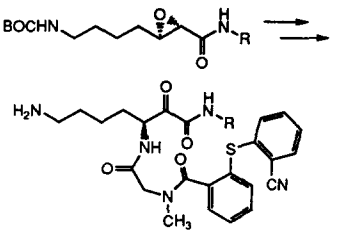
GRAPHICAL ABSTRACTS

Tetrahedron Letters, **1997**, *38*, 5741

THE SYNTHESIS OF LYSINE α-KETOAMIDE THROMBIN INHIBITORS VIA AN EPOXY AMIDE RING OPENING.

Joseph Cacciola*, Richard S. Alexander, John M. Fevig and Pieter F.W. Stouten, Department of Chemical and Physical Sciences, *The Dupont Merck Pharmaceutical Company, P.O. Box 80500, Wilmington DE 19880-0500.*

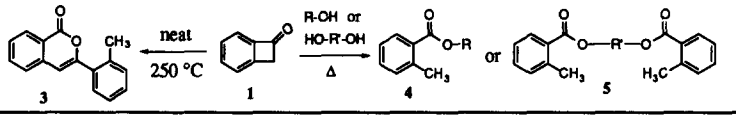
We describe a novel route for the preparation of substituted α-ketoamides of lysine. These compounds, due to the presence of an electrophilic carbonyl, display submicromolar activity toward the enzyme thrombin.



Tetrahedron Letters, **1997**, *38*, 5745

THERMAL REACTIONS OF BENZOCYCLOBUTENONE WITH ALCOHOLS. Zhi Yuan Wang*, Laurence Suzzarini and Jian Ping Gao, Ottawa-Carleton Chemistry Institute, Department of Chemistry, Carleton University, 1125 Colonel By Drive, Ottawa, Canada K1S 5B6

Thermolysis of **1** at 250 °C yielded the isocoumarin **3** in 60% yield. In the presence of stoichiometric amounts of alcohols at 170-210 °C, the corresponding esters **4** and **5** were formed in quantitative yields.

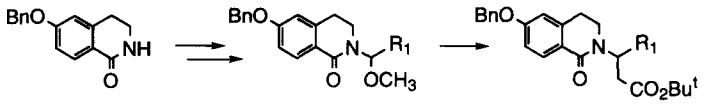


Tetrahedron Letters, **1997**, *38*, 5747

An Acyliminium Ion Approach Towards The Synthesis of β-Substituted 3,4-Dihydroisoquinolone Propionates

Matthew J. Fisher*, Bruce P. Gunn, Suzane L. Um, and Joseph A. Jakubowski
Lilly Research Laboratories, A Division of Eli Lilly and Company, Lilly Corporate Center, Indianapolis, Indiana, 46285

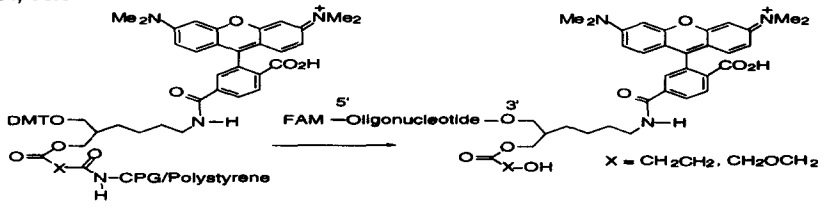
A method for the preparation of α-methoxy-3,4-dihydroisoquinolones and their subsequent reaction with 1-*tert*-butoxy-1-*tert*-butyldimethylsiloxy ethene in the presence of $BF_3{\cdot}Et_2O$ to yield β-substituted isoquinolone propionates are described.



Tetrahedron Letters, **1997**, *38*, 5751

Automated Synthesis of Double Dye-Labeled Oligonucleotides using Tetramethylrhodamine (TAMRA) Solid Supports.

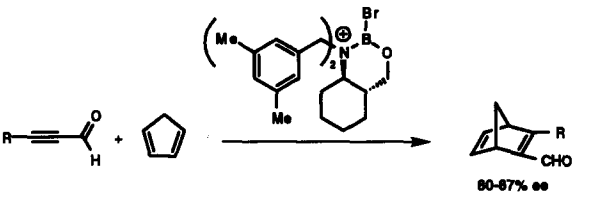
Bashar Mullah* and Alex Andrus, Applied Biosystems Division, Perkin Elmer Corporation, 850 Lincoln Centre Drive, Foster City, CA 94404, USA



Tetrahedron Letters, **1997**, *38*, 5755

Enantioselective Diels-Alder Reactions Between Cyclopentadiene and α,β-Acetylenic Aldehydes Catalyzed by a Chiral Super Lewis Acid

E. J. Corey* and Thomas W. Lee
Department of Chemistry and Chemical Biology
Harvard University, Cambridge, Massachusetts 02138

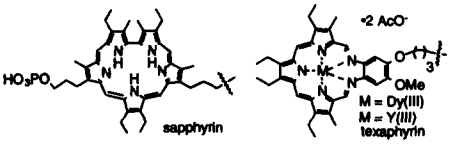


Tetrahedron Letters, **1997**, *38*, 5759

ENERGY TRANSFER ASSEMBLIES COMPOSED OF EXPANDED PORPHYRIN-OLIGONUCLEOTIDE CONJUGATES.

Darren Magda,*,[a] Shaun Crofts,[a] Jonathan L. Sessler,*,[b] Petra Sansom,[b] Stacy L. Springs,[b] and Yuichi Ohya,[b] [a]Pharmacyclics, Incorporated, 995 East Arques, Sunnyvale, California 94086, [b]Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, Texas 78712

Energy transfer assemblies composed of expanded porphyrin-oligonucleotide conjugates **1-3** are described.

