

GRAPHICAL ABSTRACTS

Tetrahedron, 1992, 48, 2313

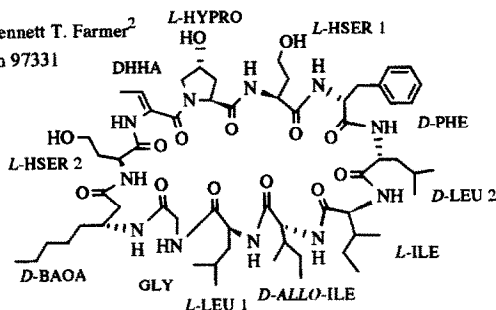
TOTAL STRUCTURE OF HORMOTHAMNIN A, A TOXIC CYCLIC UNDECAPEPTIDE FROM THE TROPICAL MARINE CYANOBACTERIUM *HORMOTHAMNION ENTEROMORPHOIDES*

William H. Gerwick^{1*}, Zhi D. Jiang¹, Santosh K. Agarwal¹ and Bennett T. Farmer²

¹ College of Pharmacy, Oregon State University, Corvallis, Oregon 97331

² Varian Instruments, Palo Alto, California 94303

The structure of hormothamnin-A from the tropical marine cyanobacterium *H. enteromorphoides* was determined by interpretation of high field NMR and FAB MS in combination with chemical methods.



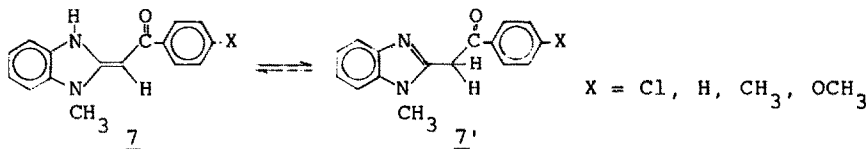
Tetrahedron, 1992, 48, 2325

THE SYNTHESIS AND TAUTOMERIZATION OF KETENE AMINALS WITH BENZIMIDAZOLINE RING

Zhi-Tang Huang* and Mei-Xiang Wang

Institute of Chemistry, Academia Sinica, Beijing, China

The benzimidazoline ring substituted ketene aminals **7** and their tautomers **7'** were synthesized by two ways, and the tautomeric equilibrium between **7** and **7'** were also investigated.

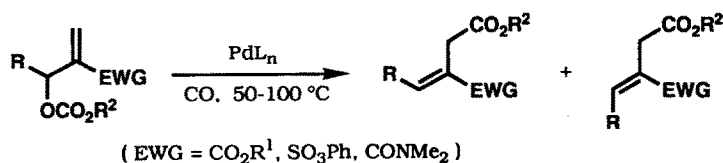


Tetrahedron, 1992, 48, 2333

Stereochemical Study on the Palladium(0)-Catalyzed Carbonylation of 3-(Methoxycarbonyloxy)-2-methylenealkanoates and Analogues

Shu-Zhong Wang, Keiji Yamamoto,* Haruo Yamada, and Takashi Takahashi
Tokyo Institute of Technology, O-okayama, Meguro, Tokyo 152, Japan

Stereoselectivity for *E* and *Z* isomers of the carbonylation products differs even inversely, depending remarkably on the EWG (CO₂Me: *E/Z* = 92 : 8; CONMe₂: *E/Z* = 30 : 70)



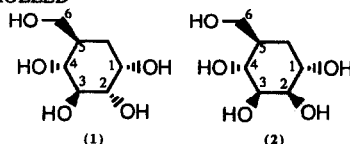
(-)-QUINIC ACID IN ORGANIC SYNTHESIS. 3. STEREOCONTROLLED SYNTHESSES OF PSEUDO- α -D-GLUCOPYRANOSE AND PSEUDO- α -D-MANNOPYRANOSE.

Tony K. M. Shing^{a*}, Yu-xin Cui^a and Ying Tang^b

^aDepartment of Chemistry, The Chinese University of Hong Kong, Shatin, Hong Kong.

^bDepartment of Chemistry, The Victoria University of Manchester, Manchester M13 9PL, U.K.

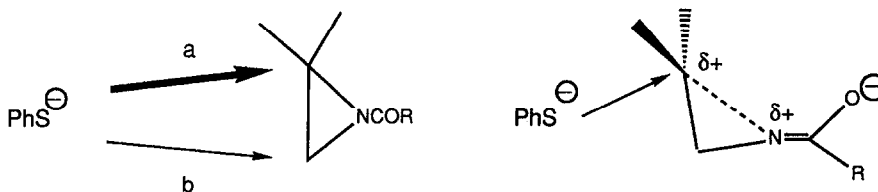
Pseudo- α -D-glucopyranose (1) and pseudo- α -D-mannopyranose (2) have been obtained from quinic acid in 12 and 11 steps respectively.



