

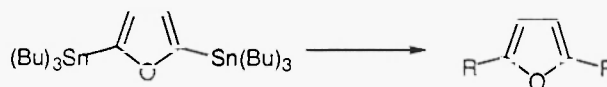
Graphical Abstracts

Heterocycl. Commun. **5** (1999) 301–304

Palladium Catalyzed Cross-Coupling Reactions for the Synthesis of 2,5-Disubstitutedfurans

Arvind Kumar, Chad E. Stephens and David W. Boykin*

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

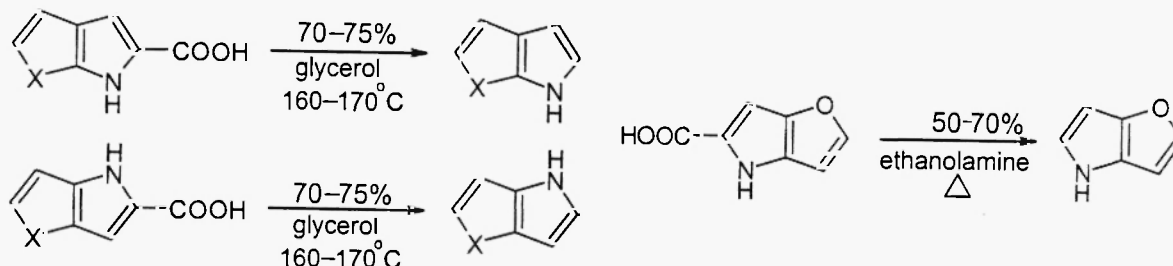


Heterocycl. Commun. **5** (1999) 305–310

Improved Syntheses of [3,2-*b*]- and [2,3-*b*]-fused Selenolo- and Thienopyrroles, and of Furo[3,2-*b*]pyrrole

Michael Welch and Robert S. Phillips*

Department of Chemistry, Department of Biochemistry and Molecular Biology, and Center for Metalloenzyme Studies, University of Georgia, Athens, GA 30602-2556, U.S.A.



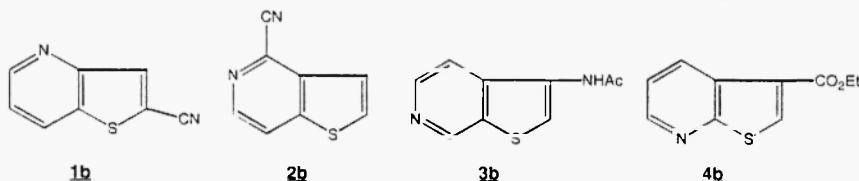
Heterocycl. Commun. **5** (1999) 311–318

X-RAY CRYSTALLOGRAPHIC STUDIES OF FOUR MONOSUBSTITUTED THIENOPYRIDINES. COMPARISON OF EXPERIMENTAL DATA WITH CALCULATED OR MEASURED VALUES FOR THE PARENT COMPOUNDS

LeRoy H. Klemm*, Timothy J. R. Weakley, and Myungok Yoon

Department of Chemistry, University of Oregon, Eugene, Oregon 97403-1253, USA

Bond lengths and bond angles have been measured for the thienopyridine compounds **1b–4b** and compared with values calculated by MO theory. Some ¹³C NMR data are also reported.

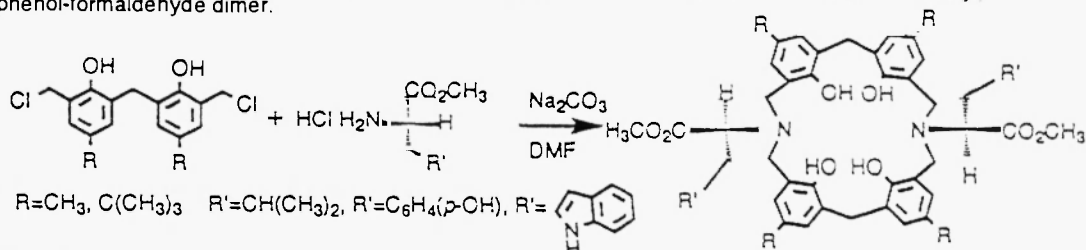


SYNTHESES OF CHIRAL TETRAHOMODIAZACALIX[4]ARENES INCORPORATING AMINO ACID RESIDUES: CHIRAL INDUCTION OF CYCLOPHANE MOIETY BY THE CHIRALITY OF AMINO ACID RESIDUE

Kazuaki Ito*, Takanori Ohta, Yoshihiro Ohba, and Tyo Sone

Department of Materials Science and Engineering, Faculty of Engineering, Yamagata University, Yonezawa 992-8510, Japan

Chiral homoazacalix[4]arenes were prepared by the reactions of L-amino acids with bis(chloromethyl) phenol-formaldehyde dimer.

