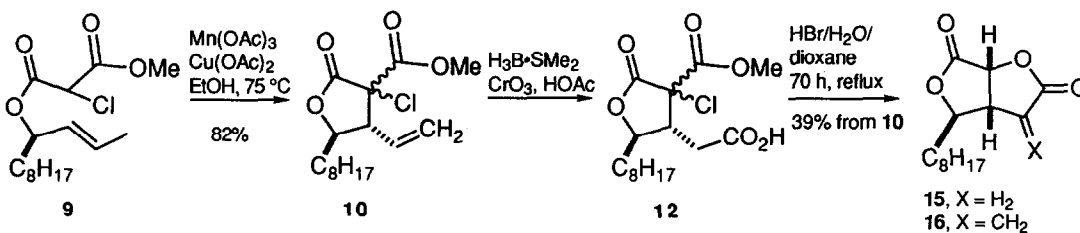


Tetrahedron, 1993, 49, 9447

Oxidative Free-Radical Cyclization of Allylic α -Chloromalonates.

Synthesis of (\pm)-Avenaciolide

Barry B. Snider and Bridget A. McCarthy, Department of Chemistry
Brandeis University, Waltham, MA 02254-9110, USA



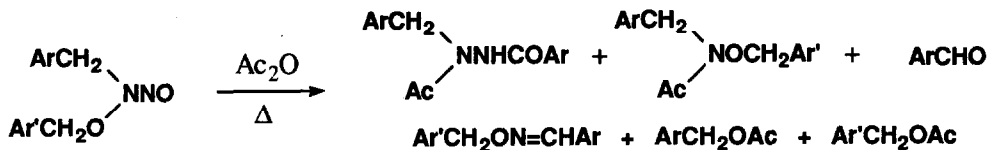
Tetrahedron, 1993, 49, 9453

N-NITROSOHYDROXYLAMINES III. REACTION OF N,O-DIBENZYL-N-NITROSOHYDROXYLAMINES WITH ACETIC ANHYDRIDE

Kunio Kano[†] and Jean-Pierre Anselme^{*}

Department of Chemistry, University of Massachusetts at Boston, Harbor Campus, Boston, MA 02125, USA

The formation of 1-acetyl-2-aroilybenzylhydrazines from the reaction of N,O-dibenzyl-N-nitrosohydroxylamines with acetic anhydride appears to proceed *via* initial radical cleavage of the N-N bond.

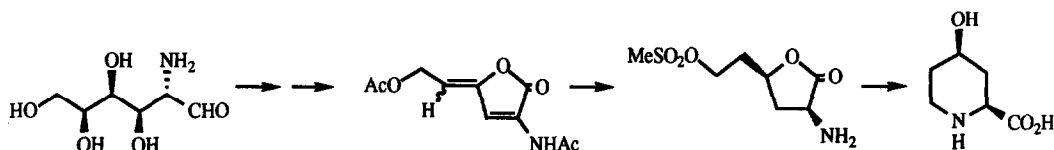


Tetrahedron, 1993, 49, 9459

DIASTEREOSELECTIVE SYNTHESIS OF CIS-4-HYDROXYPIPECOLIC ACID FROM D-GLUCOSAMINE.

Alejandro P. Niri, Oscar Varela* and Rosa M. de Lederkremer.

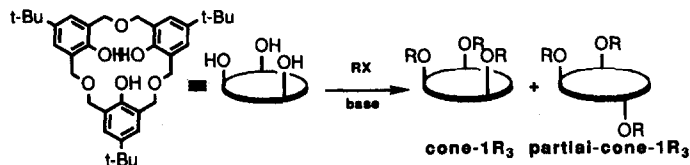
Departamento de Química Orgánica. Facultad de Ciencias Exactas y Naturales. Universidad de Buenos Aires. Ciudad Universitaria. Pabellón II, 1428, Buenos Aires (Argentina).



Conformational Isomerism in and Binding Properties to Alkali-Metals and an Ammonium Salt of *O*-Alkylated Homotrioxacalix[3]arenes.

