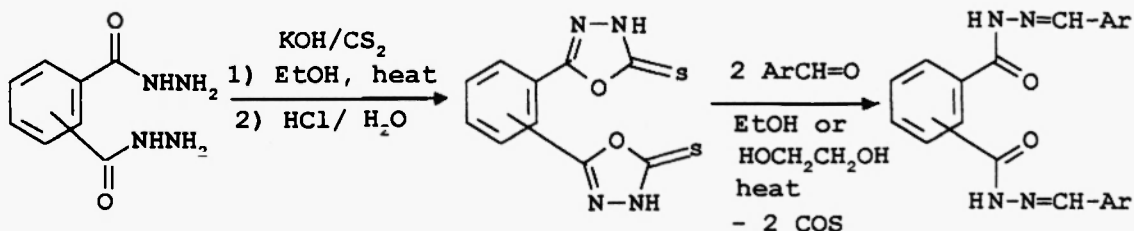
Department of Chemistry, Faculty of Science, University of Mansoura, Mansoura, EGYPT.

The reaction of the title compound with anisaldehyde, 5-aminotetrazole monohydrate (and/or Urea) in presence of HCl gas in n-butanol afforded the benzothiopyranopyrimidines, while the reaction with anisaldehyde in presence of HCl gas in n-butanol resulted in the formation of the bis-thiochrom-2-ene-4-one.



Reaction of 1,3- and 1,4-Bis(1,3,4-Oxadiazole-5(3H)-Thione-2-yl)Benzenes with Aryl Aldehydes

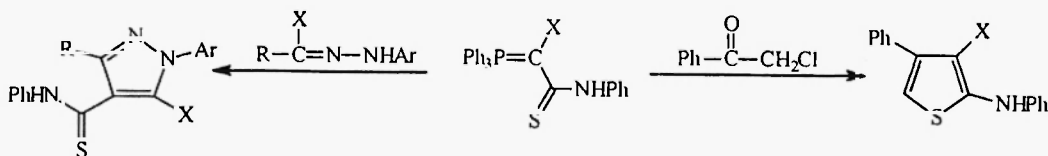
Mahmoud Al-Talib, Sameer Bataineh and Hasan Tashtoush*
Department of Chemistry, Yarmouk University, Irbid - JORDAN



SYNTHESIS OF α -THIOCARBAMOYL PHOSPHORANES AND THEIR UTILITY FOR FORMATION OF SOME PYRAZOLE AND THIOPHENE DERIVATIVES.

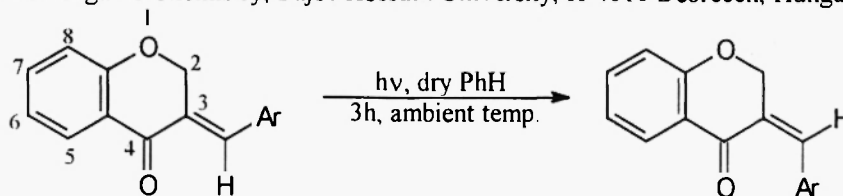
Nadia Ragab Mohamed,
Department of Photochemistry, National Research Centre, Dokki, Giza, EGYPT.

Synthesis of α -thiocarbamoyl phosphorane **3a-d** and their utility in formation of some pyrazoles **7, 8** and thiophene systems **10**.



SYNTHESIS OF NEW (Z)-3-ARYLIDENECHROMANONES BY THE PHOTOISOMERIZATION OF (E)-3-ARYLEDENCHROMANONES

Albert Lévai, Csaba Nemes and Tamás Patonay
Department of Organic Chemistry, Lajos Kossuth University, H-4010 Debrecen, Hungary