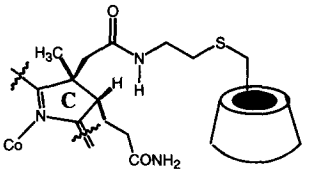


1 3'-sapphyrin-PO_4-AAA AAG TCG TCA TCA G-5'
2 5'-Y(III) texaphyrin-PO_4-TTT TTC AGC AGT AGT C-3'
3 5'-Dy(III) texaphyrin-PO_4-TTT TTC AGC AGT AGT C-3'

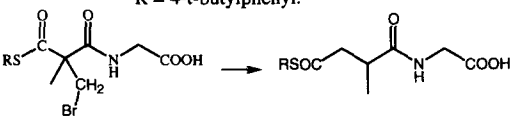
Tetrahedron Letters, **1997**, *38*, 5763

A MUTASE MIMIC WITH COBALAMIN LINKED TO CYCLODEXTRIN.

Miroslav Rezac and Ronald Breslow*, Department of Chemistry, Columbia University, New York NY 10027 USA



Selective catalyzed reaction when R = 4-t-butylphenyl.



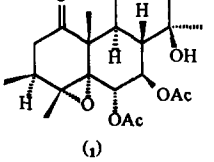
Tetrahedron Letters, **1997**, *38*, 5767

Caesalpinin, a Rearranged Cassane Furanoditerpene of *Caesalpinia bonducella*

Sonia R. Peter,[a] Winston F. Tinto,*,[a] Stewart McLean,[b] William F. Reynolds,*,[b] Li-Lin Tay[b]

[a]Laboratory of Bioorganic Chemistry, Department of Biological and Chemical Sciences, University of the West Indies, Cave Hill Campus, Barbados
[b]Department of Chemistry, University of Toronto, Toronto, Ontario, M5S 1A1, Canada

A new rearranged cassane furanoditerpene, caesalpinin (**1**), was isolated from the roots of *Caesalpinia bonducella* and the structure determined by 2D NMR spectroscopy.

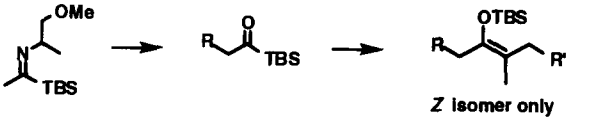


(1)

Tetrahedron Letters, **1997**, *38*, 5771

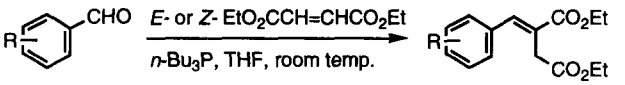
Stereospecific Synthesis of Tetrasubstituted Z-Enol Silyl Ethers By A Three Component Coupling Process

E. J. Corey,* Shouzhong Lin and Guanglin Luo
Department of Chemistry and Chemical Biology
Harvard University, Cambridge, Massachusetts 02138



Tetrahedron Letters, **1997**, *38*, 5775

One-Pot, Three-Component Synthesis of Arylidenesuccinates and Related Compounds. *Stuart W. McCombie* and Courtney. A. Luchaco*, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539



* Yields: 71 - 95%.

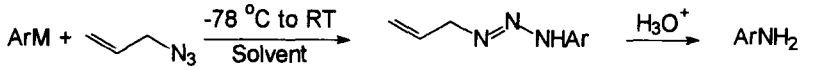
* Also for heterocyclic, aliphatic and unsaturated aldehydes.

Tetrahedron Letters, **1997**, *38*, 5777

Synthesis of Aromatic Amines Using Allyl Azide

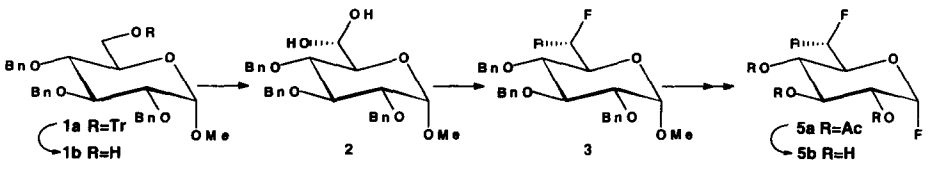
George W. Kabalka,* and Guisheng Li
Departments of Chemistry and Radiology
The University of Tennessee
Knoxville, TN 37996-1600

Aromatic amines are conveniently prepared in good yields by reaction of aromatic Grignard and lithium reagents with allyl azide, followed by hydrolysis.



Tetrahedron Letters, **1997**, *38*, 5779

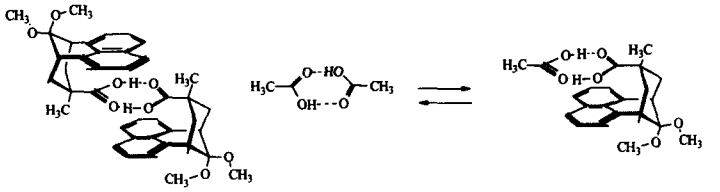
SYNTHESIS OF 6-DEOXY-6,6-DIFLUORO-α-D-GLUCOPYRANOSYL FLUORIDE Lincoln A. Noecker and John R. Edwards*,
Department of Chemistry, Villanova University, Villanova, PA 19085 USA



Tetrahedron Letters, **1997**, *38*, 5781

Aromatic Stacking in Folded Architectures through Hydrogen Bonding.
Yaun-Shek Chen, Jeff W. Kampf and Richard G. Lawton*
Department of Chemistry, The University of Michigan, Ann Arbor, Michigan 48109

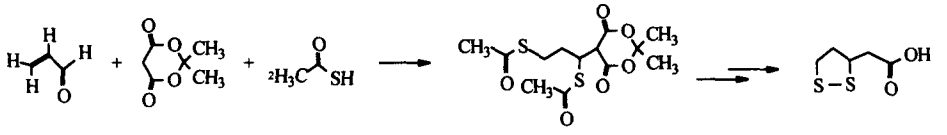
The α, α'-annelation of the enamine of 1,3-dihydro-2-phenalenone with methyl α-(bromomethyl)acrylate affords an aromatic bicyclic framework. The acid derivatives of this framework dimerize affording a "sandwich" structure. Both NMR and fluorescence techniques probe this dimeric association.



