

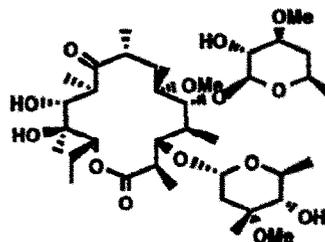
GRAPHICAL ABSTRACTS

Tetrahedron Letters, 1994, 35, 3837

Chemical Modification of Erythromycin: Novel Reaction Observed by Treatment with Metalloporphyrins

Joseph E. Celebuski, Mukund S. Chorghade* and Elaine C. Lee
Chemical and Agricultural Products Division, Abbott Laboratories,
Abbott Park, Illinois 60064.

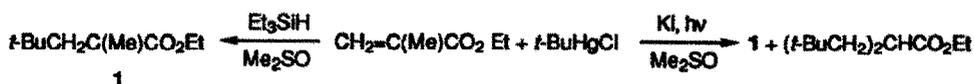
Reaction of erythromycin and other macrolides with metalloporphyrins and exogenous co-oxidants leads to replacement of the N-dimethyl moiety in the desosamine sugar with complete retention of configuration.



Tetrahedron Letters, 1994, 35, 3841

REDUCTIVE ALKYLATIONS INVOLVING 2°- AND 3°-ENOLYL ADDUCT RADICALS. Glen A. Russell* and Bing Zhi Shi, Department of Chemistry, Iowa State University, Ames, IA 50011 USA

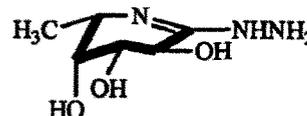
Reductive alkylation of α,β -unsaturated carbonyls occurs in Me_2SO upon reaction with alkylmercury halides and silyl hydrides. Towards *t*-Bu*, *s*-*cis* enones are more reactive than *s*-*trans*.



Tetrahedron Letters, 1994, 35, 3845

A NOVEL INHIBITOR OF HUMAN α -L-FUCOSIDASE: ENANTIOSELECTIVE SYNTHESIS OF L-FUOCOAMIDRAZONE

David J. A. Schedler,[‡] Benjamin R. Bowen[‡] and Bruce Ganem^{†*}
[‡]Department of Chemistry, Baker Laboratory
Cornell University, Ithaca, NY 14853-1301 USA
[†]Pharmaceuticals Division, CIBA-GEIGY Corporation
Summit, NJ 07901 USA



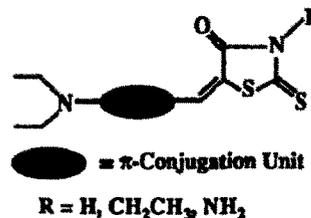
The L-fucoamidrazone shown is a competitive inhibitor of human α -L-fucosidase ($K_i = 820 \text{ nM}$)

Tetrahedron Letters, 1994, 35, 3849

Rhodanine-methine as π -Electron Acceptor in Second-order Nonlinear Optical Chromophores

V. Pushkara Rao*, Alex K-Y. Jen and J. B. Caldwell
EniChem America Inc., Research and Development Center
2000 Cornwall Road, Monmouth Junction, New Jersey 08852, U. S. A.

Abstract: Experimental EFISH studies indicate that rhodanine-methine group is more effective than the well known nitro group as an electron-acceptor in enhancing the molecular nonlinear optical activity of the push-pull conjugated compounds.

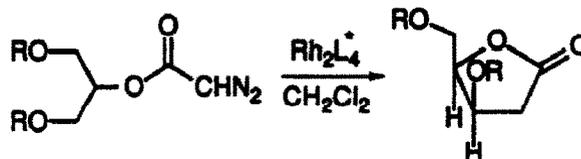


SYNTHESIS OF 2-DEOXYXYLOLACTONE FROM GLYCEROL DERIVATIVES VIA HIGHLY ENANTIOSELECTIVE CARBON-HYDROGEN INSERTION REACTIONS.

Tetrahedron Letters, 1994, 35, 3853

Michael P. Doyle, Alexey B. Dyatkin, and Jason S. Tedrow,
Department of Chemistry, Trinity University, San Antonio, TX 78212.

Diazodecomposition of 1,3-dialkoxy-2-propyl diazoacetates catalyzed by chiral dirhodium(II) carboxamides forms 3,5-dialkyl 2-deoxyxylo-lactones in up to 98% enantiomeric excess; 2-deoxyxylo-lactone is produced by hydrogenolysis of the dibenzyl derivative.



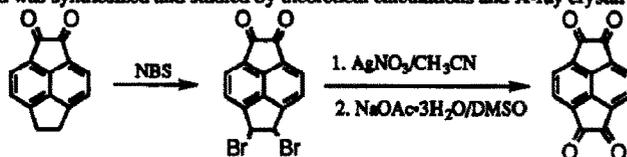
1,2,5,6-TETRAKETOPYRACENE: SYNTHESIS, AND STRUCTURE

Tetrahedron Letters, 1994, 35, 3857

BY AB INITIO CALCULATION AND X-RAY ANALYSIS. Atteya H.

Abdourazak, Zbigniew Marcinow, Haskell E. Folsom, Frank R. Fronczek, Renata Sygula, Andrzej Sygula and Peter W. Rabideau, Department of Chemistry, Louisiana State University, Baton Rouge, LA 70803, USA

The title compound was synthesized and studied by theoretical calculations and X-ray crystal structure determination.

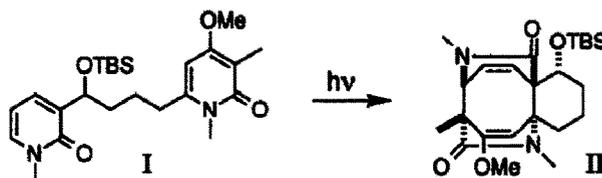


The BC Rings of Taxol by [4+4] Photocycloaddition

Tetrahedron Letters, 1994, 35, 3861

Scott McN. Sieburth* and K. Ravindran
Department of Chemistry,
State University of New York at Stony Brook
Stony Brook, New York 11794-3400 USA

Bis-2-pyridone I photoisomerizes to [4+4] product II as a single isomer containing both quaternary carbons of taxol.



