

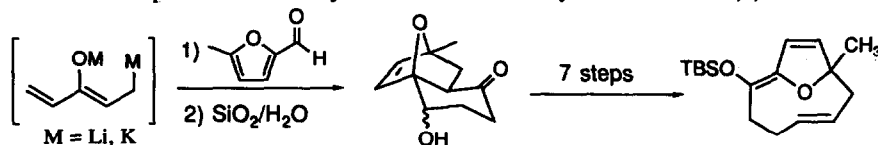
Tetrahedron Lett. 1992, 33, 7631

NEW TECHNOLOGY FOR THE CONSTRUCTION OF BICYCLO [8.2.1] RING SYSTEMS

Wei-Bo Wang and Eric J. Roskamp*

Department of Chemistry, Northwestern University, Evanston, Illinois 60208-3113

Three new methods are presented in this synthesis of an 11-oxabicyclo[6.2.1]-undec-1,5,9-triene.



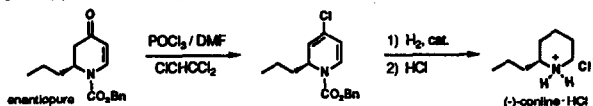
Tetrahedron Lett. 1992, 33, 7635

CONVERSION OF *N*-ACYL-2,3-DIHYDRO-4-PYRIDONES TO 4-CHLORO-1,2-DIHYDROPYRIDINES USING THE VILSMEIER REAGENT.

Rima S. Al-awar, Sajjan P. Joseph and Daniel L. Comins*

Department of Chemistry, North Carolina State University, Raleigh, NC 27695-8204.

1-Acyl-4-chloro-1,2-dihydropyridines are prepared from 2,3-dihydropyridones in one step using the Vilsmeier reagent.

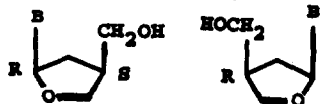


Tetrahedron Lett. 1992, 33, 7639

NOVEL ISOMERIC DIDEOXYNUCLEOSIDES OF THE D- AND L-APIOSE FAMILY

Todd B. Sells and Vasu Nair*

Department of Chemistry, University of Iowa, Iowa City, Iowa 52242, U. S. A.



Synthesis of a complete family of *cis* and *trans* dideoxynucleosides related to the D- and L-ribose carbohydrates using an enzymatically prepared chiral precursor.

Tetrahedron Lett. 1992, 33, 7643

REACTION OF DICYANOMETHYLIDES WITH 3-(3',3'-DIMETHYL-TRIAZENE-1-YL)PYRIDINE-4-CARBOXYLIC ACID. UNEXPECTED

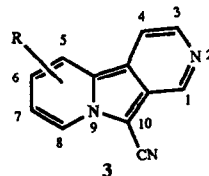
PREFERENTIAL FORMATION OF PYRIDO[4,3-a]INDOLIZINES. Kiyoshi Matsumoto,^a Takane Uchida,^b Mituo Toda,^a Kinuyo Aoyama,^b Akikazu Kakehi,^c Atsushi Shigihara,^d and J. William Lown,^e

^aGraduate School of Human and Environmental Studies, Kyoto University, Kyoto 606-01, Japan.

^bFaculty of Education, Fukui University, Fukui 910, Japan. ^cDepartment of Industrial Chemistry, Faculty

of Engineering, Shinshu University, Nagano 380, Japan. ^dHoshi College of Pharmacy, Tokyo 142, Japan.

^eDepartment of Chemistry, University of Alberta, Edmonton, Alberta, Canada, T6G 2G2

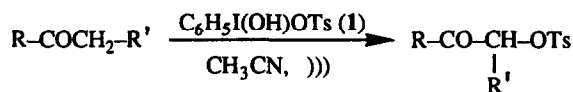


Reaction of dicyanomethylides with 3-(3',3'-dimethyltriazene-1-yl)-pyridine-4-carboxylic acid affords exclusively the pyrido[4,3-a] indolizines.

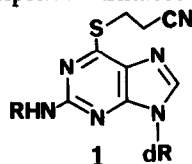
Ultrasound Promoted Hypervalent Iodine Reactions: α -Tosyloxylation of Ketones with [Hydroxy(Tosyloxy)Iodo]Benzene

Atila Tuncay*, John A. Dustman, George Fisher, Crystal I. Tuncay, Chemistry Department, Indiana University Northwest, Gary, IN 46408, U.S.A., and Kenneth S. Suslick, School of Chemical Sciences, University of Illinois at Urbana-Champaign, 505 S. Mathews Av., Urbana, IL 61801 U.S.A.

Using ultrasound, ketones are directly tosyloxylation with [hydroxy(tosyloxy)iodo]benzene quickly in very good yields.

**A Novel Synthesis of S⁶-Cyanoethyl-2'-deoxy-6-thioguanosine and its Incorporation into Triple Helix Forming Oligonucleotides**

T. Sudhakar Rao, Krishna Jayaraman, Ross H. Durland, and Ganapathi R. Revankar*
Triplex Pharmaceutical Corporation, 9391 Grogans Mill Road, The Woodlands, TX 77380, U.S.A.