Tetrahedron Letters, **1997**, *38*, 5785

An Efficient Synthetic Route to 2-(1,2-Dithiolan-3-yl)acetic acid. Trisnorlipoic Acid and Amide Derivatives.
Yaun-Shek Chen and Richard G. Lawton*, Department of Chemistry, The University of Michigan
Ann Arbor, Michigan 48109-1055

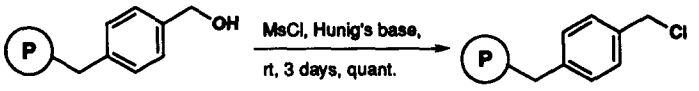
A simple, efficient synthesis of 2-(1,2-dithiolan-3-yl)acetic acid from Meldrum's acid, acrolein and thioacetic acid is described.



Tetrahedron Letters, **1997**, *38*, 5789

Facile Preparation of Chloromethylphenyl Solid Supports Using Methanesulfonyl Chloride and Hunig's Base. David A. Nugiel*, Dean A. Wacker and Gregory A. Nemeth
The DuPont Merck Pharmaceutical Company, P.O. Box 80500, Wilmington, DE 19880-0500

Abstract: Several commercially availbe hydroxymethylaryl resins were converted to their corresponding chloromethyl analogs by simple treatment with methanesulfonyl chloride and Hunig's base in DMF at 25 °C over 3 days. This mild method gave quantitative conversions as determined by elemental anlysis and ^{13}C NMR.

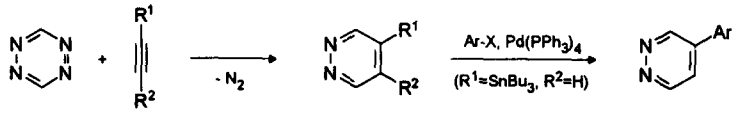


Tetrahedron Letters, **1997**, *38*, 5791

SYNTHESIS OF METALLATED (METAL = SI, GE, SN) PYRIDAZINES BY CYCLOADDITION OF METAL SUBSTITUTED ALKYNES TO 1,2,4,5-TETRAZINE

Dieter K. Heldmann and Jürgen Sauer*, Institute of Organic Chemistry, University of Regensburg, D-93040 Regensburg, Germany

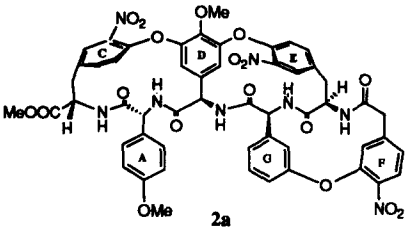
Preparative and kinetic aspects of the title reactions are reported. The stannylated pyridazines were cross-coupled with various aromatic carbon electrophiles under Pd-catalysis.



Tetrahedron Letters, **1997**, *38*, 5795

SYNTHESIS OF MODEL TRICYCLIC C-O-D-O-E-F-O-G RING OF TEICOPLANIN

Michèle Bois-Choussy, Caroline Vergne, Luc Neuville, René Beugelmans, Jieping Zhu*
Institut de Chimie des Substances Naturelles, 91198 Gif-sur-Yvette, France



2a

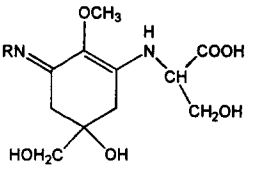
Synthesis of model tricyclic C-O-D-O-E-F-O-G rings (**2**) by means of efficient S_NAr based cycloetherification methodology is reported.

Tetrahedron Letters, **1997**, *38*, 5799

STRUCTURES OF TWO NEW MYCOSPORINES AMINO ACIDS FROM *POCILLOPORA EYDOUXI*

Taivini T.TEAI and Paul M.V. MARTIN, ITRM LM, BP 30 Papeete, Tahiti, Polynésie Française
Phila RAHARIVELOMANANA, Jean-Pierre BIANCHINI, Robert FAURE and Aimé CAMBON, UFP, CUPF, BP 6570 Faaa Aéroport, Tahiti, Polynésie Française

Two new Mycosporine Amino Acids molecules Palythine-serine (**1**) and N-Methylpalythine-serine (**2**) were isolated from *Pocillopora eydouxi* and characterized

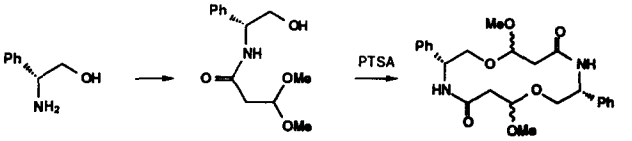


1 R=H, 2 R=CH_3

Tetrahedron Letters, **1997**, *38*, 5801

RAPID ACCESS TO A 14-MEMBERED DIKETAL DILACTAM RING

Denise Dugat,¶ Angèle Chiaroni, Claude Riche, Jacques Royer* and Henri-Philippe Husson, Institut de Chimie des Substances Naturelles, CNRS, 1 Ave de la Terrasse, 91198 Gif-sur-Yvette, France; ¶ On leave from URA CNRS 485, SEESIB, Université Blaise Pascal, Clermont-Ferrand, France