FREE RADICAL-BASED ANNULATION OF ALKENES YIELDING FUSED CYCLOHEPTANONES

Tetrahedron Letters, 1994, 35, 3865

Wei Zhang, Ye Hua, Garrett Hoge and Paul Dowd*

Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260 USA



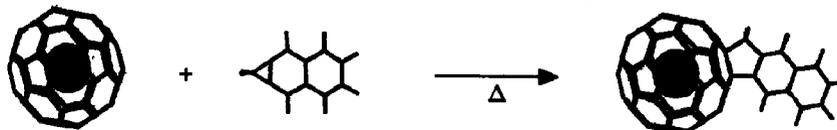
Stereospecific annulation of cyclic alkenes for the preparation of *cis*-fused seven-membered ring systems was accomplished by sequential [2 + 2] cycloaddition, *exo*-allylation, hydrohalogenation, and free radical ring expansion.

REACTION OF CYCLOPROPA[*b*]NAPHTHALENE WITH $^3\text{He}@\text{C}_{60}$.

Martin Saunders,* Hugo A. Jiménez-Vázquez, R. James Cross,* Department of Chemistry, Yale University, New Haven, CT 06520 USA. Edward Billups,* Christoph Geseberg, and Dianne J. McCord, Department of Chemistry, Rice University, Houston, TX 77251 USA.

Tetrahedron Letters, 1994, 35, 3869

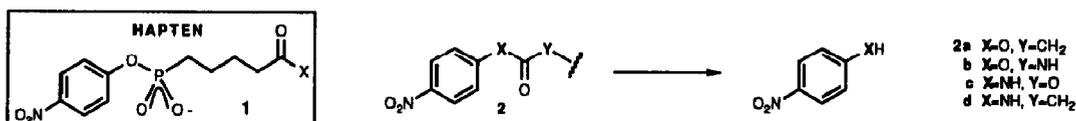
The C_{60} adduct obtained by the reaction shown in the scheme has been characterized by ^1H , ^{13}C , and ^3He NMR.

**CATALYSIS OF CARBAMATE HYDROLYSIS BY AN ANTIBODY.**

David L. Van Vranken, Demetra Panomitros and Peter G. Schultz*, Department of Chemistry, University of California, Berkeley, CA 94720 USA.

Tetrahedron Letters, 1994, 35, 3873

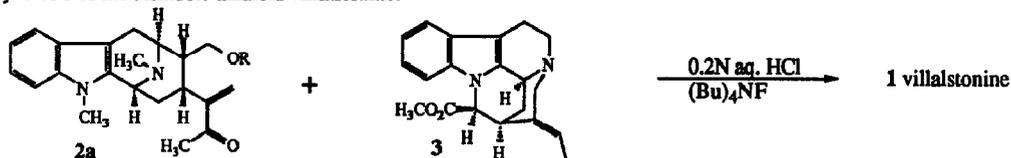
Antibodies to phosphonate **1** catalyze the hydrolysis of **2a** and **2b** but not **2c** and **2d**.

**A PARTIAL SYNTHESIS OF THE ALSTONIA BISINDOLE ALKALOID**

VILLALSTONINE. Yingzhi Bi and J.M. Cook,* Department of Chemistry, UW-Milwaukee, Milwaukee, WI 53201. Philip LeQuesne, Department of Chemistry, Northeastern University, Boston, MA 02115

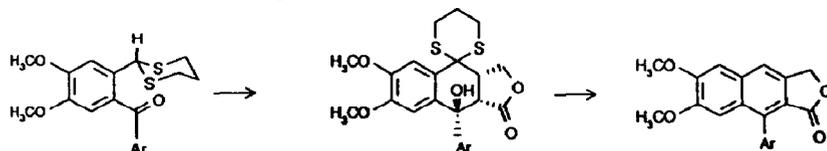
Tetrahedron Letters, 1994, 35, 3877

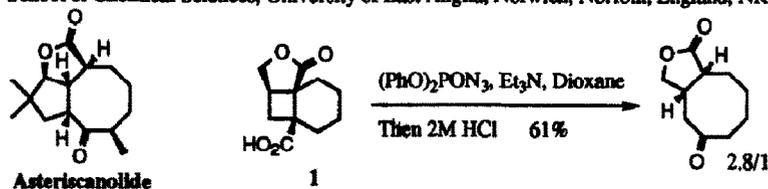
The synthetic macroline equivalent **2a** has been condensed with plant-derived pleiocarpamine **3** in stereospecific fashion to provide a partial synthesis of the bisindole alkaloid villalstonine.

**A Rapid Entry into Podophyllotoxin Congeners: Synthesis**

of Justicidin B. Ahmed Kamal*, Mohsen Daneshtalab, Faculty of Pharmacy, University of Alberta, Edmonton, Canada T6G 2N8
Ronald G. Micetich, SynPhar Laboratories Inc., Edmonton, Canada T6E 5V2

Tetrahedron Letters, 1994, 35, 3879

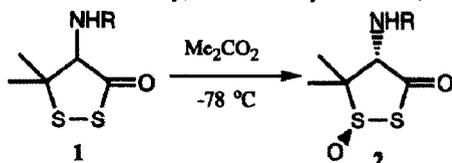


Model Studies Towards the Total Synthesis of Asteriscanolide*Tetrahedron Letters*, 1994, 35, 3883Kevin I. Booker-Milburn^{a*}, Justin K. Cowell^b and Laurence J. Harris^a^aDepartment of Chemistry, University of Salford, Salford, England M5 4WT, U.K.^bSchool of Chemical Sciences, University of East Anglia, Norwich, Norfolk, England, NR4 7TJ, UK

Model studies towards the Asteriscanolide skeleton are described. The key step involves the combination of a Curtius rearrangement/delMayo fragmentation of the acid lactone 1.

DIASTERESELECTIVE OXIDATION OF SUBSTITUTED 1,2-DITHIOLAN-3-ONES.Richard S. Glass^a and Yunqi Liu

Department of Chemistry, The University of Arizona, Tucson, AZ 85721

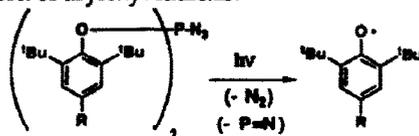


Oxidation of 1 with dimethyldioxirane at -78 °C in CH₂Cl₂ affords 2 in high yield with up to 18:1 diastereoselectivity favoring the trans isomer.