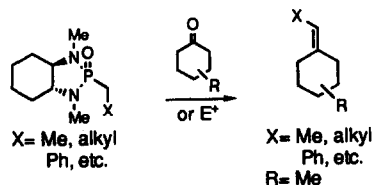
R = isobutyryl
= trifluoro-
acetyl

A simple and convenient synthesis of **1** has been achieved and incorporated into oligonucleotides using the solid-phase phosphoramidite chemistry.

STUDIES IN ASYMMETRIC OLEFINATIONS -- THE SYNTHESIS OF ENANTIOMERICALLY PURE ALLYLIDENE, ALKYLIDENE, AND BENZYLIDENE CYCLOHEXANES

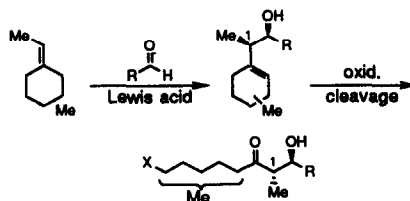
Stephen Hanessian* and Serge Beaudoin;
Department of Chemistry, Université de Montréal, P.O. Box 6128, Station A, Montréal, P.Q. CANADA, H3C 3J7

Treatment of alkyl cyclohexanones with topologically unique bicyclic phosphonamides derived from the C₂ symmetrical N,N'-dimethyl 1,2-trans-cyclohexane diamine leads to enantiomerically pure alkylidene cyclohexanes.

**VERSATILE SYNTHESIS OF ALICYCLIC AND ACYCLIC COMPOUNDS WITH ALTERNATE AND REMOTE C-METHYL SUBSTITUTION PATTERNS VIA ASYMMETRIC SEQUENTIAL OLEFINATION AND ENE REACTIONS**

Stephen Hanessian* and Serge Beaudoin;
Dept. of Chemistry, Université de Montréal, P.O. Box 6128, Station A, Montréal, P.Q. CANADA, H3C 3J7

Ene reaction of alkyl cyclohexane ethylidene derivatives with α -benzyloxy aldehydes leads to enantiomerically pure or enriched branched alkylcyclohexanes. These can be oxidized to acyclic motifs with a predetermined C-methyl substitution pattern (1,3-; 1,4-; 1,5-; 1,6-).

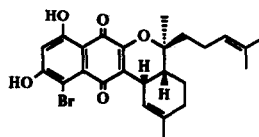


MARINONE AND DEBROMOMARINONE: ANTIBIOTIC SESQUITERPENOID NAPHTHOQUINONES OF A NEW STRUCTURE CLASS FROM A MARINE BACTERIUM.

Charles Pathirana, Paul R. Jensen, and William Fenical*

Scripps Institution of Oceanography, University of California, San Diego, La Jolla, CA 92093-0236

The structure of marinone and its debromo derivative have been determined by spectroscopic means. The compounds are members of a new structure class of antibiotic agents.

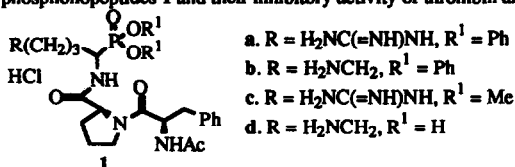


SYNTHESIS OF PHOSPHONOPEPTIDES AS THROMBIN INHIBITORS

Chia-Lin J. Wang*, Thelma L. Taylor, Alfred J. Mical, Susan Spitz, and Thomas M. Reilly

Du Pont Merck Pharmaceutical Co., Experimental Station, P. O. Box 80353, Wilmington, DE 19880-0353

Synthesis of phosphonopeptides **1** and their inhibitory activity of thrombin are described.

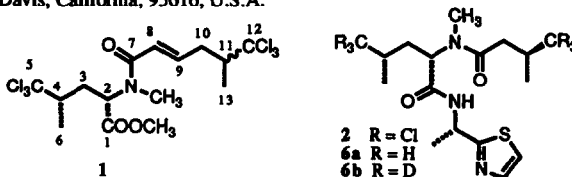


HERBACEAMIDE, A CHLORINATED *N*-ACYL AMINO ESTER FROM THE MARINE SPONGE, *DYSIDEA HERBACEA*

Gregory M. Lee and Tadeusz F. Molinski*

Department of Chemistry, University of California, Davis, California, 95616, U.S.A.

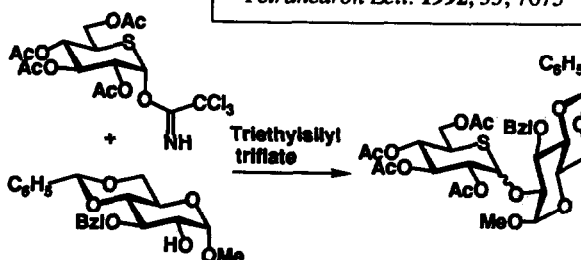
Abstract: Herbaceamide (**1**) was isolated from *Dysidea herbacea*. The structure and partial stereochemistry were assigned on the basis of spectroscopic comparison with dysidenin (**2**) and synthetic analogs.