Koji Araki, Kousuke Inada, Hideyuki Otsuka, and Seiji Shinkai*

Department of Organic Synthesis, Faculty of Engineering, Kyushu University, Fukuoka 812, Japan

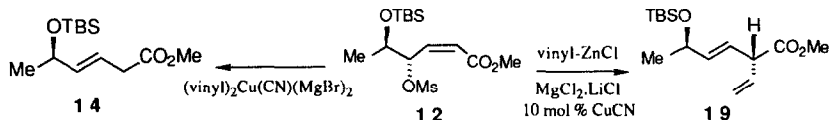


REMARKABLE DIFFERENCE IN REACTIVITY OF ORDINARY VINYL COPPER REAGENTS AND VINYLZINC HALIDE CONTAINING A COPPER SALT TOWARDS γ -MESYLOXY- α,β -ENOATES. SYNTHESIS OF HOMOCHIRAL 1,4-DIENES

Toshiro Ibuka,* Kazuo Nakai, Hiromu Habashita, Kiyoshi Bessho, and Nobutaka Fujii. Faculty of Pharmaceutical Sciences, Kyoto University, Kyoto 606, Japan

Yukiyasu Chounan and Yoshinori Yamamoto.* Department of Chemistry, Tohoku University, Sendai 980, Japan

Whereas reaction of the γ -mesyloxy- α,β -enoate **12** with ordinary organocopper reagents yielded only the reduction product **14** with an (*E*)-double bond at the β,γ -position, treatment of the same substrate with "higher order" zinc cuprate or vinylzinc halide by the addition of a catalytic amount of CuCN yielded the homochiral 1,4-diene **19**. In some cases, S_N2 products were also isolated as the minor products.

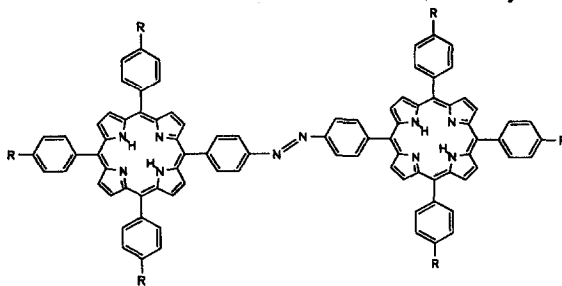


SYNTHESIS AND SPECTROSCOPIC INVESTIGATION OF DIRECTLY AZOBENZENE BRIDGED DIPORPHYRINS

Hermann K. Hombrecher* and Kerstin Lüdtko

Institut für Chemie der Medizinischen Universität zu Lübeck, Ratzeburger Allee 160, D-23538 Lübeck, Germany.

The synthesis of azobenzene bridged diporphyrins is described

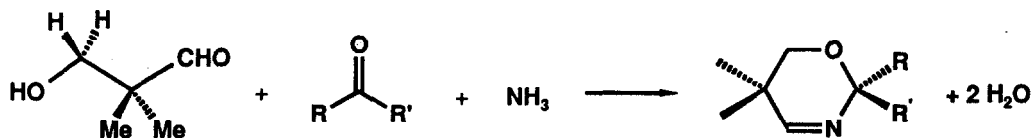


A NEW 5,6-DIHYDRO-2H-1,3-OXAZINE SYNTHESIS VIA ASINGER-TYPE CONDENSATION

Alexander Dömling and Ivar K. Ugi*

Organisch-Chemisches Institut I der Technischen Universität München, Lichtenbergstr. 4, 85747 Garching, Germany

A new one-pot synthesis of the title compound is described in several examples.

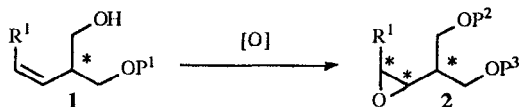


STEREODIVERGENT SYNTHESIS OF *CIS* EPOXIDES DERIVED FROM ASYMMETRIZED 2-ALKENYL-1,3-PROPANEDIOLS

Giuseppe Guanti,* Luca Banfi, Valeria Merlo, Enrica Narisano, and Sergio Thea

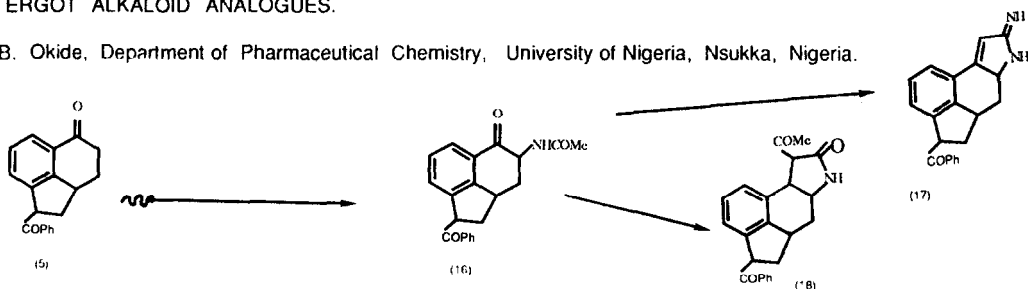
Istituto di Chimica Organica dell'Università & C. N. R., Centro di Studio per la Chimica dei Composti Cicloalifatici ed Aromatici, Corso Europa 26, I-16132 Genova (Italy)

Cis epoxides **2** of any desired absolute configuration can be achieved through a stereospecific epoxidation of monoprotected homochiral homoallylic diols **1**, in turn obtained in an enantiodivergent manner via a chemoenzymatic procedure.



