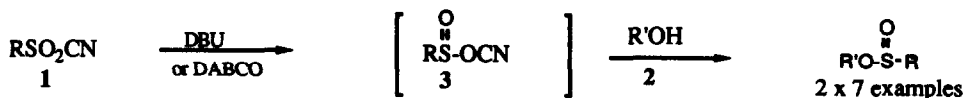


Tetrahedron, 1991, 47, 9167

**O-SULFINYLATION OF ALCOHOLS WITH
METHANESULFONYL CYANIDE OR
p-TOLUENESULFONYL CYANIDE.**

Derek H. R. Barton*, Joseph Cs. Jaszberenyi and Emmanouil A. Theodorakis,
Department of Chemistry, Texas A&M University, College Station, Texas 77843, USA

Primary, secondary and tertiary alcohols (2) have been O-sulfinylated with p-toluenesulfonyl cyanide or methanesulfonyl cyanide (1) in the presence of DBU or DABCO via sulfinyl cyanates (3) in 84-98% yield.

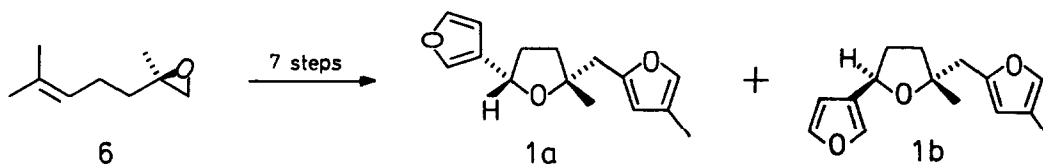


Tetrahedron, 1991, 47, 9179

**FIRST SYNTHESIS OF THE DIFURANSESQUITERPENE
ATHANASIN AND THE ELUCIDATION OF ITS
RELATIVE AND ABSOLUTE CONFIGURATION**

Guido Bojack and Hans Bornowski*
Institut für Organische Chemie der Technischen Universität Berlin
Straße des 17. Juni 135, W-1000 Berlin 12

The chiral oxirane **6** is successively connected with suitable furan building blocks. The resulting enantiomerically pure diastereomers **1a** and **1b** are separated and compared with the natural product

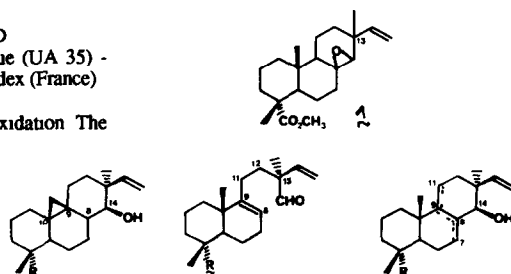


Tetrahedron, 1991, 47, 9187

**SYNTHESIS AND REARRANGEMENT OF METHYL-8,14β-EPOXYPIMARATE
TO OBTAIN CASSANE DITERPENIC SKELETON**

N. SAM, B. ARREGUY-SAN MIGUEL, M. TARAN et B. DELMOND
Institut du Pin - Laboratoire de Chimie Organique et Organométallique (UA 35) -
Université Bordeaux 1 - 351, cours de la Libération 33405 TALENCE Cedex (France)

Epoxy-pimarate **1** is obtained from pimonic acid via stereocontrolled epoxidation. The rearrangement of this epoxide led to new diterpene skeletons.

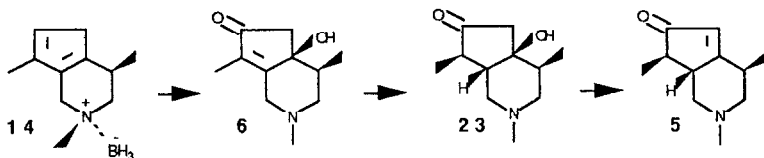


ALCALOIDES MONOTERPÉNIQUES III : SYNTHÈSE STÉRÉOSPÉCIFIQUE DE LA (±) ÉPI-7,7a TÉCOMANINE¹

Jean Pierre ALAZARD, Anne LEBOFF et Claude THAL

Institut de Chimie des Substances Naturelles, C N R S , 91198 GIF-SUR-YVETTE Cedex, France

The presence of a borane axial group in compound **14** induces a regio and stereospecific¹ O₂ cycloaddition. This result allows a short and stereospecific synthesis of the (±) epi-7,7a tecomanine **5**.

