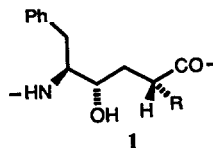


Tetrahedron Lett. 1993, 34, 6169

Stereoselective Synthesis of a Hydroxyethylene

Dipeptide Isostere Ann M. Diederich and David M. Ryckman*, Synthetic Chemistry Department, SmithKline Beecham Pharmaceuticals, 709 Swedeland Road, King of Prussia, PA 19406

A stereoselective synthesis of a hydroxyethylene dipeptide isostere for Phe-Gly, (4*S*, 5*S*)-4-hydroxy-5-amino-6-phenylhexanoic acid, is described. The use of dibenzyl protecting groups on ketoamine 5 accounts for the selectivity on reduction. Also, the dibenzyl group plays a role in directing the introduction of a third chiral center.

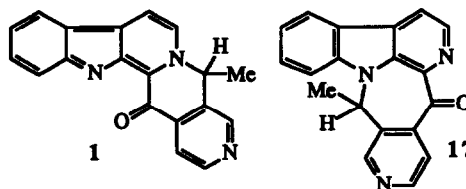


Tetrahedron Lett. 1993, 34, 6173

MAXONINE: STRUCTURE CORRECTION AND SYNTHESIS

T. Ross Kelly*, Wei Xu and Jayashree Sundaresan
Department of Chemistry, E.F. Merckert Chemistry Center,
Boston College, Chestnut Hill, MA 02167

The structure for the pentacyclic alkaloid maxonine is revised from 1 to 17. Compound 17 was prepared by total synthesis and shown identical to the natural product.

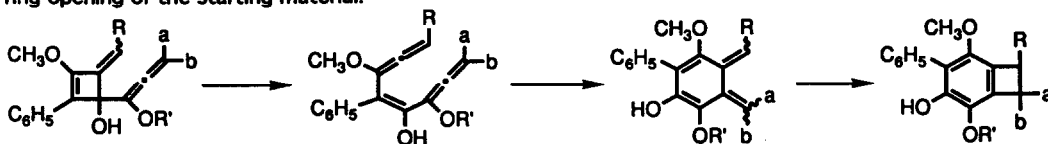


Tetrahedron Lett. 1993, 34, 6177

Synthesis of o-Quinodimethanes and Benzocyclobutenes from Dimethyl Squarate.

Ezcurra, J. E.; Moore, H. W., Department of Chemistry, University of California, Irvine, CA 92717

3-Alkylidene(or benzylidene)4-allenylcyclobutenes lead to quinodimethanes and thus benzocyclobutenes upon thermolysis. The key intermediate is envisaged to be octa-1,2,4,6,7-pentaenes formed upon electrocyclic ring opening of the starting material.

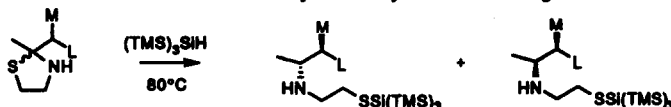


Tetrahedron Lett. 1993, 34, 6181

Cram's Rule for Radicals: Stereoselective Hydrogen Abstraction Reactions of N-H Substituted Radicals

Dennis P. Curran* and Shunneng Sun
Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260, USA

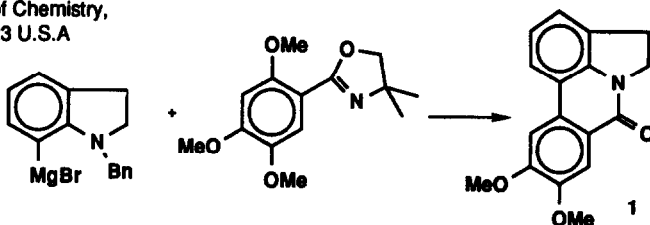
Summary: Radical reductions of chiral thiazolidines with $(\text{TMS})_3\text{SiH}$ reveal stereochemical parallels between ionic reactions of ketones/imines and radical reactions of aminoalkyl radicals bearing NHR substituents.



A Total Synthesis of the Pyrrolophenanthridone Alkaloid Oxossoanine

A. I. Meyers* and R. H. Hutchings, Department of Chemistry, Colorado State University, Fort Collins, CO 80523 U.S.A

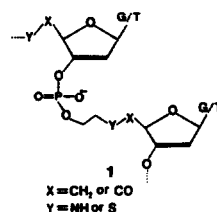
Coupling of the Grignard derived from 7-bromoindoline with an aryl oxazoline provides a new route to the pyrrolophenanthridone alkaloids, as demonstrated by the synthesis of oxossoanine 1.