EXPERIMENTS TOWARDS THE TOTAL SYNTHESIS OF FIVE-MEMBERED D-RING ERGOT ALKALOID ANALOGUES.

George B. Okide, Department of Pharmaceutical Chemistry, University of Nigeria, Nsukka, Nigeria.

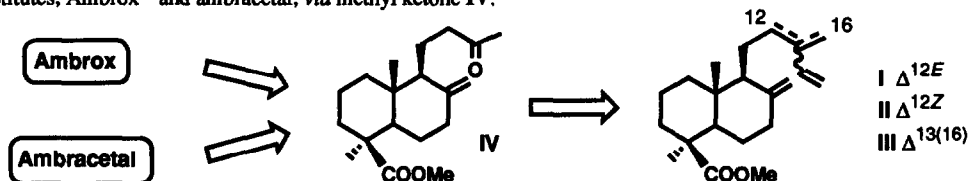


AMBER-TYPE ODORANTS FROM COMMUNIC ACIDS

Alejandro F. Barrero,* Joaquín Altarejos, Enrique J. Alvarez-Manzaneda,
José M. Ramos and Sofía Salido

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Granada, 18071 Granada (Spain)

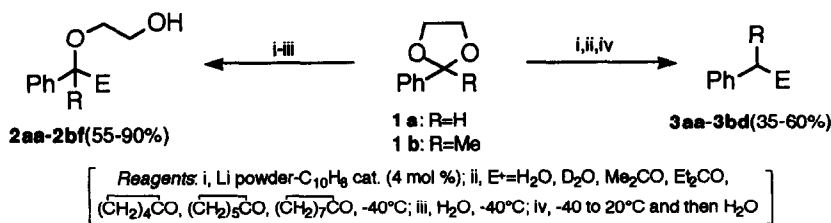
A mixture of the methyl esters of the three communic acids (I, II, III) has been used to prepare the ambergris substitutes, Ambrox® and ambracetal, via methyl ketone IV.



REDUCTIVE OPENING OF 2-PHENYL-1,3-DIOXOLANES
BY A NAPHTHALENE-CATALYSED LITHIATION: SYNTHETIC APPLICATIONS

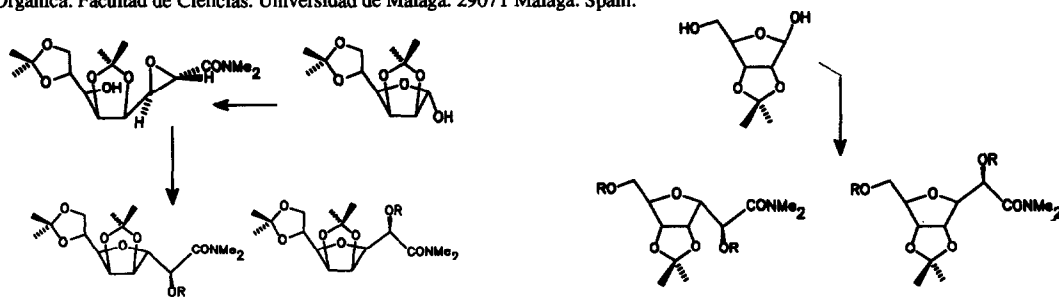
J. F. Gil, D. J. Ramón and M. Yus*

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apdo. 99, 03080 Alicante, Spain



REACTION OF MONOSACCHARIDE DERIVATIVES WITH STABILIZED
SULFUR YLIDES. A HIGHLY STEREOSELECTIVE SYNTHESIS FOR
C-GLYCOFURANOSIDES

María Valpuesta, Patricia Durante and Fidel J. López-Herrera. Departamento de Bioquímica, Biología Molecular y Química Orgánica. Facultad de Ciencias. Universidad de Málaga. 29071 Málaga. Spain.