ACYLATED 2,2-DIMETHYLAZIRIDINES: REGIO-SELECTIVITY OF RING OPENING BY SODIUM THIOPHENOLATE; BORDERLINE S_N2 DUE TO PLANARIZATION OF NITROGEN PYRAMID

P.-Y. Lin, K. Bellos, H. Stamm^{*} and A. Onistschenko: Faculty Pharmacy, University, Neuenheimer Feld 346, D-6900 Heidelberg, Germany

Reaction a (a:b = 5-95) is ascribed to attack on a flattened aziridine.

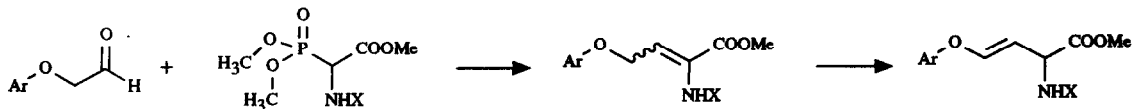


NEW NON PROTEOGENIC AMINOACIDS BEARING AN ENOL ARYL-ETHER MOIETY.

M. DAUMAS, L. Vo-QUANG, F. Le GOFFIC

Laboratoire de Bioorganique et Biotechnologies, URA CNRS 1386

ENSCP ; 11, rue P. et M. Curie ; 75231 PARIS Cedex 05 ; FRANCE

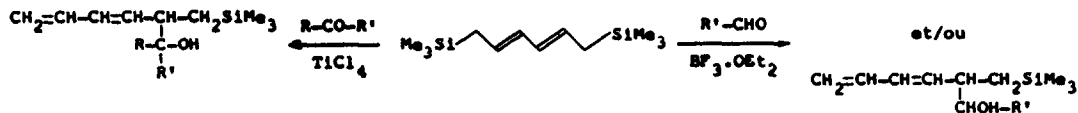
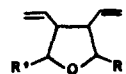


(2E, 4E)-1,6 BISTRIMETHYLSILYLHEXA-2,4-DIENE :
APPLICATION A LA SYNTHÈSE DE 3,4-DIVINYLOXOLANES

Corinne BROUARD, Jacques PORNET, Léone MIGINIAC*

Laboratoire de Synthèse Organique, UA 574 CNRS, Université de Poitiers,

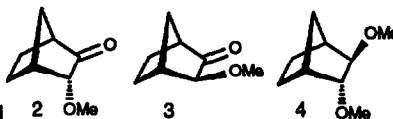
40, avenue du Recteur Pineau, 86022 POITIERS, France.



CONFORMATIONAL ANALYSIS OF α -METHOXYKETONES
A PHOTOELECTRON SPECTROSCOPIC INVESTIGATION
OF 3-METHOXYBICYCLO[2.2.1]HEPTAN-2-ONES.

Janine Cossy and Jean-Pierre Pète, Université de Reims;
 Rolf Gleiter and Alexander Flatow, Universität Heidelberg;
 Pierre-Alain Carrupt and Pierre Vogel,* Université de Lausanne

The photoelectron spectra of (2), (3) and (4) are analyzed and the most stable conformers about the C-OMe bond are determined with the help of AM1 and ab initio STO-3G calculations.



TELOMERES ET COTELOMERES D'INTERET BIOLOGIQUE
ET BIOMEDICAL VI* ACTIVITE CATALYTIQUE DES TELOMERES
DERIVES DU TRIS (HYDROXYMETHYL) ACRYLAMIDOMETHANE.

B.Boyer^{a)}, G.Lamaty^{a)}, J.M. Moussamou-Missima^{a)}, A.A. Pavia^{b)}, B. Pucci^{b)}, et J.P. Roque^{a)}.

^{a)}Université de Montpellier II, Place E. Bataillon, 34095 Montpellier Cedex 05, France.

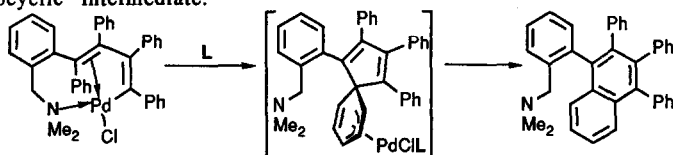
^{b)}Université d'Avignon, 33, rue Louis Pasteur, 84000 Avignon, France.

Telomeric surfactants derived from Tris-(hydroxymethyl)-acrylamidomethane (TAC) were investigated with respect to their catalytic properties on the base-catalyzed hydrolysis of *p*-nitrophenyl esters. In carbonate-buffered medium, TAC detergents enhance the reaction rate. In contrast, in a borate-buffered medium the presence of TAC results in the inhibition of the reaction as a consequence of the formation of tridentate complex.