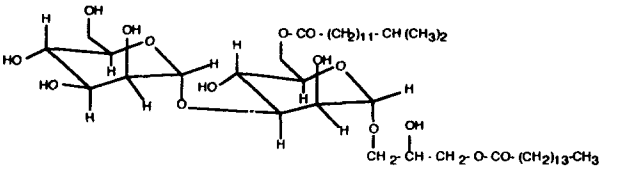
A macrocyclic dioxadilactam was obtained in two steps by acidic cyclization of a chiral amido-acetal issue from *R*(-)-phenylglycinol

Tetrahedron Letters, **1997**, *38*, 5805

LUTOSIDE : AN ACYL-1-(ACYL-6'-MANNOBIOSYL)-3-GLYCEROL ISOLATED FROM THE SPONGE-ASSOCIATED BACTERIUM *MICROCOCCUS LUTEUS*.

Valérie Bultel-Poncé[a], Cécile Debitus[b], Alain Blond[a], Claude Cerceau[a], Michèle Guyot[a]*,
[a] Laboratoire de Chimie du Museum National d'Histoire Naturelle-CNRS, 63 rue Buffon, 75005 Paris, France.
[b] ORSTOM Nouméa, Nouvelle-Calédonie.

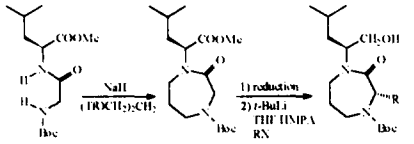
Lutoside, an unusual acyl-1-(acyl-6'-mannobiosyl)-3-glycerol **1** was isolated from the sponge-associated bacterial strain *Micrococcus luteus* .



Tetrahedron Letters, **1997**, *38*, 5809

Stereoselective Synthesis of 1,3-Disubstituted Hexahydro-1,4-diazepin-2-ones.

Adriana Pohlmann, Dominique Guillaume*, Jean-Charles Quirion,
Henri-Philippe Husson. Laboratoire de Chimie Thérapeutique associé au CNRS.
Faculté des Sciences Pharmaceutiques et Biologiques. Université R. Descartes.
4, Av. de l'Observatoire. 75270 Paris Cedex 06. France.

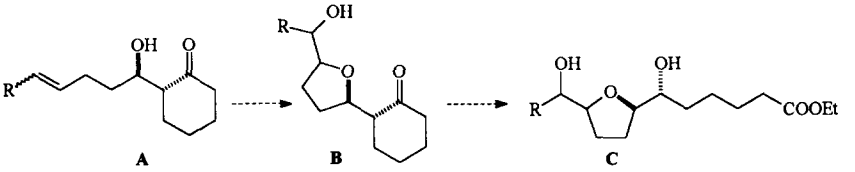


Tetrahedron Letters, **1997**, *38*, 5811

SYNTHESIS OF THE THF MOIETY OF ANNONACIN BASED ON ALDOLISATION AND BAEYER-VILLIGER OXIDATION.

J.-P. Gesson*, B. Renoux and E. Schulten
Laboratoire de Chimie 12, Université de Poitiers et CNRS, 40, Avenue du Recteur Pineau, F-86022 Poitiers Cedex

Erythro (or *threo*)-*trans* (or *cis*)-*threo* esters **C** are prepared in few steps from *Z* (or *E*) *anti* aldol **A** using diastereoselective Baeyer-Villiger reaction of ketone **B**.

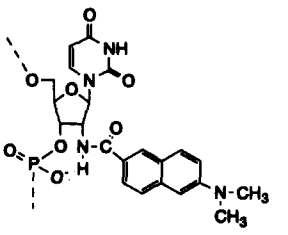


Tetrahedron Letters, **1997**, *38*, 5815

AN URIDINE DERIVATIVE CONTAINING A HYDROPHOBIC FLUORESCENT PROBE AT THE 2'-POSITION: SYNTHESIS AND ITS INCORPORATION INTO OLIGONUCLEOTIDES

Kazushige Yamana,* Tuneo Mitsui, Haruhisa Hayashi, and Hidehiko Nakano
Department of Applied Chemistry, Himeji Institute of Technology, 2167 Shosha, Himeji, Hyogo 671-22, Japan

The synthesis of 2'-(6-dimethylamino-2-naphthamide)uridine [U(DAN)] has been described. The nucleoside was converted to the 5'-dimethoxytrityl nucleoside phosphoramidite which could be used for incorporation of U(DAN) into the desired positions of the oligonucleotide sequence.

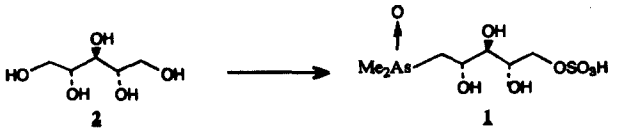


Tetrahedron Letters, **1997**, *38*, 5819

ISOLATION AND SYNTHESIS OF 1-DEOXY-1-DIMETHYLARSINOYLRIBITOL -5-SULFATE, A NATURAL CONSTITUENT OF *CHONDRIA CRASSICAULIS* AND OTHER RED ALGAE

John S. Edmonds*, Yasuyuki Shibata, Fuquan Yang† and Masatoshi Morita
National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki 305, Japan

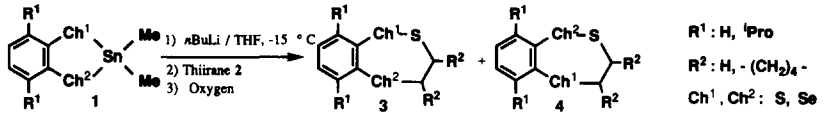
Abstract: 1-deoxy-1-dimethylarsinoylribitol-5-sulfate, 1, synthesised from ribitol, 2, was identical with a natural constituent of *Chondria crassicaulis* and other red algae, some of which are eaten in Japan.