Tetrahedron Letters, 1994, 35, 3887**CONVENIENT UNIMOLECULAR SOURCES OF ARYLOXYL RADICALS.****III – PHOTOLYSIS OF BIS(ARYLOXY)PHOSPHINE AZIDES.**by Rajdeep Kalgutkar, Alexey S. Ionkin, Louis D. Quin, and Paul M. Lahti^{*}

Department of Chemistry, University of Massachusetts, Box 34510, Amherst, MA 01003 USA

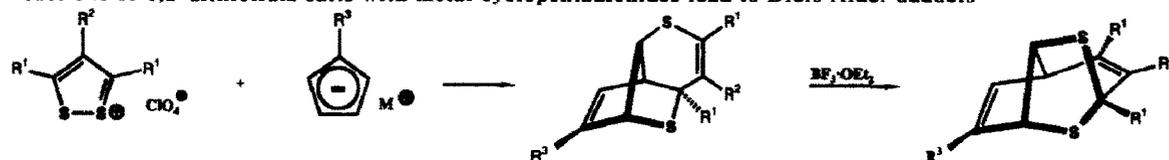
Photolysis of sterically hindered bis(aryloxy)phosphine azides in solution, frozen matrix, or neat solid states leads to facile production of aryloxy radicals.

*Tetrahedron Letters*, 1994, 35, 3889**INTRAMOLECULAR DIELS ALDER ADDUCTS FROM 1,2-DITHIOLIUM SALTS AND METAL CYCLOPENTADIENIDES**

Klaus Hartke, Andreas Kraska, Werner Massa, S. Molinier, and S. Wocadlo

Institut für Pharmazeutische Chemie and Fachbereich Chemie, D-35032 Marburg/Lahn, Germany

Reactions of 1,2-dithiolium salts with metal cyclopentadienides lead to Diels Alder adducts

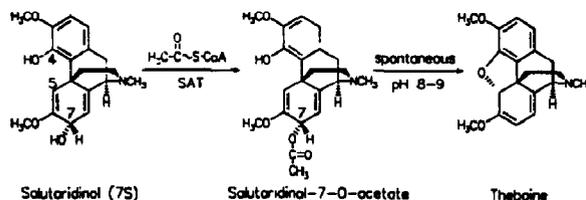
*Tetrahedron Letters*, 1994, 35, 3893

CLOSURE OF THE OXIDE BRIDGE IN MORPHINE BIOSYNTHESIS

Rainer Lenz and Meinhard H. Zenk; Lehrstuhl für Pharmazeutische Biologie,

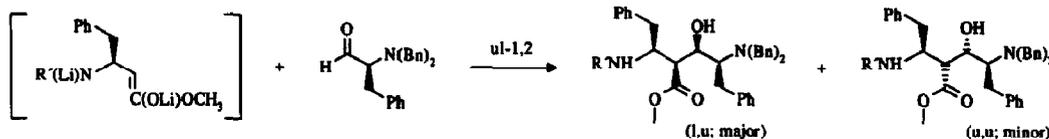
Universität München, Karlstrasse 29, 80333 München, Germany;

A specific enzyme (SAT) was purified to homogeneity catalyzing the formation of 7-O-acetyl-salutaridinol which spontaneously rearranges to thebaine by closing the oxide bridge in morphine biosynthesis.

Tetrahedron Letters, 1994, 35, 3897**Addition of Dithiated Methyl-3-Aminobutanoate to****Aldehydes Proceeds with ul-1,2-Induction. Peter Ettmayer,**

Michael Hübner and Hubert Gstach, Sandoz Forschungsinstitut, Brunnerstraße 59; A-1235 Vienna, Austria.

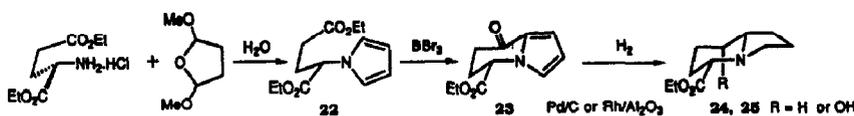
Syntheses of 2-substituted-1-hydroxyethylene building blocks, useful as the central moiety of HIV-1 protease inhibitors, is described.

Tetrahedron Letters, 1994, 35, 3901**AN ENANTIOSPECIFIC ENTRY TO INDOLIZIDINES BY INTRA-MOLECULAR ACYLATION OF N-PYRROLE ESTERS**

C.W. Jefford, S.R. Thornton, and K. Sienkiewicz, Department of Organic Chemistry,

University of Geneva, 1211 Geneva 4, Switzerland

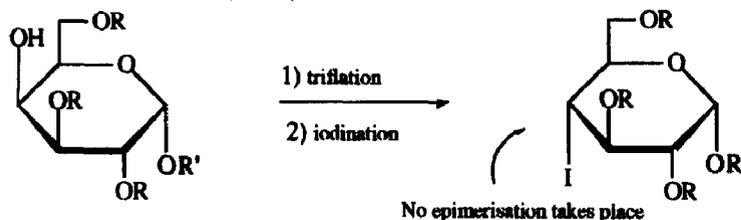
Diethyl L-glutamate hydrochloride was converted to its N-pyrrole derivative 22 by reaction with 2,5-dimethoxytetrahydrofuran.

Cyclization of 22 by BBr_3 to 23 followed by catalytic hydrogenation affords mainly indolizidines 24 or 25*Tetrahedron Letters, 1994, 35, 3905***Synthesis of 4-iodo-4-deoxy-D-glucose.**

Gilles Bignan, Christophe Morin * and Michel Vidal

LEDSS, Chimie Recherches, Bâtiment 52

Université de Grenoble, 38402 Saint Martin d'Hères (France).

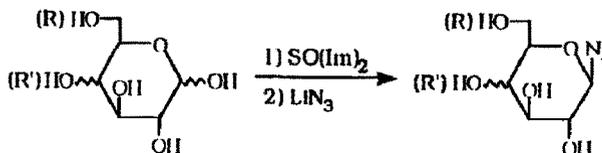
Tetrahedron Letters, 1994, 35, 3909

ONE-POT STEREOSELECTIVE SYNTHESIS OF GLYCOSYL AZIDES *via* 1,2-CYCLIC SULFITE.

Tetrahedron Letters, 1994, 35, 3913

Ahmed El Meslouti, Daniel Beaupère, Gilles Demailly and Raoul Uzan
Laboratoire de Chimie Organique, Groupe de Valorisation des Glucides, Faculté des Sciences,
33, rue St Leu - 80039 AMIENS (France) - Fax : 22.82.75.76

In a one-pot procedure, treatment of partially or unprotected aldoses with *N,N'*-thionyl-diimidazole and then, lithium azide leads stereoselectively to glycosyl azides.