UNPRECEDENTED CHEMICAL GLYCOSIDATION OF 5-THIOGLUCOSE TO GIVE DISACCHARIDES

Seema Mehta and B. Mario Pinto*
Department of Chemistry, Simon Fraser University,
Burnaby, B.C., V5A 1S6 CANADA

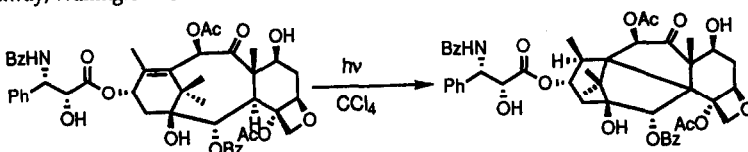
The glycosyl trichloroacetimidate of 2,3,4,6-tetra-O-acetyl-5-thioglucopyranose is used to glycosylate selectively protected glucopyranosyl acceptors with the 2-OH and 6-OH positions free.



THE PHOTOCHEMISTRY OF TAXOL : SYNTHESIS OF A NOVEL PENTACYCLIC TAXOL ISOMER

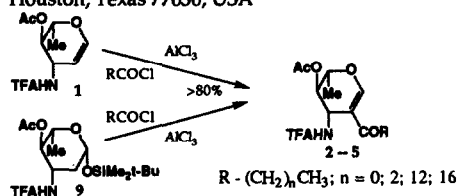
Shu-Hui Chen*, Charles M. Combs, Susan E. Hill, Vittorio Farina and Terrence W. Doyle, Bristol-Myers Squibb Pharmaceutical Research Institute, 5 Research Parkway, Wallingford CT 06492-7660 U.S.A.

Irradiation of taxol at 254 nm produced in high yield an interesting pentacyclic taxol isomer.



ONE STEP C-ACYLATION OF GLYCALS AND 2-DEOXY-HEXOPYRANOSIDES AT C-2

Waldemar Priebe*, Grzegorz Gryniewicz, and Nouri Neamati
The University of Texas M. D. Anderson Cancer Center
Houston, Texas 77030, USA

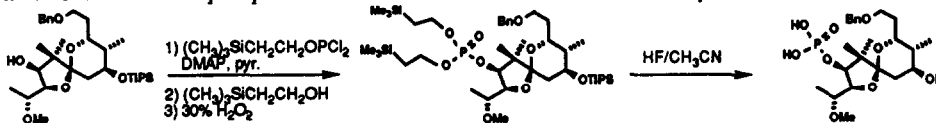


Friedel-Crafts acylation of glycols and 1-O-acetyl- and 1-O-silyl-2-deoxy-hexopyranosides with acetyl chloride or acetic anhydride in the presence of $AlCl_3$ or $FeCl_3$ gave 2-C-acetyl-hex-1-enitols in yields often better than 80%-90%.

Use of 2-Trimethylsilylethyl as a Protecting Group in Phosphate Monoester Synthesis

Akiyoshi Sawabe, Sandra A. Filla, and Satoru Masamune*
Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA 02139

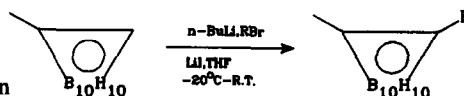
An effective method for phosphorylation of a hindered hydroxyl group followed by deprotection under mild conditions to the phosphate monoester has been demonstrated, as exemplified below.



LITHIUM IODIDE-CATALYZED ALKYLATION OF CARBORANES

George W. Kabalka*, N. Kesavulu Reddy, and Chatla Narayana
Department of Chemistry and Radiology, University of Tennessee,
Knoxville, Tennessee 37996-1600

The lithium iodide-catalyzed reaction of *o*-carboranyl-lithium with alkyl bromides yields alkylated *o*-carboranes in excellent yields under very mild conditions.

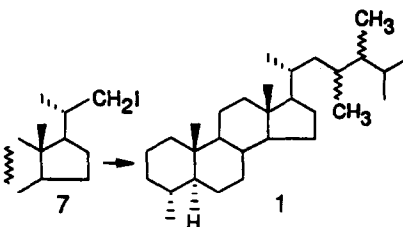


Tetrahedron Lett. 1992, 33, 7689

A SYNTHESIS OF C-23 AND C-24 DIASTEREOMERS OF 5 α -DINOSTERANE

Ivan Stoilov, Ewa Kolaczowska, Jan St. Pyrek, Carolyn P. Brock, David S. Watt,* Department of Chemistry, University of Kentucky, Lexington, KY 40506, R. M. K. Carlson, and J. Michael Moldowan, Chevron Oil Field Research Co., Richmond, CA 94802

Stereoselective routes for the preparation of C-23 and C-24 diastereomers of 5 α -dinosterane (1), involved the alkylation of (20S)-20-(iodomethyl)-4 α -methyl-5 α -pregnane (7) with appropriate saturated or unsaturated esters.