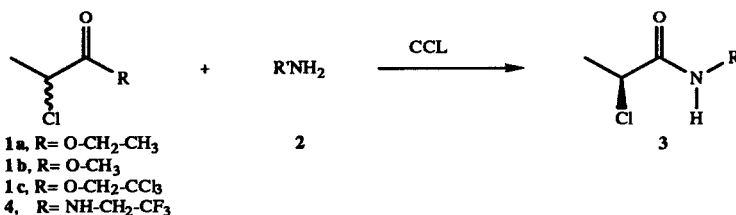


ENZYMATIC AMINOLYSIS AND TRANSAMIDATION REACTIONS

Vicente Gotor*, Rosario Brieua, Carmen González and Francisca Rebolledo

Departamento de Química Organometálica, Facultad de Química Universidad de Oviedo 33071 Oviedo Spain

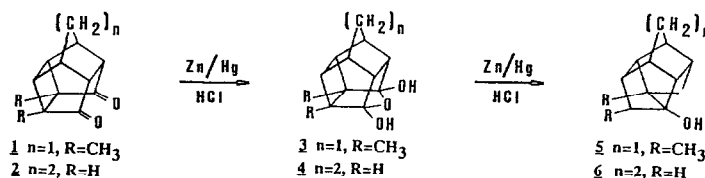
(S)-(-)-2-Chloropropionamides are obtained by *Candida cylindracea* lipase catalyzed aminolysis of (±)-2-chloropropionate ester or transamidation of (±)-N-(2,2,2-trifluoroethyl)-2-chloropropionamide. The aminolysis of ethyl (±)-2-methylbutyrate is carried out using CC and PS lipases as catalysts.



THE INFLUENCE OF HYDRATE FORMATION ON THE CLEMMENSEN REDUCTION OF PENTACYCLO[5.4.0.0^{2,7}.0^{3,10}.0^{5,9}]UNDECANE-8,11-DIONE AND PENTACYCLO[6.4.0.0^{2,7}.0^{3,11}.0^{6,10}]DODECANE-9,12-DIONE

Frans J. C. Martins*, Agatha M. Viljoen, Marinda Coetzee, Louis Fourie and Philipus L. Wessels.

Department of Chemistry, Potchefstroom University for CHE, Potchefstroom 2520, South Africa

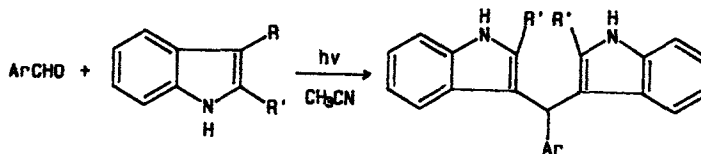


PHOTOCHEMICAL SYNTHESIS OF DIINDOLYLMETHANES

Maurizio D'Auria

Centro CNR per lo Studio della Chimica delle Sostanze Organiche Naturali, Dipartimento di Chimica, Università di Roma "La Sapienza", P.le A. Moro, 2, 00185 Roma Italy

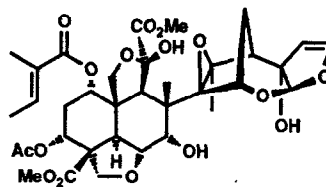
Photochemical coupling of aromatic aldehydes and indole to give title compounds is described.



CHEMISTRY OF INSECT ANTIFEEDANTS FROM AZADIRACHTA INDICA (PART II): CHARACTERISATION AND STRUCTURE ACTIVITY RELATIONSHIPS OF SOME NOVEL REARRANGED AZADIRACHTINS.

Steven V. Ley,* James C. Anderson, Wally M. Blancy, E. David Morgan, Richard N. Sheppard, Monique S.J. Simmonds, Alexandra M.Z. Slawin, Stephen C. Smith, David J. Williams, and Anthony Wood.

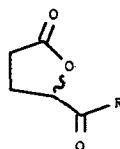
Several novel rearrangement reactions of the natural product azadirachtin and related derivatives have been characterised using a combination of x-ray crystallographic and high field nmr techniques. The insect antifeedant properties of these and a number of C7 modified compounds have been investigated.