Tetrahedron Letters, **1997**, *38*, 5821

SYNTHESES OF 1,2,5-BENZOTRICHALCOGENEPINS. REACTIONS OF 1,3,2-BENZODICHALCOGENASTANNOLES WITH THIIRANES

Ryu Sato,* Satoshi Sanada, Masako Okanuma, Takeshi Kimura, and Satoshi Ogawa
Department of Applied Chemistry and Molecular Science, Faculty of Engineering, Iwate University, Morioka 020, Japan

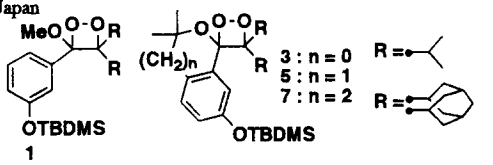


Tetrahedron Letters, **1997**, *38*, 5825

CHEMILUMINESCENCE OF SPIRO[1,2-DIOXETANE-3,1'-DIHYDROISOBENZOFURAN]S, SPIRO[1,2-DIOXETANE-3,1'-ISOCHROMAN]S AND A SPIRO[1,2-DIOXETANE-3,1'-(2-BENZOXEPANE)]

Masakatsu Matsumoto,* Nobuko Watanabe, Tamaki Shiono, Hiroyuki Suganuma, and Jyunya Matsubara, Department of Materials Science, Kanagawa University, Tsuchiya, Hiratsuka, Kanagawa 259-12, Japan

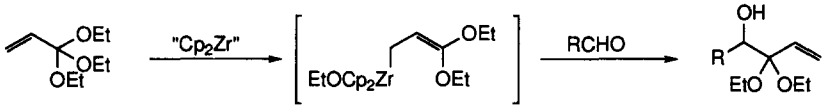
Spiro[1,2-dioxetane-3,1'-dihydroisobenzofuran]s (3), spiro[1,2-dioxetane-3,1'-isochroman]s (5) and a spiro[1,2-dioxetane-3,1'-(2-benzoxepane)] (7) were synthesized. Desilylation of these new dioxetanes with TBAF in DMSO induced light emission with half-lives far longer than those of the parent dioxetanes (1).



Tetrahedron Letters, **1997**, *38*, 5829

PREPARATION AND REACTIONS OF γ,γ-DIALKOXYALLYLIC ZIRCONIUM SPECIES: α,β-UNSATURATED ACYL ANION EQUIVALENT

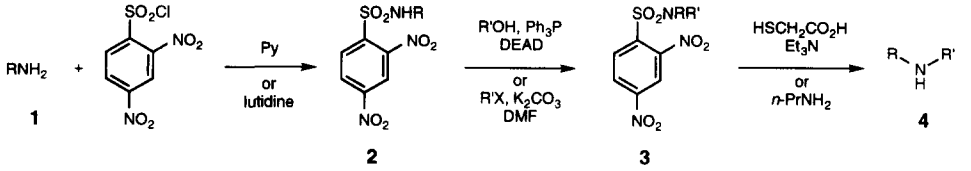
Hisanaka Ito and Takeo Taguchi*
Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-03, Japan



Tetrahedron Letters, **1997**, *38*, 5831

2,4-Dinitrobenzenesulfonamides: A Simple and Practical Method for the Preparation of a Variety of Secondary Amines and Diamines.

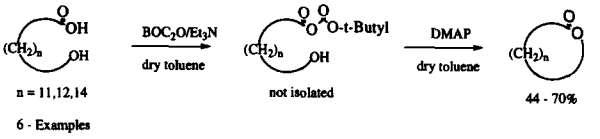
Tohru Fukuyama,*† Mui Cheung,‡ Chung-Kuang Jow,‡ Yuko Hidai,† and Toshiyuki Kan† †Faculty of Pharmaceutical Sciences, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan. ‡Department of Chemistry, Rice University, Houston, Texas 77005-1892.



Tetrahedron Letters, **1997**, *38*, 5835

DI-TERT-BUTYL PYROCARBONATE MEDIATED SYNTHESIS OF MACROCYCLIC LACTONES FROM ω-HYDROXY ACIDS

M. Nagarajan, V. Satish Kumar and B. Venkateswara Rao
Indian Institute of Chemical Technology, Hyderabad - 500 007, India

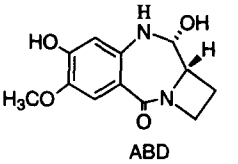


Tetrahedron Letters, **1997**, *38*, 5839

STEREOSPECIFIC SYNTHESIS OF A NOVEL AZETIDO-[2,1-*c*][1,4]BENZODIAZEPINE RING SYSTEM WITH DNA RECOGNITION POTENTIAL

D. Subhas Bose*, P. Srinivas and M. K. Gurjar

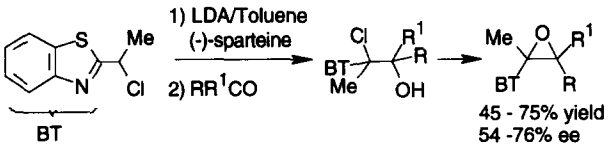
Organic Chemistry Division III, Indian Institute of Chemical Technology, Hyderabad - 500 007, India