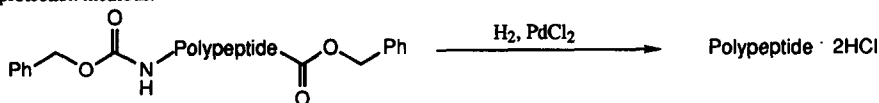


Tetrahedron Lett. 1992, 33, 7693

A NEW AND SIMPLIFIED METHOD FOR HYDROGENOLYTIC DEPROTECTION IN SOLUTION-PHASE PEPTIDE SYNTHESIS

Alexander J. Pallenberg, Procyte Corporation, 12040 115th Ave. NE #210, Kirkland, Washington 98034 USA

An improved method for the deprotection of synthetic peptides by catalytic hydrogenation is described, which allows for precise control of counterion stoichiometry and affords the peptides in high purity and yield, while avoiding the problems usually associated with conventional deprotection methods.

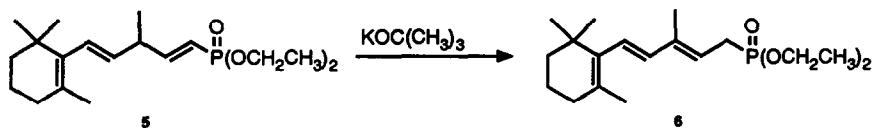


Tetrahedron Lett. 1992, 33, 7697

AN EXPEDIENT ROUTE TO A VERSATILE INTERMEDIATE FOR THE STEREOSELECTIVE SYNTHESIS OF ALL-TRANS-RETINOIC ACID AND BETA-CAROTENE

James H. Babler* and Scott A. Schlidt, Department of Chemistry, Loyola University of Chicago, Chicago, IL 60626 USA

Base-catalyzed isomerization of vinyl phosphonate 5 afforded the corresponding allylic phosphonate (6), a useful precursor to retinoids, as the sole product.

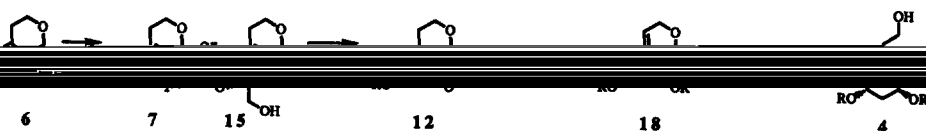


Tetrahedron Lett. 1992, 33, 7701

Asymmetric Synthesis of a Key 1 α ,25-Dihydroxy-Vitamin D₃ Ring A Synthon.

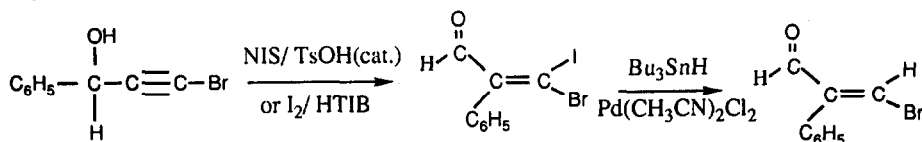
M. M. Kabat, M. Lange, P.M. Wovkulich and M. R. Uskoković

Roche Research Center, Hoffmann-La Roche Inc., Nutley, New Jersey 07110, USA



FORMATIONS OF MIXED β,β -DIHALOENALS FROM
HALOGENATED SECONDARY ALKYNOLS

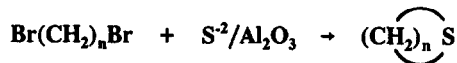
Pakorn Bovonsombat and Edward McNelis*
Department of Chemistry, New York University, New York, New York 10003



THE MACROCYCLIZATION REACTION OF TERMINAL
DIBROMOALKANES WITH SULFIDE ON ALUMINA.
THE USE OF A SOLID SUPPORT AS AN ALTERNATIVE
TO THE HIGH DILUTION TECHNIQUE.

Lay Choo Tan, Richard M. Pagni,* George W. Kabalka,* Marc Hillmyer and Julie Woosley, Department of
Chemistry, University of Tennessee, Knoxville, Tennessee 37996-1600 U.S.A.

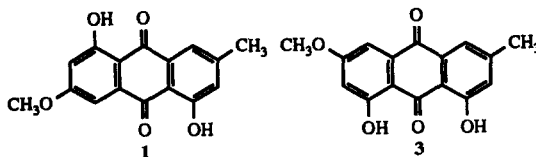
The reaction of terminal dibromoalkanes with sulfide on alumina affords the corresponding cyclic sulfides.



REVISION OF THE STRUCTURE OF PRZEWALSKINONE B

T. Ross Kelly,* Zhenkun Ma and Wei Xu
Department of Chemistry, Boston College, Chestnut Hill, Massachusetts 02167

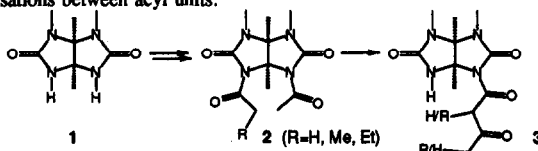
Biosynthetic considerations suggested that the recently
assigned structure (1) of przewalskinone B was incorrect.
Synthetic studies support the revision of the structure of
przewalskinone B to 3.