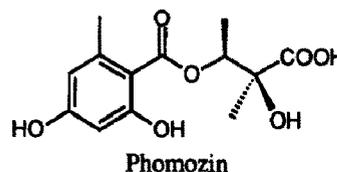


Synthesis and Absolute Configuration of Phomozin

Tetrahedron Letters, 1994, 35, 3917

Nicolas Vicart, Jean-Yves Ortholand, Gilbert Y. Emeric, Alfred Greiner*
Rhône Poulenc Agrochimie, Centre de Recherche de la Dargoire, BP 9163 F-69263 Lyon CEDEX 09, France

Abstract: The absolute configuration of the fungal phytotoxin phomozin has been unambiguously determined by the synthesis of its two enantiomers.

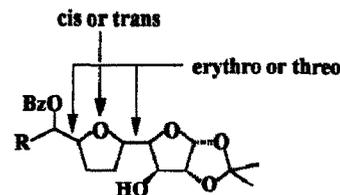


¹H NMR ANALYSIS AND CONFORMATION OF BIS-TETRAHYDROFURANS RELATED TO ANNONACEOUS ACETOGENINS.

Tetrahedron Letters, 1994, 35, 3919

L. Autissier, P. Bertrand, J.-P. Gesson* and B. Renoux, Laboratoire de Chimie 12
Associé au CNRS, 40, Avenue du Recteur Pineau, F-86022 Poitiers.

The conformation of diastereoisomeric bis-tetrahydrofurans related to annonaceous acetogenins are deduced from ¹H NMR.



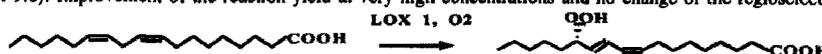
PRODUCTION OF 13(S)-HYDROPEROXY-9(Z),11(E)-OCTADECADIENOIC ACID USING SOYBEAN LIPOXYGENASE 1 IN A BIPHASIC OCTANE-WATER SYSTEM.

Tetrahedron Letters, 1994, 35, 3923

Philippe Drouet*, Daniel Thomas and Marie Dominique Legoy.

L.T.E. U.T.C. BP 649. 60206 Compiègne. France.

Synthesis of 13(S)-Hydroperoxy-9(Z),11(E)-octadecadienoic acid with soybean lipoxygenase in a biphasic medium (octane; borate buffer, pH 9.6). Improvement of the reaction yield at very high concentrations and no change of the regioselectivity.

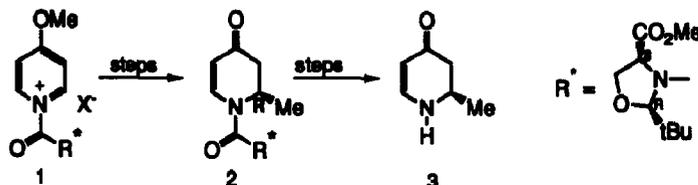


A SIMPLE ASYMMETRIC SYNTHESIS OF 2-SUBSTITUTED-2,3-DIHYDRO-4-PYRIDONES.

Tetrahedron Letters, 1994, 35, 3927

J. Streith*, A. Boiron, T. Sifferlen, C. Strehler, and T. Tschamber.
Ecole Nationale Supérieure de Chimie, Université de Haute-Alsace
3, rue Alfred Werner F-68093 Mulhouse, France.

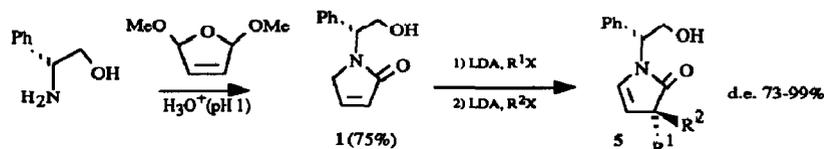
Asymmetric methylation of 1 was achieved with *d.e.*=95% and gave enantiopure 3 in good yield.



DIASTEREOSELECTIVE BIS-ALKYLATION OF CHIRAL NON-RACEMIC α,β -UNSATURATED γ -LACTAMS.

Tetrahedron Letters, 1994, 35, 3931

Isabelle Baussanne, Angèle Chiaroni, Henri-Philippe Husson, Claude Riche and Jacques Royer*
Institut de Chimie des Substances Naturelles, CNRS, 1 Avenue de la Terrasse, 91198 Gif-sur-Yvette Cedex, France

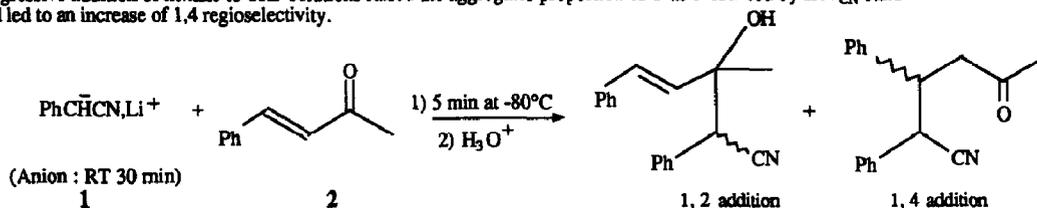


EFFECT OF AGGREGATION OF NITRILE ANIONS ON THE 1,2 VERSUS 1,4 REGIOSELECTIVITY TOWARDS BENZYLIDENEACETONE.

Tetrahedron Letters, 1994, 35, 3935

T. Strzalko, J. Seyden-Penne, L. Wartski* and F. Froment, J. Corset
Institut de Chimie Moléculaire d'Orsay, Laboratoire des Carbocycles, Université de Paris-Sud, 91405 Orsay (France)
and LASIR - CNRS, BP 28, 94320 Thiais

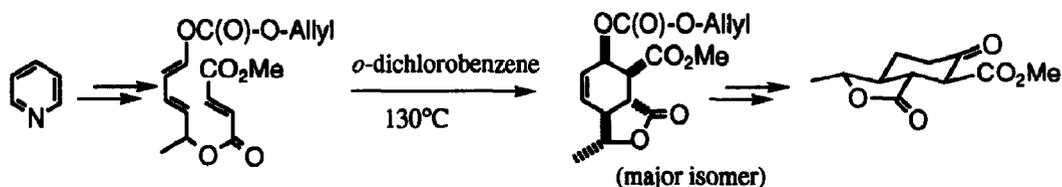
Progressive addition of hexane to THF solutions raised the aggregates proportion of 1 as evidenced by IR ν_{CN} band and led to an increase of 1,4 regioselectivity.