FURTHER INSIGHT INTO THE MECHANISM OF THE PALLADIUM INDUCED CARBOCYCLISATION OF ARYL RINGS.

M. Pfeffer*, J.P. Sutter, M. A. Rotteveel (in part), A. De Cian and J. Fischer
Université Louis Pasteur 4, rue Blaise Pascal, 67070 STRASBOURG Cedex (France).

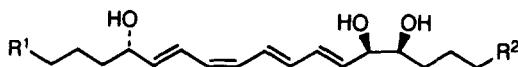
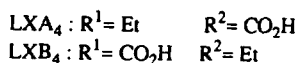
A likely mechanism for the annulation reaction of aryl rings is presented which involves the formation of a spirocyclic intermediate.



Lipoxins A₄ and B₄. Total Synthesis Including

Deprotection Studies. C. Gravier-Pelletier, J. Dumas, Y. Le Merer, J.-C. Depeyay. *Université René Descartes, Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques (URA 400 CNRS), 45, rue des Saints-Pères, 75270 Paris Cedex 06, France.*

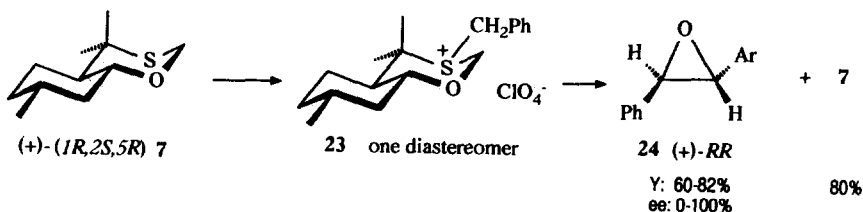
The total synthesis of LXA₄ and LXB₄ as well as of their all-*trans* isomers is reported. A study concerning the final steps of deprotection of silyl ether, cyclic carbonate and ethyl ester assisted by a high-speed scanning UV spectrophotometer has been carried out.



Chiral Sulfur-Reagent for the Preparation of Optically Active Epoxides

A. Solladié-Cavallo, A. Adib

Laboratoire de Stéréochimie Organométallique, EHICS, 1 rue B. Pascal, 67008 Strasbourg, France

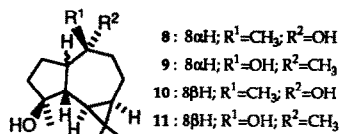
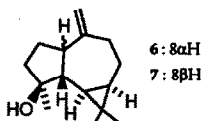
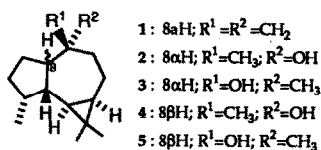


THE SYNTHESIS OF MONO- AND DIHYDROXY AROMADENDRANE SESQUITERPENES, STARTING FROM NATURAL (+)-AROMADENDRENE-III

H.J.M. Gijsen^a, J.B.P.A. Wijnberg^{a,*}, G.A. Stork^a, Ae. de Groot^{a,*}, M.A. de Waard^b and J.G.M. van Nistelrooy^b

^a Laboratory of Organic Chemistry, Agricultural University, Dreijenplein 8, 6703 HB Wageningen, The Netherlands

^b Laboratory of Phytopathology, Agricultural University, Binnenhaven 9, 6709 PD Wageningen, The Netherlands



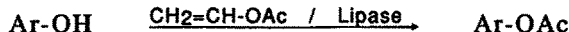
Compounds 2-11 have been synthesized from natural (+)-aromadendrene 1, and have been tested for antifungal activity against two different fungi.

ACETYLTATION OF PHENOLS IN ORGANIC

SOLVENT CATALYZED BY A LIPASE FROM CHROMOBACTERIUM VISCOSUM

Giovanni Nicolosi*, Mario Piattelli and Claudia Sanfilippo

Istituto CNR Sostanze Naturali, via del Santuario 110, 95028 Valverde, Catania, Italy

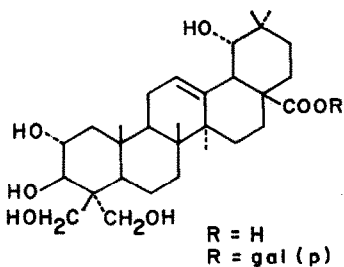
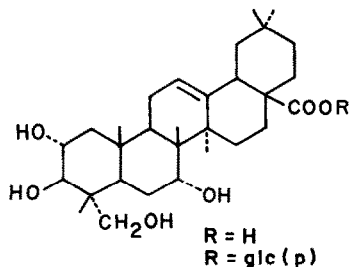


Chromobacterium viscosum lipase, adsorbed on inert support, was employed as catalyst for the esterification of monohydric phenols with vinyl acetate as acyl donor.