EFFICIENT CLAISEN-TYPE CONDENSATION BETWEEN ACYL UNITS BOUND TO A MOLECULAR TEMPLATE

Sengen Sun and Paul Harrison*, Department of Chemistry, McMaster University, 1280 Main Street West, Hamilton, Ontario, Canada
L8S 4M1

The Claisen-type condensation of diacylglycolurils 2 with base efficiently provides 2-(acylacyl)glycolurils 3. Thus, 1 acts as a
template to allow facile condensations between acyl units.

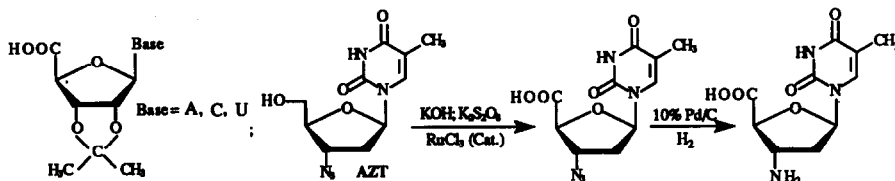


Tetrahedron Lett. 1992, 33, 7719

RUTHENIUM TETRAOXIDE CATALYZED OXIDATION OF NUCLEOSIDES: A FACILE SYNTHESIS OF 5'-CARBOXYLIC ACID DERIVATIVES

Rajender S. Varma* and Michael E. Hogan, The Center for Biotechnology, Baylor College of Medicine, 4000 Research Forest Drive, The Woodlands, TX 77381, U. S. A.

The oxidation of nucleosides to 5'-carboxylic acids is described using $K_2S_2O_8$ and $RuCl_3$.



Tetrahedron Lett. 1992, 33, 7721

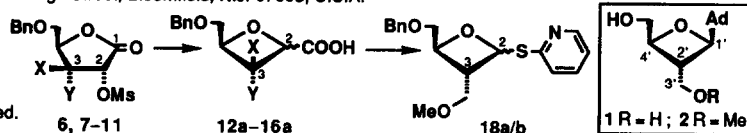
Ring Contraction Reactions of 2-O-Methanesulfonates

of α -Hydroxy- γ -Lactones in Aqueous Medium to Oxetane-2-Carboxylic Acids:

A Convenient Synthesis of 3'-O-Methyloxetanocin and A Formal Synthesis of Oxetanocin

Anil K. Saksena,* Ashit K. Ganguly, Viyyoor M. Girijavallabhan, Russell E. Pike, Yao-Tsung Chen, Mohindar S. Puar
Schering-Plough Research Institute, 60 Orange Street, Bloomfield, N.J. 07003, U.S.A.

Attempted ring contraction of a 2-O-trifluoromethanesulfonate 24 gave the orthoesters 26a/b. A ring expansion reaction (e.g. 14a \rightarrow 21a) was observed.



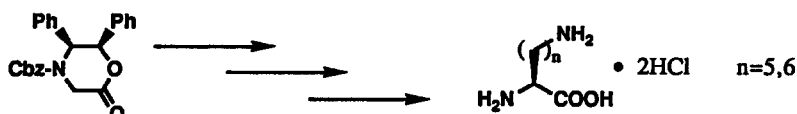
Tetrahedron Lett. 1992, 33, 7725

AN EFFICIENT ASYMMETRIC SYNTHESIS OF

L- α , ω -DIAMINOALKANOIC ACIDS. Zhengxin Dong

The Unit for Rational Drug Design, E-301, The University Hospital, Boston University Medical Center,
88 East Newton Street, Boston, MA 02118, U.S.A.

Efficient asymmetric syntheses of L-2,7-diaminoheptanoic acid and L-2,8-diaminooctanoic acid are described.



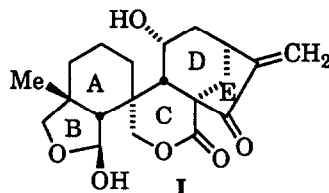
Tetrahedron Lett. 1992, 33, 7727

Annulations in Bridged Systems. An Approach to the Synthesis of Shikodonin

George A. Kraus* and Masayuki Kiriwara

Department of Chemistry, Iowa State University, Ames, IA 50011

A broadly-useful strategy for the introduction of a bridgehead substituent and a substituent on an adjacent carbon is described. The addition of TMSX to a bridgehead enone generates an enol silyl ether regioselectively. Reaction of the enol silyl ether with electrophiles results in a vicinal dialkylation.