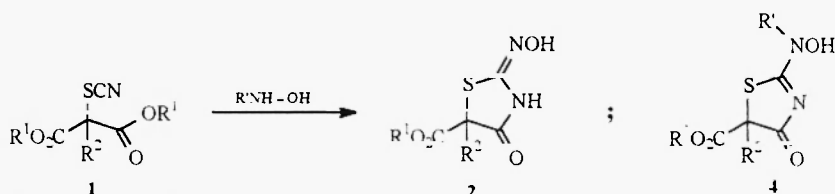


CYCLIZATION OF THIOCYANATO MALONATES WITH HYDROXYLAMINES TO 5-CARBOXYALKYL-4-OXO-THIAZOLI(DI)NES

Thomas Kurz and Detlef Geffken*

Institute of Pharmacy, Pharmaceutical Chemistry Department, University of Hamburg:

Bundesstrasse 45, 20146 Hamburg, Germany

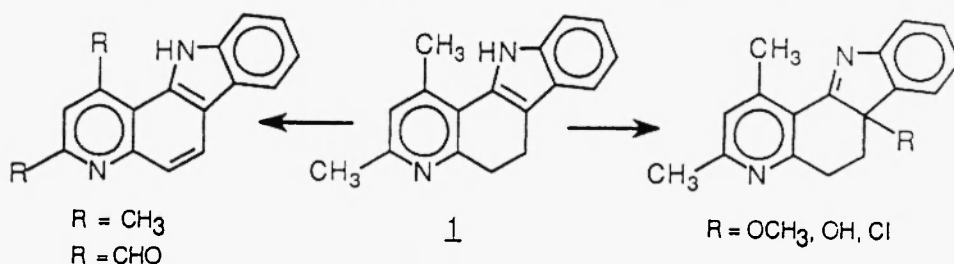
Thiocyanato malonates **1** are cyclized with hydroxylamine or N-substituted hydroxylamines to thiazoli(di)ones of type **2** and **4**.

OXIDATION OF INDOLO-QUINOLINE STRUCTURES

R. Barret^{*1}, A. Belaisaoul², Z. M. Du², T. Mulamba², J.Y. Laronze², J. Lévy².

1-Laboratoire de Chimie Thérapeutique- Faculté de Pharmacie, 8 Avenue Rockefeller, 69373 LYON Cedex 08 FRANCE. e-mail: barret@rockefeller.univ-lyon1.fr

2-UPRESA 6013, Faculté de Pharmacie, 51, rue Cognacq-Jay, 51100 REIMS FRANCE.

Different oxidative reagents of **1** were studied (I₂-DMSO, MnO₂, PIFA, Na₄XeO₆).

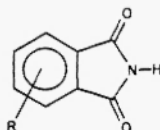
FACILE ROUTE TO AMINO PHTHALIMIDES AND ISOTHIOCYANATE ANALOGUES; NOVEL REAGENTS TO PREPARE FLUORESCENT PROTEIN CONJUGATES.

René Miranda^a, Roberto Osnaya^a, Ibeth Oviedo^a, Abel Ciprian^a,
Tonatiuh Cruz^a and Mariano Martínez^b.

^a Facultad de Estudios Superiores Cuautitlán, Universidad Nacional Autónoma de México, Campo 1, Av
1 de mayo s/n, Cuautitlán Izcalli, Estado de México, CP 54740, México.

^b Instituto de Química, Universidad Nacional Autónoma de México, Ciudad Universitaria, Coyoacán,
México D.F., CP 04510, México.

A simple synthesis of 3 or 4-aminophthalimides as well as the corresponding isothiocyanates starting from phthalic anhydride is described; these molecules are suggested as new reagents to obtain fluorescent protein conjugates. Additionally a mass spectrometric study for the target compounds was performed.