Synthesis of Triple Helix Forming Oligonucleotides with a Stretched Phosphodiester Backbone

T. Sudhakar Rao,* K. Jayaraman, and Ganapathi R. Revankar
Triplex Pharmaceutical Corp., The Woodlands, TX 77380, U.S.A.

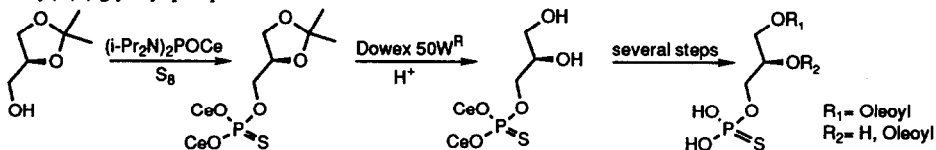
The facile synthesis of suitably protected novel monomeric phosphoramidite building blocks of thymidine and 2'-deoxyguanosine, and their use in the preparation of triple helix forming oligonucleotides with an extended phosphodiester backbone (1) has been demonstrated.



SYNTHESIS OF (R)-LYSOTHIOPHOSPHATIDIC ACID AND (R)-THIOPHOSPHATIDIC ACID

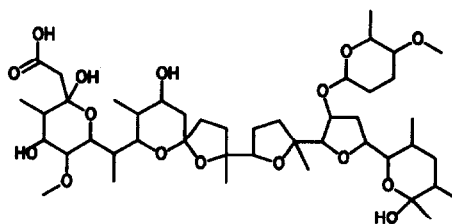
Norbert V. Heeb and Krishnan P. Nambiar*
Department of Chemistry, University of California Davis, Davis, CA 95616

(R)-Lysothiophosphatidic acid and (R)-Thiophosphatidic acid are obtained in high yield via sulfurization of a bis-(2-cyanoethyl)-(R)-glyceryl-phosphite triester.



SEM DURAMICIN AND TWO DESMETHYL ANALOGS: ¹³C NMR AND FAB MASS SPECTRAL CORRELATIONS. Thomas R. Sharp*, Julie A. Wood and Antonio Grizzuti, Analytical R&D, Central Research Division, Pfizer Inc., Groton, Connecticut 06340 U.S.A.

¹³C NMR and FAB mass spectral study of semduramicin and two desmethyl structural analogs reveals the sites of the missing methyl groups, and further clarifies the mass spectral fragmentation of this molecule.

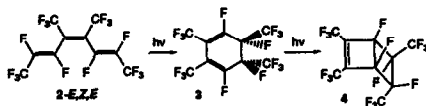


Tetrahedron Lett. 1993, 34, 6201

PHOTOCHEMICAL ELECTROCYCLIZATION OF PERFLUORO-E,Z,E-4,5-DIMETHYL-2,4,6-OCTATRIENE. Keith W. Palmer and

William R. Dolbier, Jr.*; Department of Chemistry; University of Florida; Gainesville, FL 32611-2046

Photolysis of the title compound leads to a clean 6- π conrotatory electrocyclic reaction followed by a less-efficient 4- π disrotatory electrocyclic process.

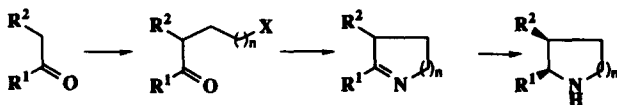


Tetrahedron Lett. 1993, 34, 6205

A General Stereocontrolled Synthesis of *cis*-2,3-Disubstituted Pyrrolidines and Piperidines. Kollol Pal,*

Mark L. Behnke and Liang Tong, Department of Medicinal Chemistry, Boehringer Ingelheim Pharmaceuticals Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877-0368

Abstract: A general synthetic method is reported for the preparation of *cis*-2,3-disubstituted pyrrolidines and piperidines from readily available acyclic precursors. The key reaction involves the stereoselective reduction of a cyclic imine controlled by the *C*-3 substituent.

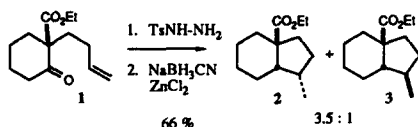


Tetrahedron Lett. 1993, 34, 6209

ALKYL RADICAL GENERATION BY REDUCTION OF A KETONE TOSYLHYDRAZONE

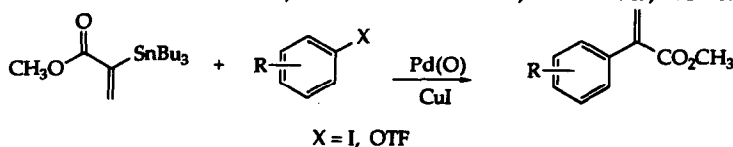
Douglas F. Taber, Yanong Wang and Shawn J. Stachel, Department of Chemistry & Biochemistry, University of Delaware, Newark, DE 19716 USA

Reduction of the tosylhydrazone of ketone 1 with NaBH₃CN in the presence of ZnCl₂ leads to cyclized esters 2 and 3 in a ratio of 3.5 : 1.