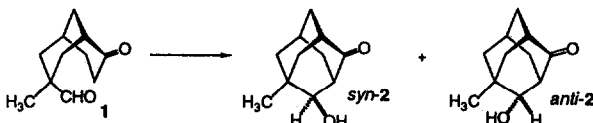


INVESTIGATIONS ON TRANSITION STATE GEOMETRY OF THE ALDOL CONDENSATION IN AQUEOUS MEDIUM

Tetrahedron Lett. 1992, 33, 7729

Scott E. Denmark* and WheeSeong Lee
Roger Adams Laboratory, Department of Chemistry, University of Illinois, Urbana, IL 61801, USA

In aqueous medium, base-induced aldol condensations of keto aldehyde **1** show high anti-selectivity independent of metal ion and water content of the solvent. The acid-induced aldol condensation affords syn-aldol products in variable selectivity depending upon acid strength and water content of the medium.

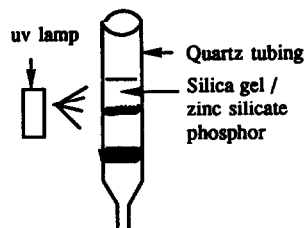


VISUALIZATION OF COLUMN CHROMATOGRAPHY

Tetrahedron Lett. 1992, 33, 7733

Jean-Claude Bradley* and Tony Durst
Ottawa-Carleton Chemistry Institute,
Department of Chemistry, University of Ottawa,
Ottawa, Canada K1N 6N5

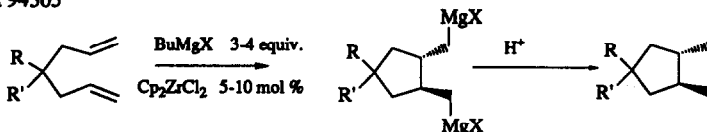
A method is described which allows visualization of column chromatography by use of a quartz column and addition of a fluorescent indicator to commercial adsorbents.



Stereoselective Cyclomagnesiation of 1,6-Heptadienes Catalyzed by Zirconocenes: Effects of Substituents, Solvent and Magnesium Reagents

Tetrahedron Lett. 1992, 33, 7735

Ulrike Wischmeyer, Kyle S. Knight, and Robert M. Waymouth* Department of Chemistry, Stanford University, Stanford, CA 94305



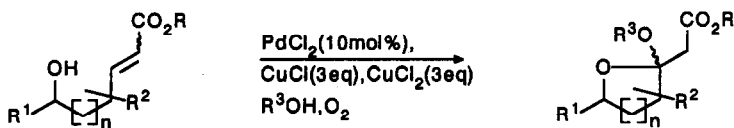
Zirconocene dichloride acts as a catalyst precursor for the stereoselective cyclomagnesiation of an array of 1,6-heptadienes with butylmagnesium chloride to form 1,2-(bis)methylmagnesium substituted cyclopentanes.

Rate Enhancement in the Wacker Oxidation of Hydroxy- α,β -unsaturated Esters: A Fast Neutral Method for the Preparation of Masked β -Ketoesters

Tetrahedron Lett. 1992, 33, 7739

Simon X Auclair, Michelle L. Morris, Michael A. Sturgess*
Dept. of Chemistry and Biochemistry, Univ. of Arkansas, Fayetteville AR 72701.

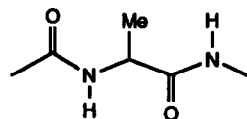
Wacker oxidation of hydroxy- α,β -unsaturated esters provides a high yielding neutral means of oxidizing such esters to protected β -ketoesters in one step.



AMBER* Torsional Parameters for the Peptide Backbone.

D.Quentin McDonald and W. Clark Still*, Department of Chemistry, Columbia University, New York, NY 10027

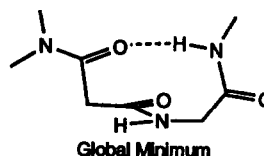
Improved torsional parameters for peptide main chains have been developed for use with the AMBER force field. The new field better reproduces findings of *ab initio* calculations on conformational energies of simple peptides such as the alanine dipeptide shown above.



An AMBER* Study of Gellman's Amides.

D.Quentin McDonald and W. Clark Still*, Department of Chemistry, Columbia University, New York, NY 10027

The conformational properties of peptide derivatives reported by Gellman *et al.* are modeled successfully by AMBER* calculations using the GB/SA continuum model for chloroform solvent.

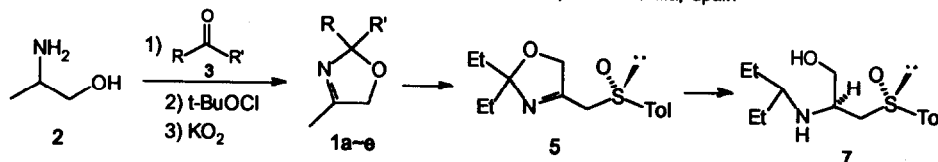


Synthesis of 2,2-Disubstituted 2,5-Dihydro-4-methyloxazoles

Duy H. Hua,^a Nouredine Khair,^b Fengqi Zhang,^a and Laurent Lambs^a

a) Department of Chemistry, Kansas State University, Manhattan, KS 66506 U. S. A.