PENTACYCLIC TRITERPENOID SAPOGENOLS AND THEIR GLYCOSIDES FROM TERMINALIA BELLERICA.

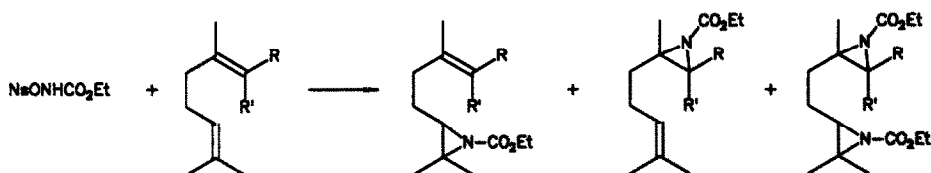
Shashi B. Mahato*, Ashoke K. Nandy and Asish P. Kundu

Indian Institute of Chemical Biology, 4 Raja S.C. Mullick Road, Jadavpur, Calcutta-700032, India.



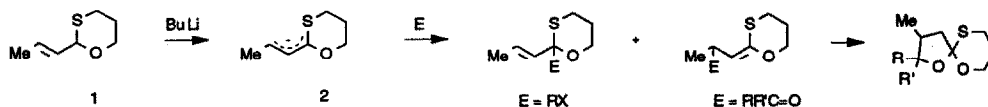
Regioselective Amination of Polyunsaturated EthersGiorgio Cerichelli,^a Alessandro Freddi,^b M. Antonietta Loreto,^bLucio Pellacani,^b and Paolo A. Tardella^b^aCentro di Studio sui Meccanismi di Reazione del CNR, c/o Dipartimento di Chimica, Università "La Sapienza", ^bDipartimento di Chimica, Università "La Sapienza", P.le Aldo Moro 2, I-00185 Roma, Italy

(Ethoxycarbonyl)nitrene adds to geranyl and neryl derivatives mainly to the double bond far from the oxygen atom.

**REACTIONS OF OXATHIO-SUBSTITUTED CROTYLLITHIUM WITH ALKYL HALIDES AND CARBONYL COMPOUNDS. AN EXAMPLE OF AN AMBIDENT NUCLEOPHILE**

Roberto Bellato, Antonella Gatti, Paolo Venturello*

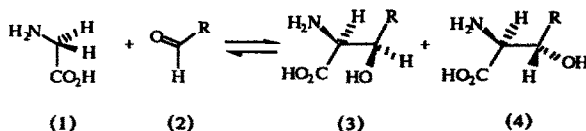
- Istituto di Chimica Organica dell' Università di Torino, Via P. Giuria, 7 10125 Torino, Italy -

The anion **2** obtained by 2-(1-propenyl)-1,3-oxathiane **1** reacts with alkyl halides at the α terminus; on the contrary, carbonyl compounds afford addition products at the γ terminus. The γ -adducts cyclize to spiro oxathianes.**SYNTHESIS OF L- β -HYDROXYAMINOACIDS USING SERINE HYDROXYMETHYLTRANSFERASE**

Ashraf Saeed and Douglas W. Young*

School of Chemistry and Molecular Sciences, University of Sussex, Falmer, Brighton BN1 9QJ

The enzyme serine transhydroxymethylase has been used synthetically to catalyse carbon-carbon bond formation with the creation of two new chiral centres. The resultant β -hydroxyaminoacids were shown to have L- stereochemistry at the α -centre, but stereospecificity was not high at the β - centre.

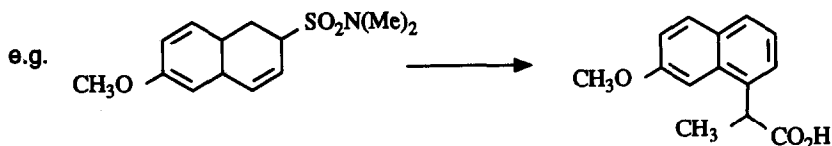


**Structure Determination of Substituted Naphthalenes
by Nuclear Overhauser Enhancement Measurements**

D. Becker* and H. J. L. Loewenthal

Department of Chemistry, Technion - Israel Institute of Technology, Haifa 32000, Israel

The structure determination by ^1H N.O.E. of a number of substituted naphthalenes obtained in the course of reactions of uncertain outcome has been described.



**PHOTOCHEMICAL DIMERIZATION OF METHOXY
SUBSTITUTED CINNAMIC ACID METHYL ESTERS**

M. D'Auria and A. Vantaggi

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

