

Graphical Abstracts

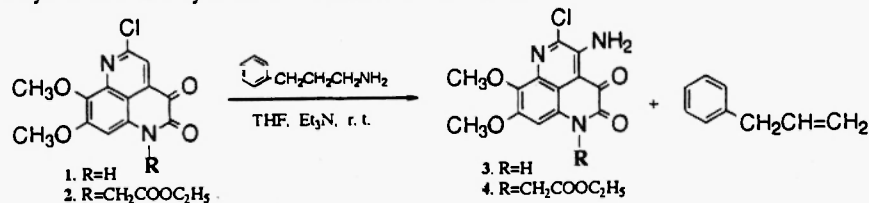
Heterocycl. Commun. 7 (2001) 107-112

STUDIES ON THE REACTIONS OF 2,3-DIKETOPYRIDO[4,3,2-*de*]QUINOLINES WITH ALIPHATIC AMINES

Huawu Shao, Qizhu Ding and J. William Lown*

Department of Chemistry, University of Alberta, Edmonton, AB, Canada, T6G 2G2

Abstract: A reaction of 2,3-diketopyrido[4,3,2-*de*]quinolines with different amines is described. The aminative transfer is carried out in the presence of triethylamine in tetrahydrofuran under ambient conditions.



Heterocycl. Commun. 7 (2001) 113-116

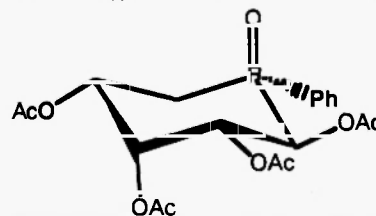
CRYSTAL STRUCTURE ANALYSIS OF A 1,2,3,4-TETRA-O-ACETYL-5-DEOXY-5-PHENYLPHOSPHINYL-D-*ribo*-PYRANOSE DERIVATIVE

Tatsuo Oshikawa,^{a*} Kuniaki Seo,^b Mitsuji Yamashita,^a Masaki Takahashi,^a and Yoshihiro Hamazu^b

^aDepartment of Materials Chemistry, Faculty of Engineering, Shizuoka University, Hamamatsu 432-8561, Japan

^bDepartment of Chemistry and Biochemistry, Numazu College of Technology, Numazu 410-0022, Japan

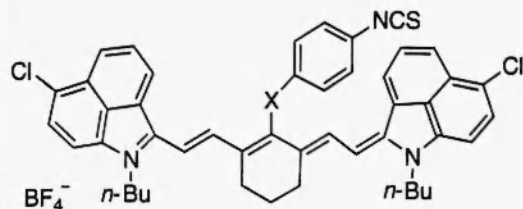
X-ray crystallographic analysis performed on a single crystal of 1,2,3,4-tetra-*O*-acetyl-5-deoxy-5-phenylphosphinyl-D-*ribo*-pyranose derivative. The compounds have the (*R_p*) configuration at the phosphorus atom with the 'C' conformation for the pyranose ring.



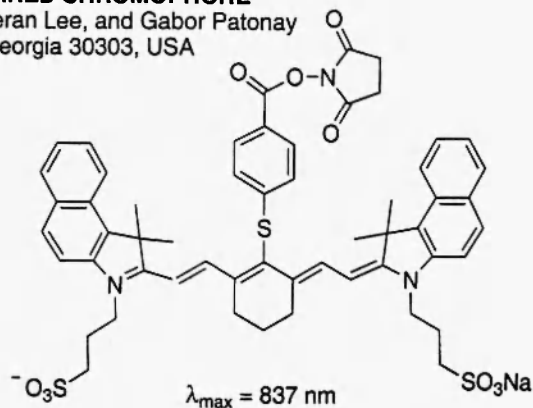
Heterocycl. Commun. 7 (2001) 117-122

NEW HEPTAMETHINE CYANINE REAGENTS FOR LABELING OF BIOMOLECULES WITH A NEAR-INFRARED CHROMOPHORE

Lucjan Strekowski,* Tadeusz Gorecki, J. Christian Mason, Hyeran Lee, and Gabor Patonay
Department of Chemistry, Georgia State University, Atlanta, Georgia 30303, USA



$\lambda_{\text{max}} = 1033 \text{ nm (X=O)}$ and 1060 nm (X=S)