b) Dpto de Quimica Organica y Farmaceutica, Universidad de Sevilla, 41012 Sevilla, Spain

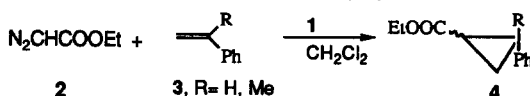


Iron Lewis Acid Catalyzed Reactions of Ethyldiazoacetate with Styrene and α -Methylstyrene: Formation of Cyclopropanes with *Cis* Selectivity

William J. Seitz, Anjan K. Saha, Dan Casper and M. Mahmum Hossain*

Department of Chemistry, University of Wisconsin-Milwaukee, Wisconsin 53201

The iron Lewis acid, $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}^+(\text{CO})_2(\text{THF})\text{BF}_4^-$, **1** catalyzes the reaction of ethyldiazoacetate **2** with styrene and α -methylstyrene to provide cyclopropanes **4** with a preference for the *cis* isomer.

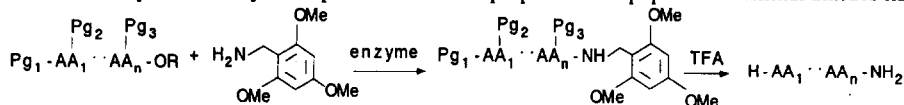
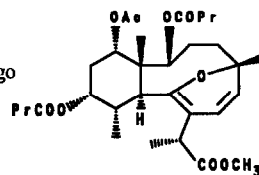


Novel Chemoenzymatic Synthesis of Peptide

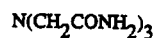
C-Terminal Amides from Ester Precursors. Jeremy Green and

Alexey L. Margolin*, Marion Merrell Dow Research Institute, 2110 E. Galbraith Rd., Cincinnati, OH 45215 USA

A novel two step chemoenzymatic procedure for the preparation of peptide C-terminal amides has been developed.

Methyl Briarcolate, the First Briarcin Diterpene
Containing a C-19 Methyl EsterDarin Maharaj^a, Baldwin S. Mootoo^a, Alan J. Lough^b,
Stewart McLean^{b*}, William F. Reynolds^b, and Winston F. Tinto^{b,c}^aDepartment of Chemistry, University of the West Indies, St. Augustine, Trinidad & Tobago^bDepartment of Chemistry, University of Toronto, Toronto, Canada, M5S 1A1^cDepartment of Chemistry, University of the West Indies, Cave Hill Campus, BarbadosThe structure **1** was elucidated by 2D NMR and X-ray crystal-structure analysis,
which also established the relative stereochemistry.

Facile Synthesis of Substituted Nitrilotriacetamides.

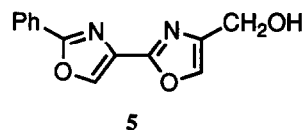
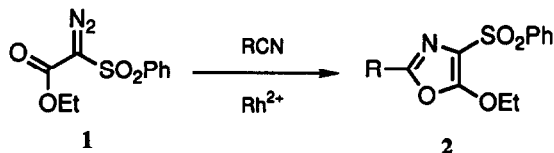
Douglas A. Smith*, Susan Cramer, Steven Sucheck and Ewa
Skrzypczak-Jankun
Department of Chemistry, University of Toledo, Toledo, OH
43606-3390.

2

DIAZO-SULFONES AND -NITRILES IN OXAZOLE SYNTHESIS;
THREE STEP PREPARATION OF A BIS-OXAZOLE

Kevin J. Doyle and Christopher J. Moody

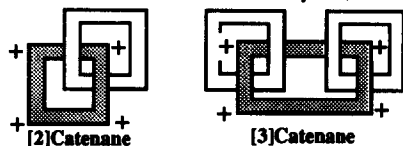
Department of Chemistry, Loughborough University of Technology, Loughborough, Leicestershire LE11 3TU, U. K.

Oxazole-4-sulfones and -nitriles are prepared by rhodium(II) catalysed addition of nitriles to diazo compounds; using methyl
cyanodiazooacetate, the bis-oxazole **5** is available in just three steps from benzonitrile.

Characterisation of Molecular and Supramolecular Systems by Electropray Mass Spectrometry

Peter R. Ashton,^a Christopher L. Brown,^b John R. Chapman,^c Richard T. Gallagher,^c and J. Fraser Stoddart^{*a}

^a School of Chemistry, University of Birmingham, Edgbaston, Birmingham B15 2TT, UK ^b Department of Chemistry, The University, Sheffield S3 7HF, UK ^c Kratos Analytical, Barton Dock Road, Urmston, Manchester M31 2LD, UK

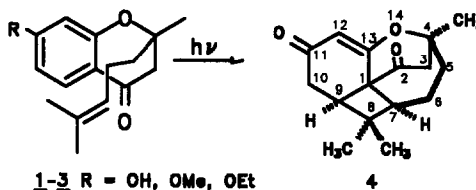


ESMS has been demonstrated to be a powerful technique for the characterisation of [2]catenanes and [3]catenanes based on interlocking rings composed of (i) macrocyclic polyethers containing either two π -electron rich 1,4-dioxybenzene or 1,5-dioxy-naphthalene groups linked by 3,6,9-trioxaundecyl chains and (ii) tetracationic cyclophanes containing two π -electron deficient bipyridinium units linked by either *p*-xylyl or bitolyl residues.