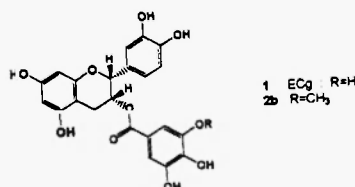
R = NH₂, SCN

SYNTHESIS OF MONOMETHYL AND DIMETHYL DERIVATIVES OF EPICATECHIN GALLATE (ECg) AND THEIR PHOTO-SENSITIVITY

Emiko Yanase and Shin-ichi Nakatsuka*

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

Epicatechin gallate (ECg) 1 was methylated with CH₂N₂ to give monomethyl derivatives 2a–c and dimethyl derivatives 3ab and their stabilities under exposure to visible light were examined.

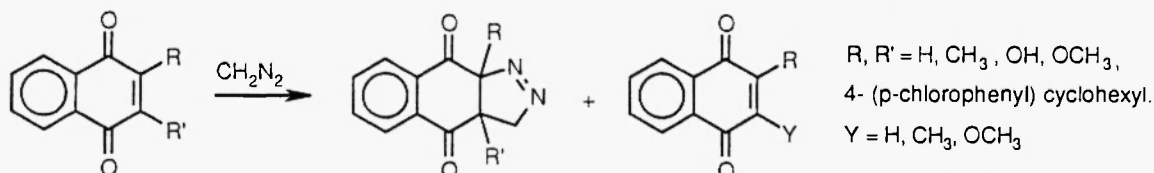


SYNTHESIS AND PROTOZOOCIDAL ACTIVITY OF NEW 1,4-NAPHTHOQUINONES

Saida Danoun, Geneviève Baziard-Mouysset, Jean-Luc Stigliani, Michele Ane-Margail, Marc Payard,
Jean-Michel Leger, Xavier Canron, Henri Vial, Philippe M. Loiseau, Christian Bories.

Laboratoire de Chimie Pharmaceutique, Faculté de Pharmacie, 35, Chemin des Maraîchers. F 31062 Toulouse

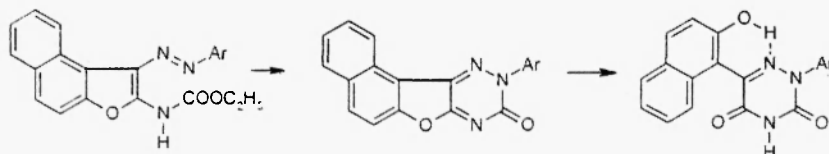
Addition of diazomethane to 1,4-naphthoquinones gives rise to different adducts. In vitro activities against *Plasmodium falciparum*, *Leishmania donovani*, *Trypanosoma brucei* and *Trichomonas vaginalis* were determined



Cyclization Reactions of Hydrazones XXVI: Synthesis of 2-Aryl-2,3-dihydro-napto-[1',2':4,5]furo[2,3-e]1,2,4-triazin-3-ones and their use for the preparation of 1-Aryl-5-(2-hydroxy-1-naphtyl)-6-azauracils

Jakub Styskala, Jan Slouka

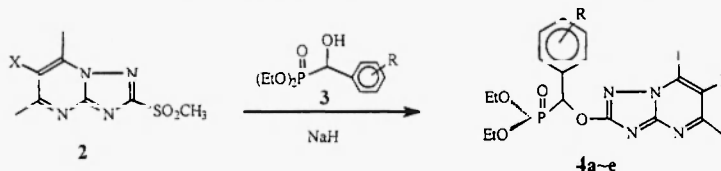
Department of Organic Chemistry, Tr. Svobody 8, 771 46 Olomouc, Czech Republic



SYNTHESIS AND HERBICIDAL ACTIVITY OF

NOVEL α -(1,2,4-TRIAZOLO[1,5-a]PYRIMIDINE-2-OXYL)PHOSPHONATE DERIVATIVES. Guang-Fu Yang^{a,*} and Hua-Zheng Yang^b ^aInstitute of Organic Synthesis, Central China Normal University, Wuhan 430079; ^bNational Key Laboratory of Elemento-Organic Chemistry, Nankai University, Tianjin 300071, P. R. China

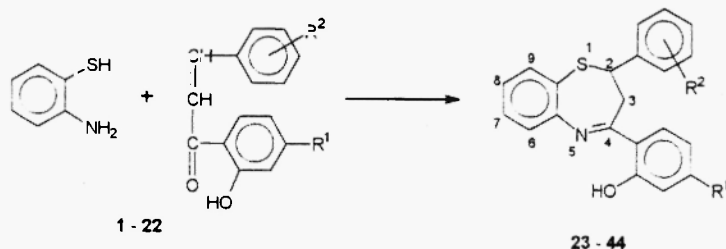
Some novel phosphonate derivatives containing triazolo[1,5-a]pyrimidine moieties have been synthesized in good yields by nucleophilic substitution reaction between α -hydroxyphosphonates 3 and 2-methanesulfonyl-1,2,4-triazolo[1,5-a]pyrimidines 2.