A C-B-A-D APPROACH TO BRASSINOSTEROIDS; OBTENTION OF A C-RING PRECURSOR FROM PYRIDINE.

Tetrahedron Letters, 1994, 35, 3937

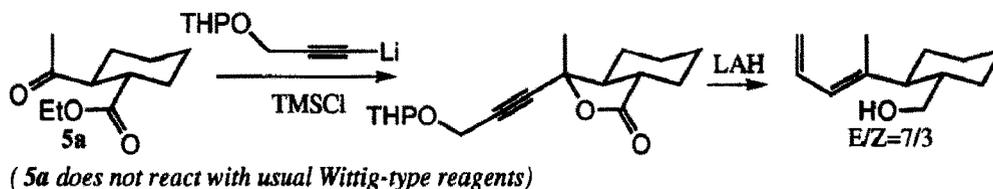
Laurence Berthon, Abdellah Tahri and Daniel Uguen*, Laboratoire de Synthèse Organique, E.H.I.C.S., 67008 Strasbourg (France)



**A C-B-A-D APPROACH TO BRASSINOSTEROIDS;
OBTENTION OF A A-B-C RING SYSTEM PRECURSOR.**

Tetrahedron Letters, 1994, 35, 3941

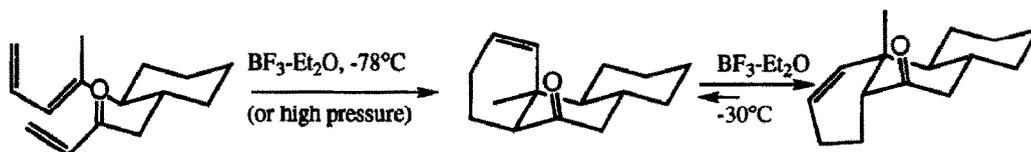
Rachel Dizière, Abdellah Tahri and Daniel Uguen*, Laboratoire de Synthèse Organique, E.H.I.C.S.,
67008 Strasbourg (France)



**A C-B-A-D APPROACH TO BRASSINOSTEROIDS;
GENERATION OF THE A-B-C RING SYSTEM.**

Tetrahedron Letters, 1994, 35, 3945

Abdellah Tahri and Daniel Uguen*, Laboratoire de Synthèse Organique, E.H.I.C.S., 67008 Strasbourg (France)
André De Cian and Jean Fischer, Laboratoire de Cristalochimie, ULP, 67070 Strasbourg (France)



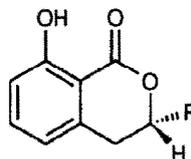
**Isolation, Structure Determination and Synthesis of
New Dihydroisocoumarins from *Ginkgo biloba* L.**

Tetrahedron Letters, 1994, 35, 3949

Noureddine Choukchou-Braham¹, Yoshinori Asakawa² and Jean-Pierre Lepoittevin^{1*}

¹ Laboratoire de Dermatichimie associé au CNRS, Université Louis Pasteur, Clinique Dermatologique, CHU, F-67091 Strasbourg, France.
² Pharmacognosy Laboratory, Tokushima Bunri University, Yamashiro-Cho, Tokushima, 770 Japan.

New optically active 8-hydroxy-3-alk(en)yl-3,4-dihydroisocoumarins **2a-c** were isolated from *Ginkgo biloba* L. fruits. The absolute configuration was determined to be R by comparison with both enantiomers of the 8-hydroxy-3-tridecyl-3,4-dihydroisocoumarin synthesized from optically active epichlorhydrins.



2a R = C₁₃H₂₇
2b R = C₁₅H₂₉
2c R = C₁₇H₃₁

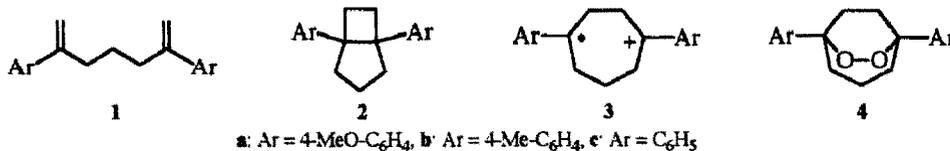
**ELECTRON-TRANSFER INDUCED INTRAMOLECULAR
[2 + 2] CYCLOADDITION OF 2,6-DIARYLHEPTA-1,6-DIENES.**

Tetrahedron Letters, 1994, 35, 3953

Yasutake Takahashi, Osamu Okitsu, Masatoshi Ando, and Tsutomu Miyashi*

Department of Chemistry, Faculty of Science, Tohoku University, Aoba-ku, Sendai 980, Japan

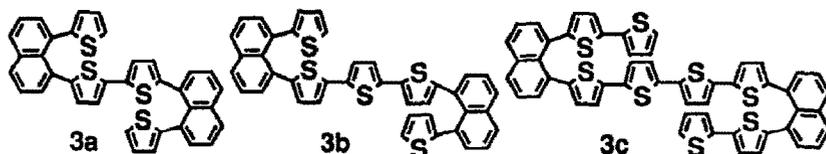
Intramolecular [2 + 2] cycloaddition of dienes **1a-c** to **2** can be induced by electron-transfer photosensitization with 9,10-dicyanoanthracene.



Synthesis and Properties of α -Oligothiophenes Carrying Three Cofacially Oriented Thiophene Rings Through Naphthalenes

M. Kuroda, J. Nakayama,* M. Hoshino, N. Furusho,[†] and S. Ohba^{††} Department of Chemistry, Faculty of Science, Saitama University, Urawa, Saitama 338, Japan. [†]Fuji Electric Corporate Research and Development, Ltd., Yokosuka, Kanagawa 240-01, Japan.

^{††}Department of Chemistry, Faculty of Science and Technology, Keio University, Kohoku-ku, Yokohama, Kanagawa 223, Japan



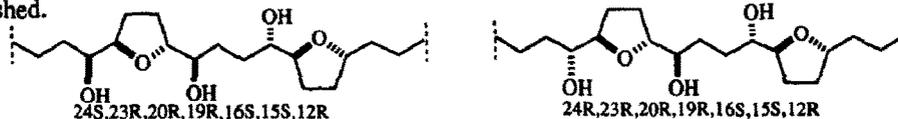
Synthesis and properties of compounds 3a-c are reported.