A NOVEL INTRAMOLECULAR 1,2-ARENE-ALKENE PHOTOCYCLOADDITION

G. P. Kalena, P. Pradhan and A. Banerji*

Bio-Organic Division,
Bhabha Atomic Research Centre,
Trombay, Bombay-400 085 INDIA

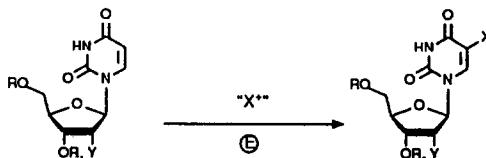


An intramolecular arene-alkene photocycloaddition of 1-3 resulted in the formation of 4

In-cell Indirect Electrochemical Halogenation of Pyrimidine Bases and their Nucleosides to 5-Halo derivatives

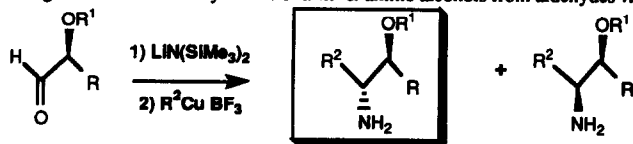
G. Palmisano,* B. Danieli, M. Santagostino, B. Vodopivec and G. Fiori

Reaction of anodically generated "halonium" species with pyrimidine bases and nucleosides leads to 5-halo compounds in good yields.



Reversal of Diastereoselectivity in the Addition of C-Nucleophiles to *N*-Trimethylsilyl Imines via Grignard Derived Organo Copper-Boron Trifluoride Reagents.

Gianfranco Cainelli*, Daria Giacomini, Mauro Panunzio, Paola Zarantonello
Dipartimento di Chimica "G. Ciamician" Università and C.S.F.M.-C.N.R. Via Selmi, 2 - 40126 Bologna Italy.
A high stereocontrolled synthesis of *anti* α -amino alcohols from aldehydes via silylimines is reported.



Tetrahedron Lett. **1992**, *33*, 7787

A FACILE CONVERSION OF ALIPHATIC ALDEHYDES

TO 1,1-DIFLUOROALKANES. A. García Martínez^{a*},

J. Osfo Barcina^a, A. Z. Rys^a, L. R. Subramanian^b. ^aDepartamento de Química Orgánica, Facultad de Ciencias Químicas, Universidad Complutense, E-28040, Madrid, Spain.

^b Institut für Organische Chemie der Universität, Auf der Morgenstelle 18, D-7400 Tübingen, Germany.

Aliphatic aldehydes can be easily converted to 1,1-difluoroalkanes by reaction of the corresponding *gem*-bistriflates with tetrabutylammonium difluorotriphenylstannate in methylene chloride at room temperature.



Tetrahedron Lett. **1992**, *33*, 7789

PALLADIUM CATALYSED CYCLISATION - CARBONYLATION PROCESSES.

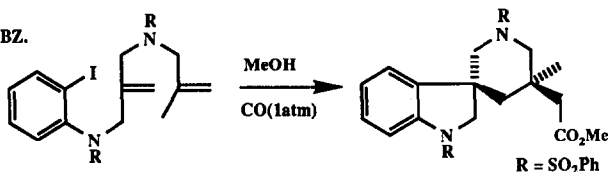
RATE ENHANCEMENT BY Tl(I) SALTS.

Ronald Grigg,^{a**} Peter Kennewell^b and Andrew J Teasdale^a.

^a School of Chemistry, Leeds University, Leeds, LS2 9JT.

^b Roussel Scientific Institute, Kingfisher Drive, Swindon, SN3 5BZ.

The addition of TlOAc (3 mol) promotes a series of cyclisation-carbonylation reactions under 1 atmosphere of CO at 65°C. One example of a bis-cyclisation-carbonylation is reported.



SYNTHESIS OF INOSITOL PHOSPHOLIPIDS WITH THIOPHOSPHOESTER BONDS

M. A. Alisi, M. Brufani, L. Filocamo^{a*}, G. Gostoli

Dipartimento di Scienze Biochimiche "A. Rossi Fanelli", Università di Roma "La Sapienza", Via degli Apuli 9, 00185 Roma (Italy)

S. Maiorana

Dipartimento di Chimica Organica e Industriale, Università di Milano, Via Venezian 21, 20133 Milano (Italy)

M. C. Cesta, E. Ferrari, S. Lappa, and P. Pagella

Mediolanum Farmaceutici S.p.a., Via S. G. Cottolengo 31, 20143 Milano (Italy)

A series of phosphothiolates analogues of phosphatidylinositol was synthesised with the aim of obtaining phospholipase C inhibitors.