Tetrahedron Letters, **1997**, *38*, 5843

ENANTIOSELECTIVE SYNTHESIS OF 2-BENZOTHIAZOLYL OXIRANES

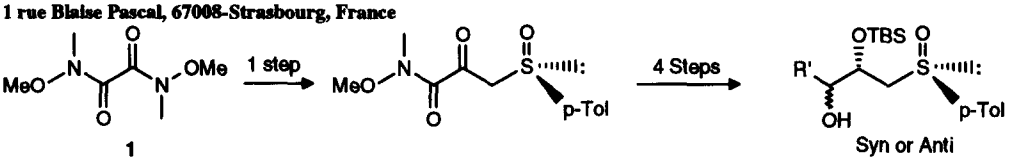
Saverio Florio,* Vito Capriati and Vincenzo Russo
Dipartimento Farmaco-Chimico, Università di Bari, Via Orabona 4, 70125 Bari, Italy.



Tetrahedron Letters, **1997**, *38*, 5847

STEREOSELECTIVE SULFOXIDE DIRECTED REDUCTION OF 1,2-DIKETO-DERIVATIVES TO ENANTIOMERICALLY PURE SYN AND ANTI 1,2-DIOLS.

Guy Solladié*, Gilles Hanquet, Catherine Rolland
Laboratoire de Stéréochimie associé au CNRS, ECPM, Université Louis Pasteur
1 rue Blaise Pascal, 67008-Strasbourg, France

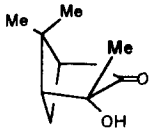


Tetrahedron Letters, **1997**, *38*, 5851

HYDROXYPINANONE : SOLUTE/SOLUTE INTERACTIONS AND NON-LINEAR CHIROPTICAL PROPERTIES

Solladié-Cavallo A., Andriamiadanarivo R. ; Laboratoire de Stéréochimie Organométallique associé au CNRS, ECPM/Université Louis Pasteur, 1 rue B. Pascal, 67008, Strasbourg France

Hydroxypinanone 1 exhibits non-linear behavior of the optical rotation and even EtOH leads to significant discrepencies.



1 (+)-*RRR*

1(+)-100% e.e from GC : $[\alpha_o]_D^{24}$ = **+41.4 (c=3, $CHCl_3$)**
+22.9 (c=3, EtOH)

1(+)-90% e.e from GC : $[\alpha]_D^{24}$Max = +44.5 (c=3, $CHCl_3$) *overestimated*
+21.7 (c=3, EtOH) *underestimeted*

1(+)-70% e.e from GC : $[\alpha]_D^{24}$Max = +35.7 (c=3, $CHCl_3$) *underestimeted*
+19.8 (c=3, EtOH) *underestimeted*

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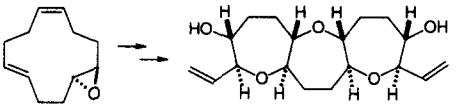
A FACILE SYNTHESIS OF AN OXATRICYCLIC *TRANS-SYN-TRANS*-SUBSTITUTED OXEPANYL FRAMEWORK

Eduardo Manta,*[a] Laura Scarone,[a] Gonzalo Hernández,[a] Raul Mariezcurrena,[b] Leopoldo Suescun,[b] Iván Brito,[c] Ignacio Brouard,[d] M. Carmen González,[d] Ricardo Pérez,[d] and Julio D. Martín*[d] [a]Cátedra de Química Farmacéutica, Universidad de la República, Uruguay; [b]Cátedra de Cristalografía, Universidad de la República, Uruguay; [c]Facultad de Ciencias Básicas, Universidad de Antofagasta, Chile; [d]Instituto de Investigaciones Químicas, CSIC, Isla de La Cartuja, Sevilla, Spain

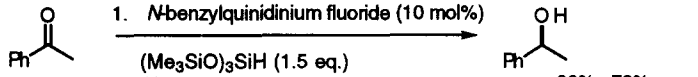


Tetrahedron Letters, **1997**, *38*, 5857

THE ASYMMETRIC REDUCTION OF KETONES USING CHIRAL AMMONIUM FLUORIDE SALTS AND SILANES

Mark D. Drew, Nicholas J. Lawrence,* Dept. of Chemistry, UMIST, PO Box 88, Manchester, M60 1QD, UK.
William Watson , Lancaster Synthesis Ltd., Eastgate, White Lund, Morecambe, Lancs. LA3 3DY
and Stephen A. Bowles, British Biotech, Watlington Road, Oxford, OX4 5LY

Ketones are reduced with moderate enantioselectivity by silanes bearing alkoxyl or siloxy groups and chiral ammonium fluoride salts derived from cinchona alkaloids.



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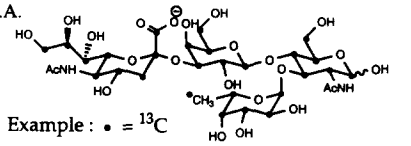
CHEMOENZYMATIC SYNTHESIS OF THE GM_3, LEWIS X AND SIALYL LEWIS X OLIGOSACCHARIDES IN ^{13}C-ENRICHED FORM

Mark A. Probert, Mark J. Milton, Richard Harris, Sergio Schenkman,[a] Jonathan M. Brown,[b] Steven W. Homans and Robert A. Field*
School of Chemistry and Centre for Biomolecular Sciences, University of St Andrews, St Andrews, Fife KY16 9ST, U.K.
a Dept. de Microbiologia, Imunologia e Parasitologia, Escola Paulista de Medicina, UNIFESP, 04023-062 Sao Paulo, BRAZIL
b Martek Biosciences Corporation, 6480 Dobbin Road, Columbia, MD 21045, U.S.A.