Absolute Stereochemistry of Non-adjacent Bis-tetrahydrofuranic Acetogenins

Hiroyasu Shimada, Seiichi Nishioka, Sanjewon Singh,[§] Mahendra Sahai,[§] and Yoshinori Fujimoto* Department of Chemistry, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan,

[§]Department of Medicinal Chemistry, I. M. S., Banaras Hindu University, Varanasi 221005, India

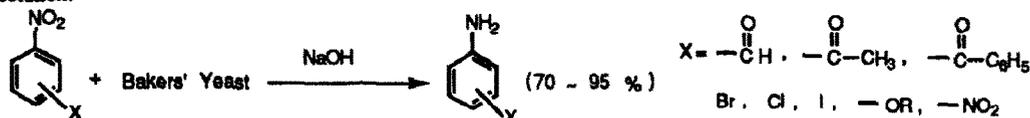
Absolute stereochemistry of the two types of non-adjacent bis-tetrahydrofuranic acetogenins has been established.



SELECTIVE REDUCTION OF AROMATIC NITRO COMPOUNDS TO AROMATIC AMINES BY BAKER'S YEAST IN BASIC SOLUTION.

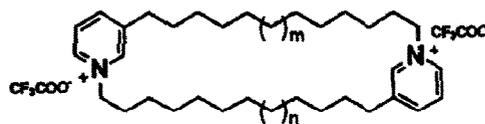
Woonphil Baik, Jeong Lim Han, Ki Chang Lee, Nam Ho Lee, Byeong Hyo Kim, and Jung-Tai Hahn Department of Chemistry, Myong Ji University, KOREA

Aromatic nitro compounds were selectively reduced to their corresponding amino derivatives in good yields using Bakers' Yeast in basic solution.



Cyclostellatamines A-F, Pyridine Alkaloids Which Inhibit Binding of Methyl Quinuclidinyl Benzilate (QNB) to Muscarinic Acetylcholine Receptors, from the Marine Sponge, *Stelletia maxima*

Nobuhiro Fusetani,* Naoki Asai, and Shigeki Matsunaga Laboratory of Marine Biochemistry, Faculty of Agriculture, The University of Tokyo, Bunkyo-ku, Tokyo, 113, Japan Kazuo Honda and Kenichi Yasumuro Central Laboratories, Yamanouchi Pharmaceutical Co. Ltd. Itabashi-ku, Tokyo, 175, Japan



- A m=1, n=1 D m=1, n=3
B m=1, n=2 E m=2, n=3
C m=2, n=2 F m=3, n=3

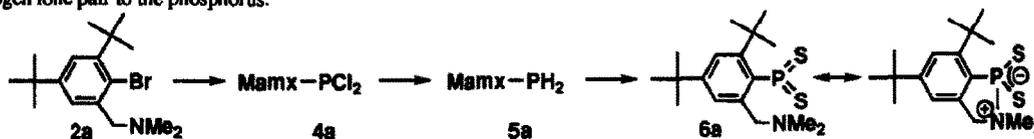
Preparation and X-Ray Structure of [2,4-Di-*t*-butyl-6-(*N,N*-dimethylamino-methyl)phenyl]dithioxophosphorane Stabilized by Intramolecular Coordination

Tetrahedron Letters, 1994, 35, 3971

Masaaki Yoshifuji,* Kazunori Kamijo, and Koza Toyota

Department of Chemistry, Faculty of Science, Tohoku University, Aoba, Sendai 980, Japan

A bulky Mamx group (2a = MamxBr) was utilized to stabilize dithioxophosphorane (6a) indicating an intramolecular coordination of nitrogen lone pair to the phosphorus.



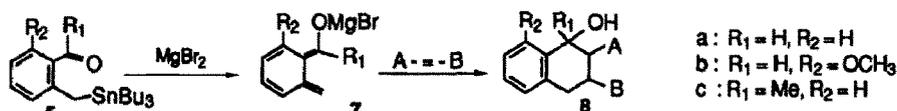
Lewis Acid - Promoted Generation of α - oxy *o* - Quinodimethanes and Cycloaddition Reactions

Tetrahedron Letters, 1994, 35, 3975

Soon Hyung Woo

Chemistry Group, Research Institute of Industrial Science and Technology, P.O. Box 135, Pohang 790-630, Korea

Anhydrous magnesium bromide can effectively promote to conversion of 5 to α - oxy *o* -quinodimethanes 7, which can then undergo Diels-Alder cycloaddition reactions.

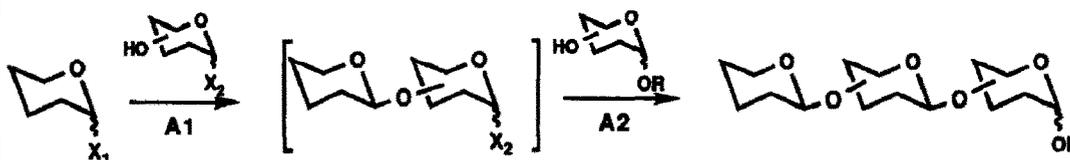


**One-Pot Sequential Glycosylation:
A New Method for the Synthesis of Oligosaccharides**

Tetrahedron Letters, 1994, 35, 3979

Haruo Yamada, Takeo Harada, Hiroshi Miyazaki, and Takashi Takahashi*

Tokyo Institute of Technology, Meguro, Tokyo 152, Japan.



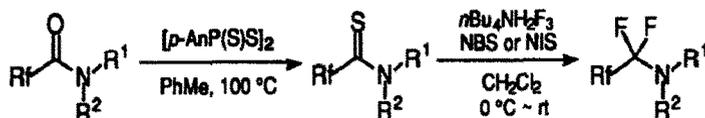
A Convenient Synthesis of Perfluoroalkylated Amines by Oxidative Desulfurization-Fluorination

Tetrahedron Letters, 1994, 35, 3983

Manabu Kuroboshi* and Tamejiro Hiyama*

Research Laboratory of Resources Utilization, Tokyo Institute of Technology

4259 Nagatsuta, Midori-ku, Yokohama, Kanagawa 227, JAPAN

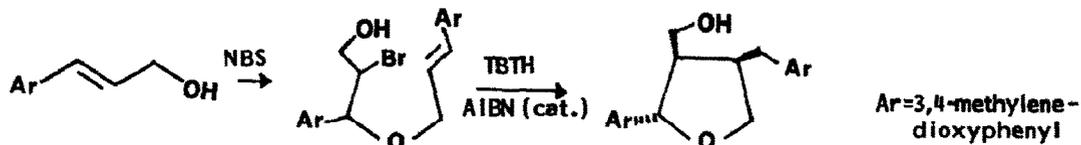


Perfluoroalkylamines were readily obtained from perfluoroalkaneithioamides by the aid of *n*Bu₄NH₂F₃ and NBS or NIS in good yields under mild conditions.