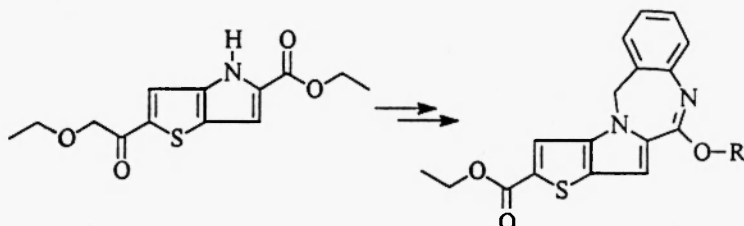


$\lambda_{\text{max}} = 837 \text{ nm}$

A FACILE SYNTHESIS OF ETHYL 5-SUBSTITUTED ALLYLOXY 11H-BENZO[e]THIENO[2',3':4,5]PYRROLO[1,2-a][1,4]DIAZEPINE-2-CARBOXYLATES

P. Satish Goud, P. Mallikarjun Goud and D. Ashok*

Department of Chemistry, P.G. College of Science, Saifabad, Osmania University, Hyderabad-7

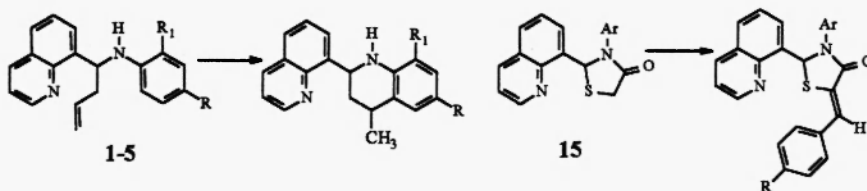


TRANSFORMATIONS OF 4-N-ARYLAMINO-4-(8-QUINOLINYL)-1-BUTENES AND 3-ARYL-2-(8-QUINOLINYL)-4-THIAZOLIDINONES

Leonor Y. Vargas Méndez^a, Vladimir Kouznetsov^a, Juan C. Poveda^a, Ciğdem Yolaçan^b, Nüket Öcal^{cb}, and Feray Aydoğan^b

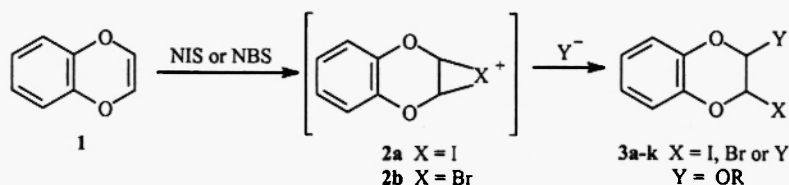
^a Research Center for Biomolecules, Laboratory of Fine Organic Synthesis, School of Chemistry, Industrial University of Santander, A.A. 678, Bucaramanga, Colombia, ^b Department of Chemistry, Yıldız Technical University, Davutpasa Campus, 34210 Istanbul, Turkey

The chemistry of 4-N-arylamino-4-(8-quinolinyl)-1-butenes **1-5** and 3-aryl-2-(8-quinolinyl)-4-thiazolidinones **15** has been studied. N-Furoylation, N-allylation, mediated-acid intramolecular cyclisation, amino-Claisen transposition and aldol reactions were used to prepare new C-8 substituted quinolines with biological potential.



NIS OR NBS MEDIATED FORMATION OF HALO ACETALS. A CONVENIENT METHOD FOR THE ONE POT DISUBSTITUTION OF 1,4-BENZODIOXIN.

A. Sergi Capilla, Nathalie Hernández and M^a Dolores Pujol.*



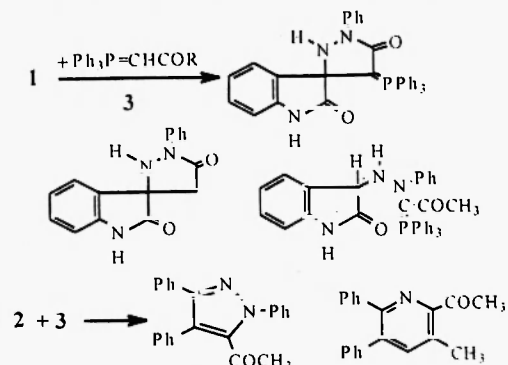
1,4-Benzodioxin, nucleophilic substitution, halogenation, halo acetals, enol ethers.

**A FACILE APPROACH TO N-HETEROCYCLES.
THE REACTIONS OF YLIDE PHOSPHORANES
WITH HYDRAZONES**

NEVEN A. GANOUB

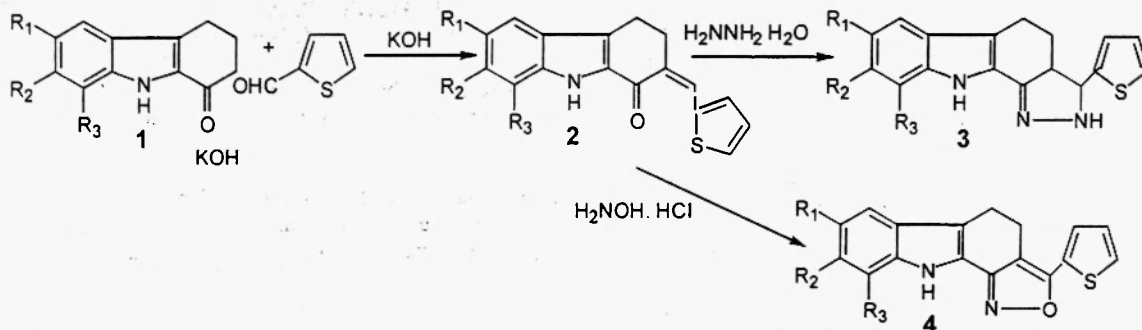
National Research Centre, Dokki, Cairo, Egypt