OXAZEPINES AND THIAZEPINES 38, SYNTHESIS OF 2,4-DIARYL-2,3-DIHYDRO-1,5-BENZOTHAZEPINES BY THE REACTION OF 2-HYDROXYCHALCONES WITH 2-AMINOTHIOPHENOL

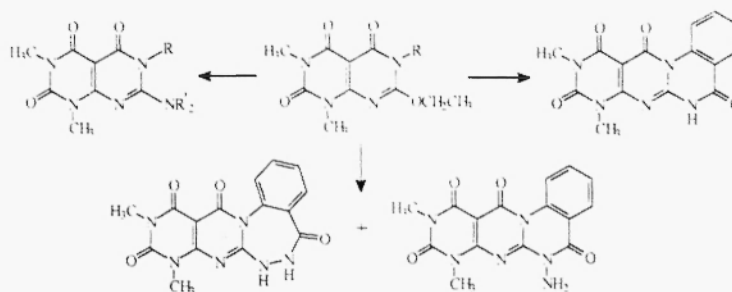
Albert Lévai

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



**Subsequent Reactions of 7-Ethoxypyrimido[4,5-d]pyrimidines:
Nucleophilic Exchange, Pyrimido[4,5:4',5']pyrimido[1,2-a]quinazoline,
Benzo[f]pyrimido[4,5:4',5']pyrimido[1,2-d][1,3,4]triazepine**

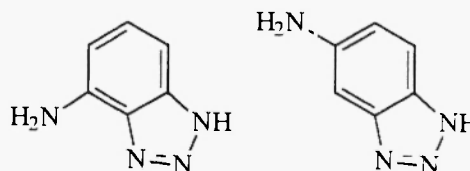
Heinrich Wamhoff*, Jürgen Muhr, Michael Horn, Pal Sohar, Antal Csampai



Synthesis of Aminobenzotriazoles

Duncan Graham* and Gerard McAnally

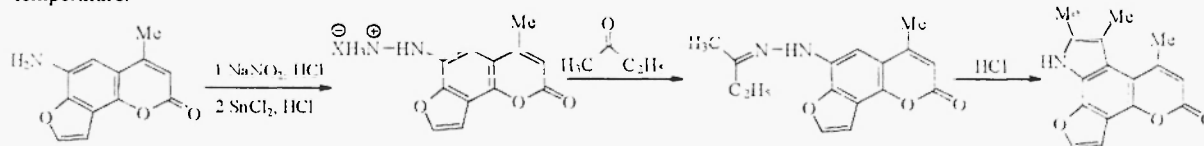
Department of Pure and Applied Chemistry
University of Strathclyde
Glasgow
G1 1XL



THE FIRST PYRROLOFUROCOUMARINS

Valery F. Traven*, Igor I. Saharuk, Dmitrii V. Kravtchenko and Igor G. Makarov
Department of Organic Chemistry, D.Mendeleev University of Chemical Technology of Russia,
125047 Moscow.

The first pyrrolo[2,3-f]furo[2,3-h]coumarins have been prepared via the appropriate hydrazone angelicin derivatives by the Fisher's indole cyclization. The intermediate hydrazones were synthesized by the condensation of 6-hydrazino-4-methylangelicin HCl salt with the proper ketones. The salt was prepared by reduction of 4-methylangelicin 6-diazonium chloride at low temperature.



**SYNTHESIS OF NEW HETEROCYCLIC THIAZOLIDINONE AND AZETIDINONE COMPOUNDS
AND THEIR ANTICANCER ACTIVITY**

Sunil B Desai, P.B.Desai and K.R.Desai*

Department of Chemistry, South Gujarat University, Surat-395 007 (India)

Thiazolidinones and azetidinones have been prepared by the reaction of various schiff bases with thioglycolic acid and chloroacetyl chloride respectively. The intermediate schiff bases were synthesised by the condensation of diaminobenzanilide with various aldehydes. The thiazolidinones and azetidinones were tested for their anticancer activity.