SHORT AND STEREOSELECTIVE SYNTHESIS OF (±)-DIHYDROSESAMIN BY A RADICAL CYCLISATION REACTION

Tetrahedron Letters, 1994, 35, 3985

Gourhari Maiti, Sankar Adhikari and Subhas Chandra Roy*
Department of Organic Chemistry, Indian Association for the
Cultivation of Science, Jadavpur, Calcutta - 700 032, India.

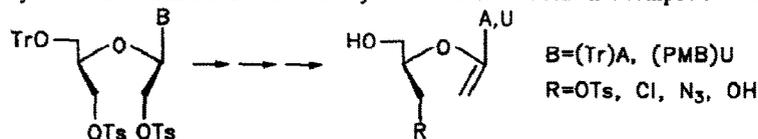


A NOVEL TYPE OF UNSATURATED SECONUCLEOSIDE ANALOGUES.

Tetrahedron Letters, 1994, 35, 3987

Valerije Vrček and Vesna Čaplar*, Laboratory of Stereochemistry and
Natural Compounds, Department of Organic Chemistry and Biochemistry, "Ruder Bošković" Institute, 41001 Zagreb, Croatia

1',2'-Unsaturated secoadenosine and secouridine analogues were synthesized by base promoted regioselective elimination of corresponding 2',3'-ditosylates. Efficient and selective O-detritlylation of these acid sensitive compounds was achieved by ZnBr₂ in dichloromethane.



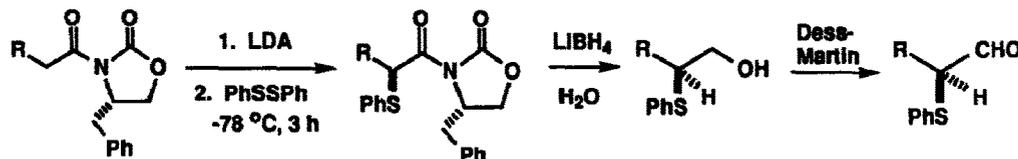
The Synthesis of Optically Active 2-Phenylthio Aldehydes

Tetrahedron Letters, 1994, 35, 3991

Kelly Chibale and Stuart Warren*

University Chemical Laboratories, Lensfield Road, Cambridge CB2 1EW.

Optically active 2-PhS-aldehydes can be made in >98% e.e. with R = Et, Pr, i-Pr, t-Bu, providing enolisation is avoided.



Comparative Studies on the Generation and Cyclisation Reactions of Difluoroalkyl Radicals

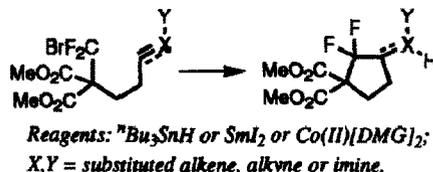
Tetrahedron Letters, 1994, 35, 3995

Lisa A. Buttle* and William B. Motherwell*^b

Departments of Chemistry, (a) Imperial College of Science, Technology and Medicine, London, SW7 2AY, UK;

(b) University College London, 20 Gordon Street, London, WC1H 0AJ, UK.

Difluoroalkyl radicals exhibit nucleophilic character in cyclisation reactions



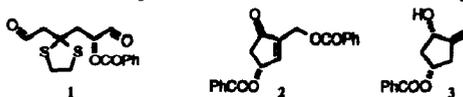
A FLEXIBLE SYNTHESIS OF SOME POLYSUBSTITUTED CYCLOPENTANES FROM QUINIC ACID.

Tetrahedron Letters, 1994, 35, 3999

M. Teresa Barros^{a,b}, António G. Santos^{a,b}, Lício S. Godinho^a, Christopher D. Maycock^{a,b,c}

^aFaculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, 2825 Monte da Caparica, ^bCentro de Tecnologia Química e Biológica, Rua de Quinta Grande 6, Apartado 127, 2780 Oeiras, ^cCentro de Espectrometria de Massa and Universidade de Lisboa, Rua Ernesto de Vasconcelos, 1700 Lisboa, PORTUGAL.

Aldol cyclisation of the dialdehyde 1 followed by several efficient steps yields the cyclopentenone 2 which is selectively reduced with borohydride to afford the key intermediate 3. This compound has been converted into a variety of cyclopentanol derivatives.

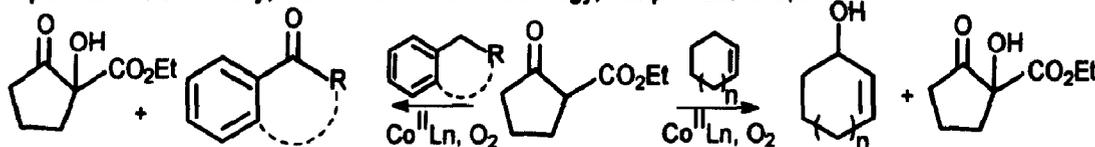


COBALT CATALYSED ALLYLIC AND BENZYLIC OXIDATIONS WITH DIOXYGEN IN THE PRESENCE OF ETHYL 2-OXOCYCLOPENTANECARBOXYLATE

Tetrahedron Letters, 1994, 35, 4003

T. Punniyamurthy and Javed Iqbal*

Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, INDIA

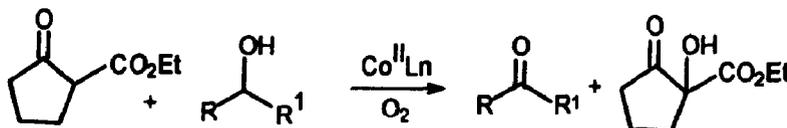


COBALT(II) SCHIFF BASE COMPLEX CATALYSED OXIDATION OF ALCOHOLS WITH DIOXYGEN IN THE PRESENCE OF ETHYL 2-OXOCYCLOPENTANECARBOXYLATE

Tetrahedron Letters, 1994, 35, 4007

T. Punniyamurthy and Javed Iqbal*

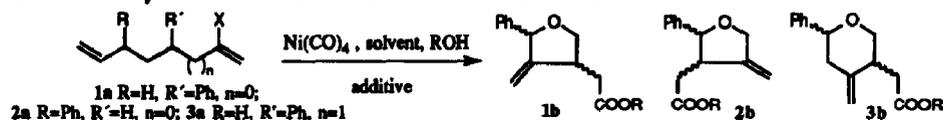
Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, INDIA



Stereoselective Synthesis of Tetrahydrofurans and Tetrahydropyrans by Ni(0) Promoted Tandem Cyclization-Carbonylation. Antonio Delgado,* † Amadeu Llebaria, Francisco Camps, and Josep M. Moretó. Departament de Química Orgànica Biològica, C.I.D. (C.S.I.C.). † Universitat de Barcelona, Laboratori de Química Farmacèutica, Barcelona, Spain.