ON THE MODE OF BAKER'S YEAST REDUCTION OF ENANTIOMERIC 4-ACYL BUTANOLIDES

Giovanni Fronza, Claudio Fuganti*, Piero Grasselli, Rosalino Pulido-Fernandez#, Stefano Servi, Auro Tagliani and Marco Terreni. Dipartimento di Chimica, Politecnico di Milano. 20133 Milano, ITALY and #Departamento de Quimica Organometallica, Universidad de Oviedo, SPAIN

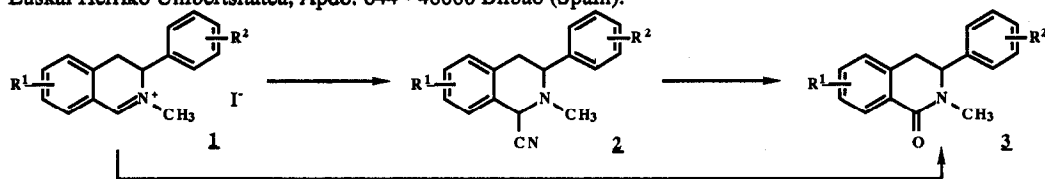
The baker's yeast reduction of homochiral and racemic ketones **1** is reported.



1

ON THE PREPARATION AND STRUCTURAL DETERMINATION OF 3-ARYLISOQUINOLINONES

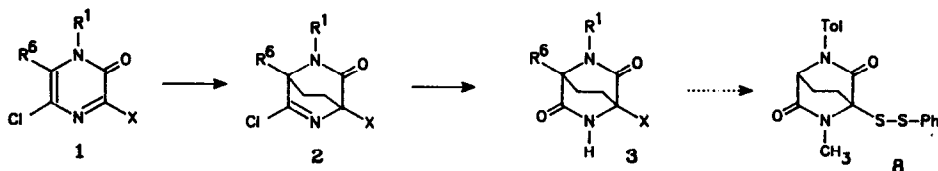
E. Domínguez, E. Martínez de Marigorta, L. Carrillo and R. Fañanás
 Departamento de Química Orgánica, Facultad de Ciencias, Universidad del País Vasco
 Euskal Herriko Unibertsitatea, Apdo. 644 - 48080 Bilbao (Spain).



CYCLOADDUCTS OF ETHENE WITH 2(1H)-PYRAZINONES AND THEIR CONVERSION INTO 2,5-DIAZABICYCLO[2.2.2]OCTANE-3,6-DIONES.

P. Loosen, M. Tutonda, M. Khorasani, F. Compennolle and G. Hoornaert*, Laboratorium voor Organische Synthese, Department of Chemistry, K.U.Leuven, Celestijnenlaan 200F, B-3001 Leuven (Belgium).

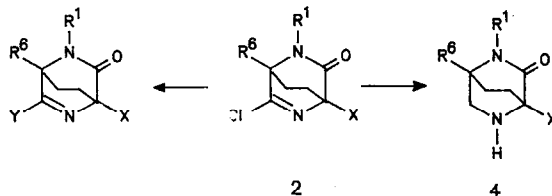
Cycloaddition of variously substituted 2(1H)-pyrazinones 1 with ethene and subsequent hydrolysis of the adducts 2 provides a general and efficient route to the title compounds 3. Compound 8 was prepared as a structural analogue of gliotoxin.



CYCLOADDUCTS OF ETHENE WITH 2(1H)-PYRAZINONES FUNCTIONALISATION AND REDUCTION TO 2,5-DIAZABICYCLO[2.2.2]OCTAN-3-ONES.

P. Loosen, M. Khorasani, S. Toppet and G. Hoornaert*, Laboratorium voor Organische Synthese, Department of Chemistry, K.U.Leuven, Celestijnenlaan 200F, B-3001 Leuven (Belgium).