The reactions of isatin- β -phenylhydrazone **1** and benzil monophenylhydrazone **2** with phosphorus ylides **3** take different pathways, depending on the nature of the hydrazone and the experimental conditions



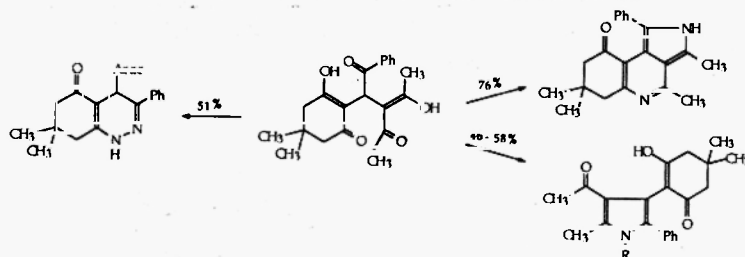
Synthesis of tetracyclic carbazole derivatives

R. Balamurali and K.J. Rajendra Prasad, Bharathiar University, Coimbatore, India.



**THE SYNTHESIS OF 3-ACETYL-2-(4,4-DIMETHYL-2,6-DIOXOCYCLOHEXYL)-1-PHENYLPENTANEDIONE-1.4 AND ITS
REACTIONS WITH N-NUCLEOPHILES**

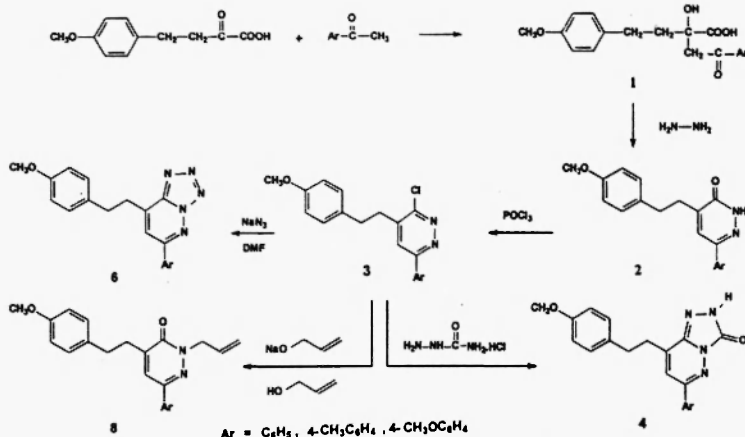
Alexander N. Andin, Vladimir A. Kaminskii, Sergey V. Dubovitskii*
Far Eastern State University,
Chemical Department, Ocyabrskaya, 27, Vladivostok, 690950, Russia



Construction of Some Pyridazine Derivatives and their Annelated Ring Systems from Keto Acids

Abdel Moneim El Massry, Mohamed M. Abdel Rahman, Safaa El Sayed and El Sayed H. El Ashry.

Department of Chemistry, Faculty of Science, Alexandria University, Alexandria 21321, Egypt.

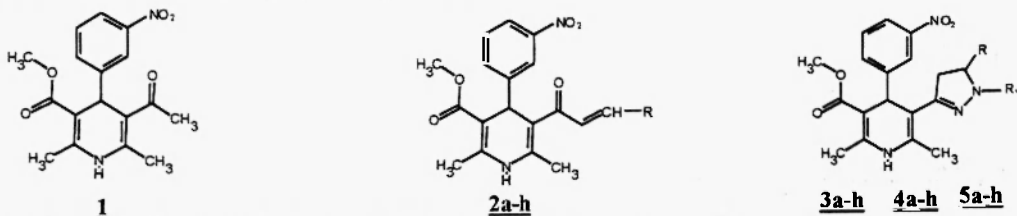


SYNTHESIS OF SOME NEW UNSYMMETRICAL 1,4-DIHYDROPYRIDINE DERIVATIVES AS POTENT ANTITUBERCULAR AGENTS

Harsukh Gaveriya, Bhavik Desai, Viput Vora and Anamik Shah

Department of Chemistry, Saurashtra University, Rajkot-360005, Gujarat (India)

Few novel unsymmetrical 1,4-dihydropyridines **3a-h**, **4a-h** and **5a-h** were prepared from 2,6-dimethyl-3-acetyl-5-carbomethoxy-4-(3'-nitro phenyl)-1,4-dihydropyridine **1** via chalcones **2a-h** formation in two steps. All compounds were tested for antitubercular activity against H₃₇Rv strain.