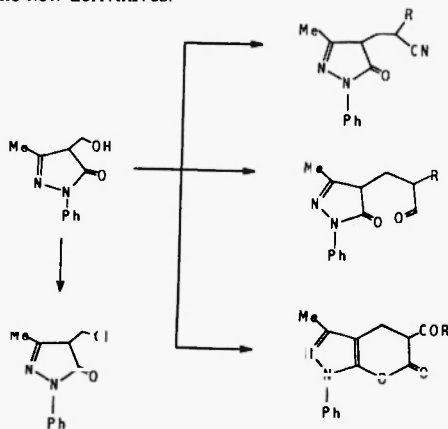


THE USE OF 4-HYDROXYMETHYL-1-PHENYL-2-PYRAZOLIN-5-ONE IN THE SYNTHESIS OF NEW HETEROCYCLES OF PHARMACEUTICAL INTEREST

M.A. Mctwally*, M. Hammouda, S.S. El-Morsy and M.M. El-Hussini

Department of Chemistry, Faculty of Science, University of Mansoura, Mansoura, EGYPT.

Condensation of the title compound with malononitrile, ethyl cyanoacetate, α -cyanoacetophenone, acetophenone, 1,3-diphenylacetone, ethyl acetoacetate and/or diethyl malonate resulted in the formation of the corresponding cyano derivatives, 1,5-diketones, and -pyrones. The reaction of the title compound with POCl₃ afforded the 4-chloromethylpyrazolone. As a further extension some reactions were carried out for the new derivatives.

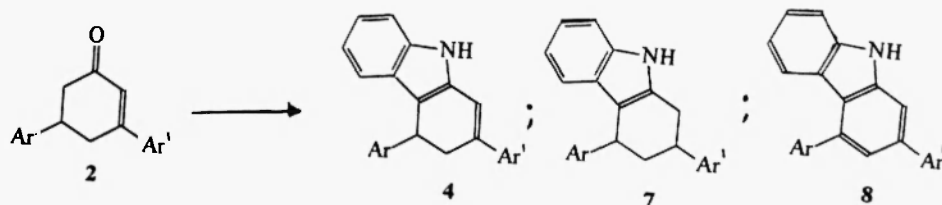


AN EFFICIENT SYNTHESIS OF 6,8-DIARYL CARBAZOLES VIA FISCHER INDOLE CYCLIZATIONS

V. Padmavathi, K. Sharmila, A. Padmaja and D. Bhaskar Reddy*

Department of Chemistry, Sri Venkateswara University, TIRUPATI-517 502, India.

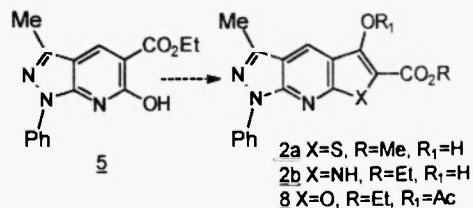
The synthesis of title compounds has been described.



SYNTHESIS OF NEW ISOSTERIC HETEROTRICYCLIC DERIVATIVES: PYRAZOLO[3,4-*b*]THIENO[3,2-*e*]PYRIDINE, PYRAZOLO[3,4-*b*]PYRROLO[3,2-*e*]PYRIDINE AND FURO[2,3-*b*]PYRAZOLO[4,3-*e*]PYRIDINE

Celso de Amorim Câmara^{1,2}, Emerson Teixeira da Silva^{1,2}, Eliezer Jesus Barreiro^{1,2} and Carlos Alberto Manssour Fraga^{1,2*}

¹Laboratório de Avaliação e Síntese de Substâncias Bioativas, <http://acd.ufrj.br/~pharma/labbio>, Faculdade de Farmácia, Universidade Federal do Rio de Janeiro, P.O. Box 68006, 21944-970, Rio de Janeiro, RJ, Brazil; ²Instituto de Química, Universidade Federal do Rio de Janeiro, Rio de Janeiro - RJ, Brazil.