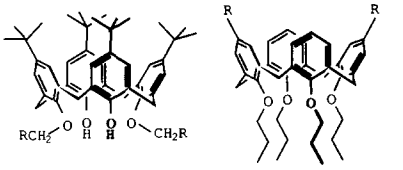
The chemoenzymatic synthesis of biologically important oligosaccharides in ^{13}C-enriched form is reported.



Tetrahedron Letters, **1997**, *38*, 5865

CALIX[4]ARENE BASED α-AMINOPHOSPHONATES: NOVEL CARRIERS FOR ZWITTERIONIC AMINO ACIDS TRANSPORT. I.S.Antipin,* I.I.Stoikov, E.M.Pinkhassik, N.A.Fitseva, I.Stibor, A.I.Konovalov
Kazan State University, Kremlevskaja 18, 420008 Kazan, Russia
Institute of Chemical Technology, Technicka 5, 16628 Prague, The Czech Republic

The calix[4]arene based α-aminophosphonates exhibit remarkable selectivity as carriers for the membrane transport of the zwitterionic form of aromatic amino acids.



R ≡ $CH_2NHCR'_2P(O)(OEt)_2$

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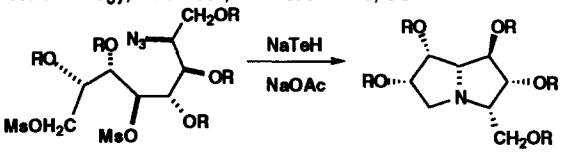
SYNTHESIS OF CASUARINES [PENTAHYDROXYLATED PYRROLIZIDINES] BY SODIUM HYDROGEN TELLURIDE-INDUCED CYCLISATIONS OF AZIDODIMESYLATES
A. A. Bell, L. Pickering, A. A. Watson, Robert J. Nash, Y. T. Pan, A. D. Elbein and G. W. J. Fleet*
Dyson Perrins Laboratory, Oxford University, South Parks Road, Oxford OX1 3QY UK; Institute of Grassland and Environmental Research, Plas Gogerddan, Aberystwyth, Cardiganshire SY23 3EB UK; University of Arkansas for Medical Sciences, Department of Biochemistry & Molecular Biology, Little Rock, Arkansas 72205, USA

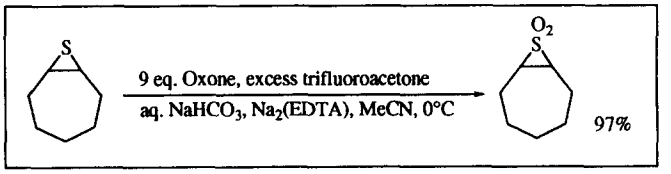
The first synthesis of diastereomers of the very highly oxygenated pyrrolizidine casuarine relies on the Suzuki-Takaoka NaTeH reduction of azidomesylates, followed by high yield concommitant bicyclisation.



Tetrahedron Letters, **1997**, *38*, 5873

THE FIRST PREPARATION OF EPISULFONES FROM EPISULFIDES: OXIDATION USING OXONE®/TRIFLUOROACETONE

Paul Johnson and Richard J. K. Taylor*



Department of Chemistry, University of York, Heslington, York YO1 5DD, UK

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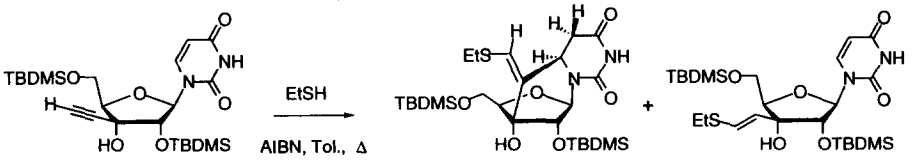
CYCLIZATION BY FREE RADICAL ADDITION OF STANNYL OR THIYL RADICAL TO 3'-β-ETHYNYL URIDINE. IS THE 3'-β-ETHYNYL GROUP A SPIN TRAP IN RIBONUCLEOTIDE REDUCTASE? Pierre M. J. Jung, Jérôme Dauvergne, Alain Burger*, and Jean-François Biellmann. Laboratoire de Chimie Organique Biologique associé au CNRS URA 31, Faculté de Chimie, Université Louis Pasteur, 1 rue Blaise Pascal, 67008 Strasbourg, France.

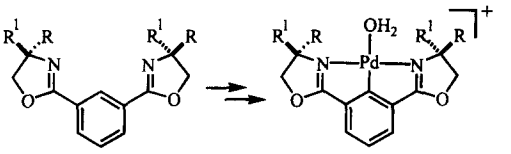


Tetrahedron Letters, **1997**, *38*, 5881

SYNTHESIS AND APPLICATION OF CATIONIC 2,6-BIS(2-OXAZOLINYL)PHENYLPALLADIUM(II) COMPLEXES

Mark A. Stark and Christopher J. Richards

Department of Chemistry, University of Wales, Cardiff, PO Box 912, Cardiff, CF1 3TB, UK



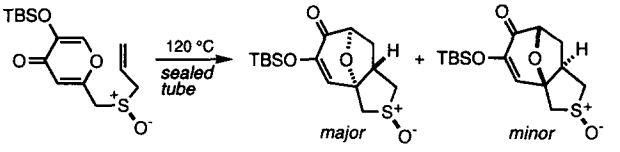
Tetrahedron Letters, **1997**, *38*, 5885