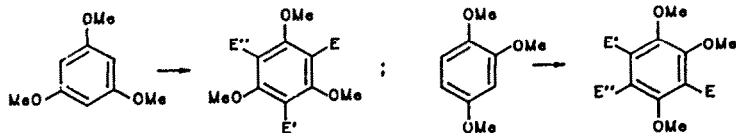
The title compounds 4 were prepared via Diels-Alder reaction of 3,5-dichloro-2(1H)-pyrazinones 1 with ethene, followed by catalytic reduction of the iminochloride group generated in the cycloadducts 2. Substitution of the chlorimino group with various nucleophiles afforded the 6-functionalised analogues of 2. Their reduction can lead to 6-substituted derivatives of compound 4. One example is given.



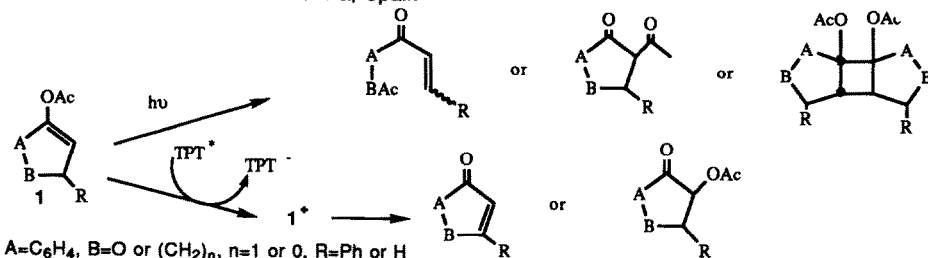
METALATION REACTIONS. XVI. POLYLITHIATION OF 1,3,5- AND 1,2,4-TRIMETHOXYBENZENE

Salvatore Cabiddu*, Liliانا Contini, Claudia Fattuoni, Costantino Floris and Gioanna Gelli
 Dipartimento di Scienze Chimiche, Università, Via Ospedale, 72, I-09124 Cagliari, Italy

Steric limits in the preparation of hexasubstituted benzenes by one-pot sequence of bimetalation/monometalation, or monometalation/bimetalation or three consecutive monometalations were investigated.


PHOTOLYSIS OF CYCLIC ENOL ESTERS IN THE PRESENCE OR ABSENCE OF A SINGLE ELECTRON TRANSFER PHOTOSENSITIZER

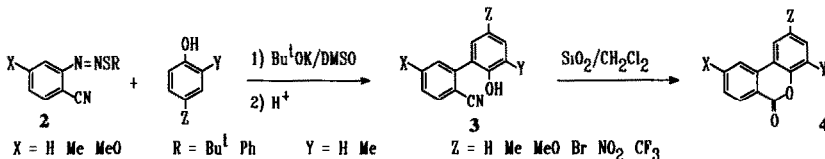
M J Climent, H García, S Iborra, M.A Miranda* and J Primo
 Universidad Politécnica de Valencia, Spain


S_{RN}1 C-ARYLATION OF PHENOLS BY AZOSULFIDES: A NOVEL SYNTHESIS OF DIBENZO[*b,d*]PYRAN-6-ONES

Giovanni Petrillo*, Marino Novi, Carlo Dell'Erba, and Cinzia Tavani

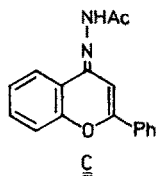
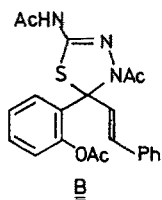
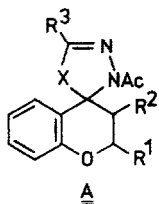
Istituto di Chimica Organica dell'Università and C N R Centro di Studio sui Diariloidi, Genova, Italy

A simple access to 4 is achieved via arylation of a phenol by a (2-cyanoaryl)azo *t*-butyl (or phenyl) sulfide 2, followed by lactonisation of the non-isolated biaryl 3 on silica-gel.



REACTIONS OF FLAVONOID THIOSEMICARBAZONES
UNDER ACETYLATED CONDITIONS

L. Somogyi; Research Group for Antibiotics (Hungary)



X = S, O

R¹ = H, PhR² = H, OAcR³ = AcHN, Ac₂N, Me

Upon acetylation, dihydrobenzopyrone and chalcone thiosemicarbazones transform into thiadiazolines (A, B), but acetylhydrazone C was obtained from flavone thiosemicarbazone under analogous conditions.