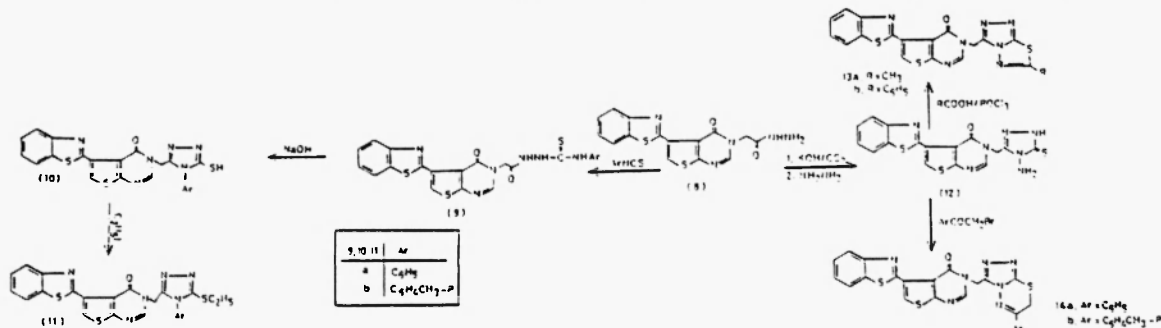


SYNTHESIS OF 1,2,4 - TRIAZOLE, 1,2,4 - TRIAZOLO [3,4 -b] [1,3,4] THIADIAZOLE AND 1,2,4 -TRIAZOLO [3,4 -b] [1,3,4] THIADIAZINE DERIVATIVES OF 3- [5- (BENZOTHAZOL - 2 - YL) THIENO [2,3-d] PYRIMIDINE - 4- ONE] ACETIC ACID HYDRAZIDE.

M. A. Khalil^a, M. A. Raslan^a, K. M. Dawood^b and S. M. Sayed^a

a: Chemistry Department, Faculty of Science, Aswan, Egypt; b: Chemistry Department, Faculty of Science, Cairo University, Giza, Egypt

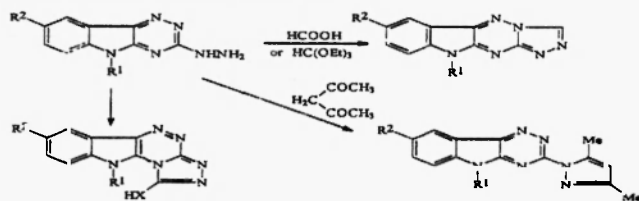
A novel series of aryl 3-[5-(benzothiazol-2-yl)thieno [2,3-d] pyrimidine -4-one] carbonyl methyl thiosemicarbazide 9a,b was synthesized and then cyclized with sodium hydroxide to afford the thieno [2,3-d] pyrimidine (10a,b), which were alkylated with ethyl iodide to afford (11a,b). The reaction of acetic acid hydrazide derivative (3) with carbon disulphide and potassium hydroxide followed by hydrazine gave the triazole derivative (12). It subsequent condensed with carboxylic acids or with phenacyl bromide afforded thiadiazole derivative (13a,b) and thiadiazines derivatives (14a,b). The structure of the newly synthesized compounds was elucidated by elemental analyses ir, amr and mass spectra.



SYNTHESIS OF FUSED AND NONFUSED HETEROCYCLES FROM 5- AND 8- SUBSTITUTED 3-HYDRAZINO - 1, 2, 4- TRIAZINO[5, 6-b] INDOLE

Hmida Abdel Hamid, Ahmed Mousaad, El Sayed Ramadan and El Sayed H. El Ashry*
Chemistry Department, Faculty of Science, Alexandria university, Alexandria, Egypt

Triazolotriazinoindoles have been prepared by the reaction of 3-hydrazino-1, 2, 4-Triazino[5, 6 -b]indoles with formic acid, triethyl orthoformate, carbon disulphide, thiourea, urea and ethyl chloroformate. Reaction of hydrazines with acetylacetone gave a biheterocycle containing pyrazole ring. Reaction of hydrazines with ethyl acetoacetate, ethyl cyanoacetate as well as nitrous acid has been investigated.



TETRACYCLIC COMPOUNDS FROM INDOLO[2,3-b]CYCLOHEPTAN-1-ONES. SYNTHESIS OF ISOXAZOLO[4',3':6,7]CYCLOHEPTA[b]INDOLES

C. Kavitha and K. J. Rajendra Prasad*, Department of Chemistry, Bharathiar University, Coimbatore - 641 046, INDIA