USE OF A SULFINYL TETHER TO CONTROL DIASTEREOFACIAL SELECTIVITY IN [5C + 2C] PYRONE-ALKENE CYCLOADDITIONS

Antonio Rumbo, Luis Castedo, and José L. Mascareñas*

Departamento de Química Orgánica y Unidad Asociada al C.S.I.C. 15706, Santiago de Compostela. Spain

The presence of a sulfoxide group in a disposable tether linking an alkene to a 5-silyloxy-4-pyrone induces moderate levels of diastereofacial selectivity in their internal thermal [5+2] cycloaddition



Tetrahedron Letters, **1997**, *38*, 5887

NOVEL RING OPENING REACTIONS OF METHYLENEAZIRIDINES

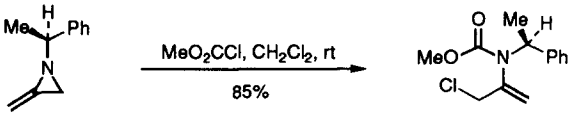
Julie Ince and Michael Shipman*

Department of Chemistry, University of Exeter, Stocker Road, Exeter, Devon, EX4 4QD, U.K.

David S. Ennis

SmithKline Beecham Pharmaceuticals, New Frontiers Science Park, Third Avenue, Harlow, Essex, CM19 5AW, U.K.

Methyleneaziridines can be ring opened with chloroformates and acid chlorides to functionalised enamines under mild reaction conditions.

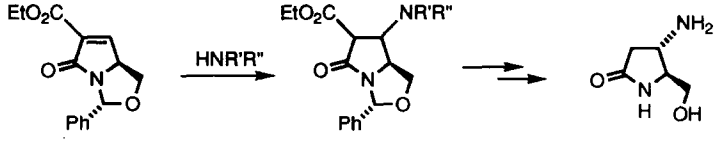


Tetrahedron Letters, **1997**, *38*, 5891

CONJUGATE ADDITION OF NITROGEN NUCLEOPHILES TO AN α,β-UNSATURATED PYRROLIDINONE

P.W.H. Chan, I.F. Cottrell and M.G. Moloney

Dyson Perrins Laboratory, University of Oxford, South Parks Rd, Oxford. OX1 3QY, and Merck Sharp and Dohme Research Laboratories, Hertford Rd, Hoddesdon, Herts. EN11 9BU.

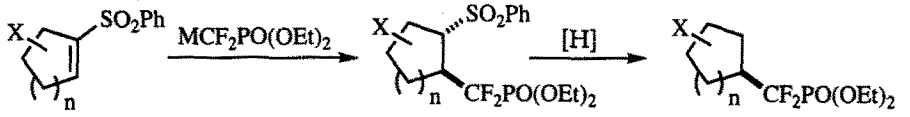


Tetrahedron Letters, **1997**, *38*, 5895

CONJUGATE ADDITION REACTIONS OF A (DIETHOXYPHOSPHINOYL)DIFLUOROMETHYL ANION EQUIVALENT TO ACYCLIC AND CYCLIC VINYL SULFONES

Kevin Blades, Dominique Lapôtre and Jonathan M. Percy

Generating the conjugate base of diethyl difluoromethanephosphonate in the presence of cerium(III) chloride allows conjugate addition to cyclic vinyl sulfones in moderate to good yield. Desulfonation occurred under mild amalgam conditions.

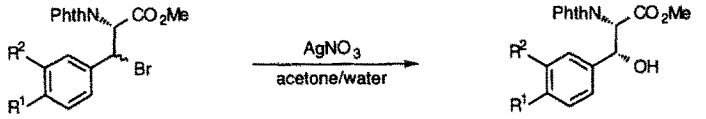


Tetrahedron Letters, **1997**, *38*, 5899

SUBSTITUENT EFFECTS IN THE STEREOCONVERGENT SYNTHESIS OF β-HYDROXYPHENYLALANINE DERIVATIVES.

Craig A. Hutton, School of Chemistry, The University of Melbourne, Parkville, Victoria 3052, Australia

The degree of stereoconvergence in the synthesis of β-hydroxyarylalanine derivatives from the corresponding β-bromoarylalanine derivatives is governed by the electronic nature of the aryl substituents.

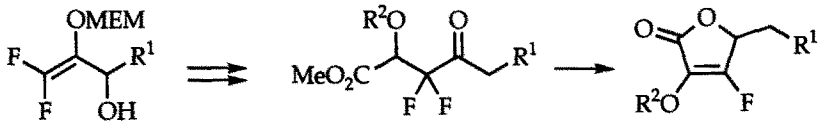


Tetrahedron Letters, **1997**, *38*, 5903

CHELATED [3,3]-REARRANGEMENTS OF DIFLUOROALLYLIC ALCOHOLS

Michael J. Broadhurst, Jonathan M. Percy and Michael E. Prime

Chelated ester enolates derived from difluoroallylic alcohols underwent smooth [3,3]-rearrangements as their silyl ketene acetals. The enol acetal function in the crude products was unmasked under mild conditions to afford highly functionalised products conatining a CF_2 group, and in one case, a butenolide.



Tetrahedron Letters, **1997**, *38*, 5907

RADICAL CYCLISATION OF AMINO ALDEHYDES LEADING TO HYDROXY PYRROLIDINES AND PIPERIDINES

Andrew F. Parsons* and Robert M. Pettifer, Department of Chemistry, University of York, Heslington, York, YO1 5DD, UK

The Bu_3SnH mediated cyclisation of amino aldehydes bearing an electron rich or poor double bond gives rise to disubstituted pyrrolidines and piperidines.