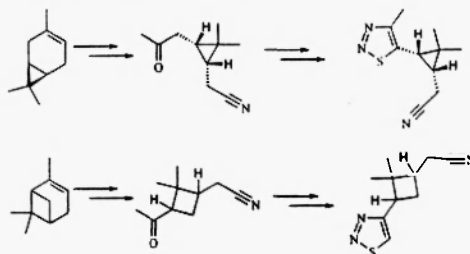


APPLICATION OF THE HURD-MORI REACTION FOR THE SYNTHESIS OF CHIRAL 1,2,3-THIA(SELENO)DIAZOLE DERIVATIVES FROM (+)-3-CARENE AND α -PINENE

Morzherin Yu. Yu.,^a Glukhareva T.V.,^a Mokrushin V.S.,^a Tkachev A.V.,^b and Bakulev V.A.^a

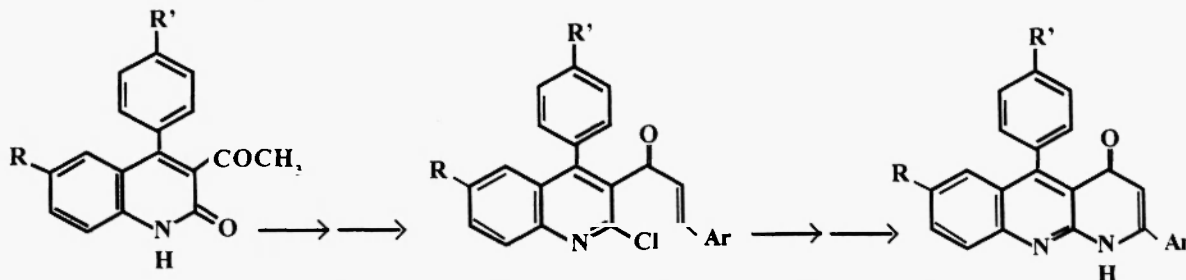
^a The Urals State Technical University, 620002 Ekaterinburg, Russia. Fax: +7 3432 745483, e-mail: monerine@htf.ustu.ru

^b Institute of Organic Chemistry, 630090 Novosibirsk, Russia, e-mail: atkachev@nioch.nsc.ru



A NEW APPROACH TO THE SYNTHESIS OF BENZO[b][1,8]NAPHTHYRIDIN-4(1H)ONES.

S. Vijayalakshmi and S.P. Rajendran*, Department of Chemistry, Bharathiar University, Coimbatore-46.
 Synthesis of title compounds is reported by the sequence of reactions as outlined.



ENAMINONES AS BUILDING BLOCKS IN ORGANIC SYNTHESIS:
 SYNTHESIS OF NEW POLYFUNCTIONAL PYRIDINES, CONDENSED
 PYRIDINES AND PENTASUBSTITUTED BENZENE .

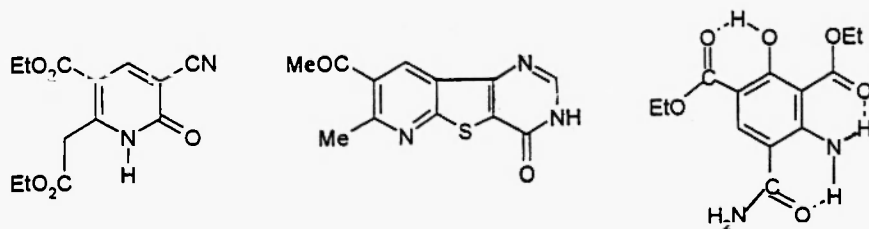
F. A. Abu-Shanab^a, Y. M. Elkholy^{b*} and M. H. Elnagdi^c

^aDepartment of Chemistry, Faculty of Science, Al-Azhar University, Assiut 71524, EGYPT

^bDepartment of Chemistry, Faculty of Science, Helwan University, Ain-Helwan, Cairo, EGYPT

^cDepartment of Chemistry, Faculty of Science, Cairo University, Giza, EGYPT

Synthesis of pyridine ,thienopyridine,pyrido[2,3-b]thieno[3,2-d]pyrimidine and penta substituted benzene



FACILE ENTRY TO PYRIMIDO[4,5-b]QUINOLINES AND ITS THIO ANALOGUES

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 Bharathiar University, Coimbatore - 641 046, India.