Tetrahedron Letters, 1994, 35, 4011

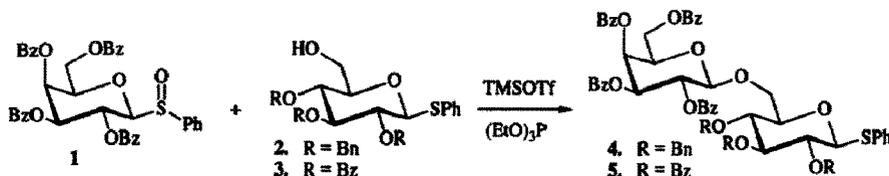
Reaction of vinyl bromides (1a-3a), with Ni(CO)₄ affords cyclic ethers 1b-3b in moderate to good yields. Stereoselectivity in terms of substrate and additives is discussed.



**TRIMETHYLSILYL TRIFLATE MEDIATED CHEMOSELECTIVE
CONDENSATION OF ARYLSULFENYL GLYCOSIDES**

Tetrahedron Letters, 1994, 35, 4015

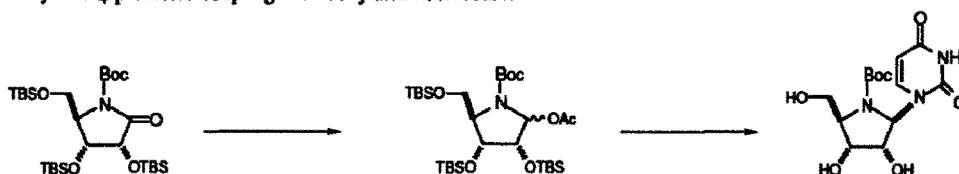
L.A.J.M. Smedregt, G.A. van der Marel and J.H. van Boom *Gorlaeus Lab., P.O. Box 9502, 2300 RA Leiden, The Netherlands.*
Glycosylation of "armed" or "disarmed" phenyl thioglycosides 2 or 3 with the phenylsulfenyl donor 1 using the promoter system trimethylsilyl triflate and triethylphosphite gave the β -linked disaccharides 4-5 in a good yield.



**TOTAL SYNTHESIS OF N-Boc-PROTECTED 3'-DEOXY-4'-AZA-
THYMIDINE AND 4'-AZAURIDINE, Gloria Rassu,* Luigi Pinna,**

Tetrahedron Letters, 1994, 35, 4019

Pietro Spanu, Fausta Ulgheri, and Giovanni Casiraghi*
Dipartimento di Chimica dell'Università and Istituto CNR, Via Vienna, 2, I-07100 Sassari, Italy.
A simple strategy for synthesis of azasugar-based nucleosides is described, consisting of formation of suitable azasugar substrates followed by SnCl₄-promoted coupling with a silylated nucleobase.

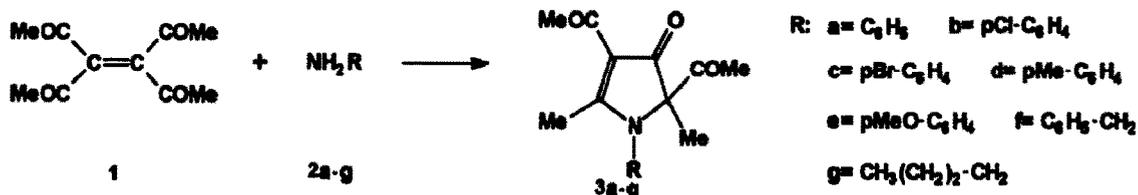


A NEW ROUTE TO HIGHLY SUBSTITUTED 1H-PYRROL-3(2H)-ONES.

Tetrahedron Letters, 1994, 35, 4023

Giorgio Adembri*, Angela M. Celli, Lucia R. Lampariello, Mirella Scotton, Alessandro Segà. Istituto di Chimica Organica, Piano dei Mantellini 44, 53100 Siena, Italy.

Reaction of 3,4-diacetyl-3-hexen-2,5-dione, 1, with alkyl or aryl primary amines, 2a-g, led to highly substituted 1H-Pyrrol-3(2H)-ones.

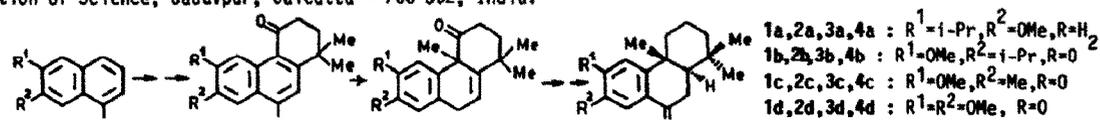


FACILE TRANSFORMATION OF 1-METHOXYNAPHTHALENES TO OCTAHYDROPHENANTHRENES. APPLICATION TO THE TOTAL SYNTHESIS OF (±)-SEMPERVIROL

Tetrahedron Letters, 1994, 35, 4027

METHYL ETHER, (±)-SUGIOL METHYL ETHER, (±)-NIMBIOL METHYL ETHER, AND (±)-NIMBIOL DIMETHYL ETHER

Sarbani Das, Asok Kumar Saha and Debabrata Mukherjee
Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta - 700 032, India.



The transformation of the 1-methoxynaphthalenes 1a-d into the diterpene ethers 4a-d.

Synthesis of 7,5-Fused Bicyclic Lactams by Stereoselective Radical Cyclization

Lino Colombo,* Marcello Di Giacomo, Gianluca Papeo, Oliviero Carugo^a

Dipartimento di Chimica Farmaceutica and a. Dipartimento di Chimica Generale, Università di Pavia, via Taramelli 12, I-27100 Pavia

Carlo Scolastico, Leonardo Manzoni, Dipartimento di Chimica Organica e Industriale, Università di Milano, via Venezian 21, I-20133 Milano

Stereoselective synthesis of **1a-d** is described.