**A CONVENIENT SYNTHESIS OF THIAZOLOPYRIMIDINES,
THIAZOLODIPYRIMIDINES AND HETEROCYCLOTHIAZOLO-
PYRIMIDINES**

Sherif M. Sherif, Mohamed M. Youssef, Khaled M. Mobarak and Abdel-Samei M. Abdel-Fattah*

Chemistry Department, Faculty of Science, University of Cairo, Giza, A.R.Egypt

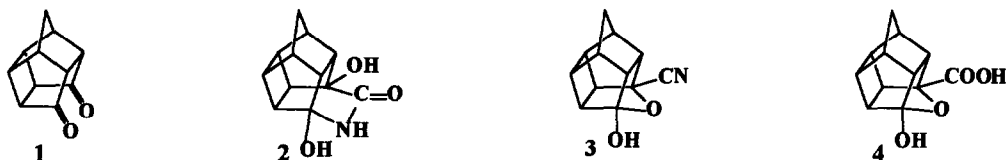
A variety of polyfunctionally substituted thiazolopyrimidines, thiazolodipyrimidines and heterocyclothiazolopyrimidines have been synthesized via the reaction of the pyrimidine-2-thione derivatives **1** with some bifunctional reagents.



SYNTHESIS OF 8,11-DIHYDROXY[5.4.0.0^{2,6}.0^{3,10}.0^{5,9}]UNDECANE-8,11-LACTAM

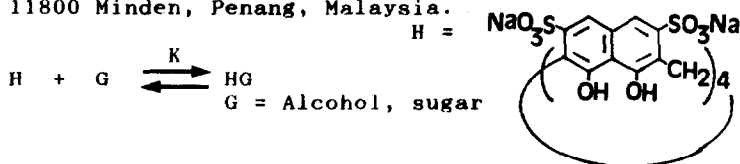
F.J.C. Martins, A.M. Vijoer, H.G. Kruger and J.A. Joubert, Department of Chemistry, Potchefstroom University for CHE, Potchefstroom 2520, South Africa.

Treatment of **1** with aqueous sodium cyanide produced **2**. The reaction proceeds via the intermediate **3**. Structures of **2** and **4** are elucidated from ¹H and ¹³C studies.



**CONTRIBUTION OF GUEST-HOST CH- π INTERACTION
TO THE STABILITY OF COMPLEXES FORMED FROM
CYCLOTETRACHROMOTROPYLENE AS HOST AND ALCOHOLS
AND SUGARS AS GUESTS IN WATER**

Bo-Long Poh[†] and Chi Ming Tan
School of Chemical Sciences, Universiti Sains Malaysia,
11800 Minden, Penang, Malaysia.

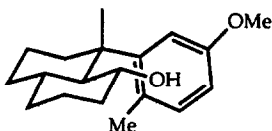


ASYMMETRIC SYNTHESSES WITH A NEW OPTICALLY ACTIVE PERHYDRONAPHTHALENE BASED CHIRAL AUXILIARY

David P.G. Hamon, Jeffrey W. Holman and Ralph A. Massy-Westropp

Department of Organic Chemistry, University of Adelaide,
GPO Box 498, Adelaide, SA, 50001, Australia

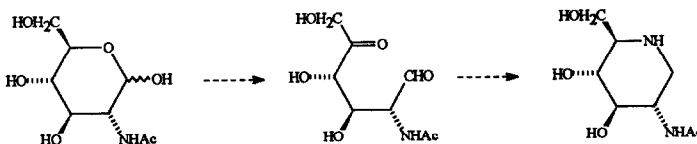
Esters of the conformationally restricted chiral auxiliary undergo highly diastereoselective reactions.



**2-ACETAMIDO-1,2-DIDEOXYNOJIRIMYCIN:
AN IMPROVED SYNTHESIS**

Richard H. Furneaux,* Graeme J. Gainsford, Gregory P. Lynch and Selwyn C. Yorke
Industrial Research Limited, PO Box 31-310, Lower Hutt, New Zealand.

The title compound was synthesised *via* a double reductive amination of a keto aldehyde readily obtainable from *N*-acetyl-D-glucosamine.



**ADDITION OF DIETHYLZINC TO ARYL ALDEHYDES CATALYZED BY
(1*S*,3*S*)-*N,N'*-BIS(BENZYL)-1,3-DIPHENYL-1,3-PROPANEDIAMINE AND
ITS DILITHIUM SALT: A MECHANISTIC RATIONALE INVESTIGATION**

Dario Pini, Alberto Mastantuono, Gloria Uccello-Barretta, Anna Iuliano and Piero Salvadori
Centro CNR, Dipartimento di Chimica e Chimica Industriale, Università di Pisa, Via Risorgimento 35, 56126 Pisa, Italy.

The addition of $ZnEt_2$ to aryl aldehydes using, as chiral ligands, (1*S*,3*S*)-**1a** and (1*S*,3*S*)-**1b** in catalytic amount, has been investigated. From 1H NMR and UV-CD data, experimental evidences about the structure of some reaction intermediates have been gained. A reasonable catalytic cycle is also proposed.