Tetrahedron Lett. 1993, 34, 6211

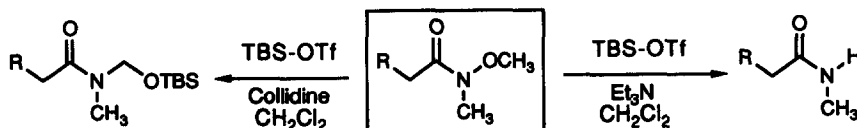
Palladium-Catalyzed Coupling of an α -Stannyl Acrylate to Aryl Iodides and Triflates. A One-Step Synthesis of Aryl Propenoic Esters. Jeremy I. Levin, American Cyanamid Company, Medical Research Division, Lederle Laboratories, Pearl River, NY 10965



Some Unusual Reactions of Weinreb Amides

Tetrahedron Lett. 1993, 34, 6215

Gary E. Keck,* Stanton F. McHardy, and Jerry A. Murry
Department of Chemistry, University of Utah, Salt Lake City, Utah, 84112

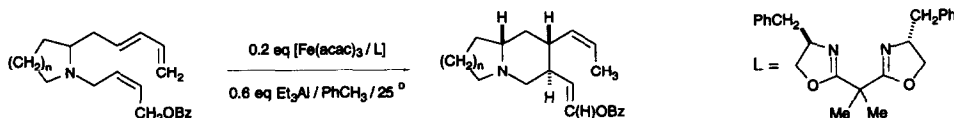


CATALYTIC IRON-MEDIATED ENE CARBOCYCLIZATIONS OF TRIENES: INVESTIGATIONS INTO THE STEREOSELECTIVE FORMATION OF SOME BICYCLIC LACTAMS AND AMINES.

James M. Takacs*, John J. Weidner and Beckie E. Takacs, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304

Tetrahedron Lett. 1993, 34, 6219

Certain bicyclic (*i.e.*, indolizidine and quinolizidine) ring systems can be constructed in a stereoselective fashion using an iron-catalyzed carbocyclization.



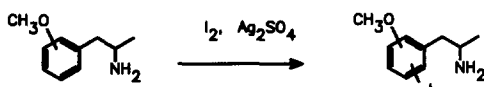
IODINATION OF METHOXYAMPHETAMINES WITH IODINE

AND SILVER SULFATE.

Wing-Wah Sy, Pharmaceutical Chemistry Division, Bureau of Drug Research, Health Protection Branch, Health and Welfare Canada, Tunney's Pasture, Ottawa, Ontario, K1A 0L2, Canada

Iodination of methoxyamphetamines with iodine / silver sulfate at room temperature gives iodomethoxyamphetamines in good yield.

Tetrahedron Lett. 1993, 34, 6223

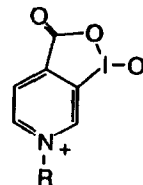


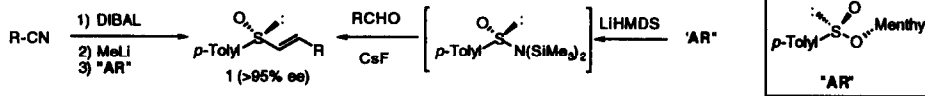
Toward A Broad Spectrum Decontaminant For Reactive Toxic Phosphates/Phosphonates: N-Alkyl-3-Iodoso-Pyridinium-4-Carboxylates

Tetrahedron Lett. 1993, 34, 6225

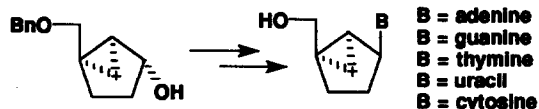
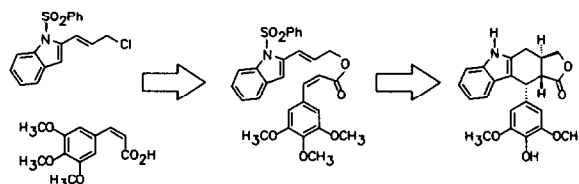
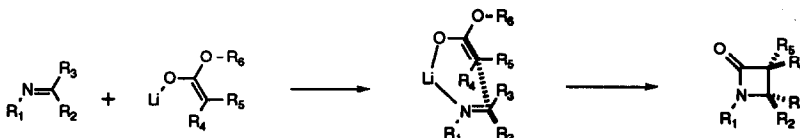
R. A. Moss and H. Zhang, Department of Chemistry, Rutgers University, New Brunswick, New Jersey 08903

N-n-hexadecyl-3-iodosopyridinium-4-carboxylate has $pK_a < 5.0$, and, in comicellar aqueous cetyltrimethylammonium chloride, rapidly cleaves p-nitrophenyldiphenyl phosphate in acidic solution.



ASYMMETRIC SYNTHESIS OF SULFINIMINES: CHIRAL AMMONIA IMINE SYNTHONSFranklin A. Davis,* Rajarathnam E. Reddy, Joanna M. Szewczyk and Padma S. Portonovo
Department of Chemistry, Drexel University, Philadelphia, PA 19104Procedures are described for the synthesis of sulfonimines **1** from the Andersen Reagent (AR), nitriles and aldehydes.**SYNTHESIS OF CYCLOPROPANE-FUSED DIDEOXY-CARBOCYCLIC NUCLEOSIDES STRUCTURALLY RELATED TO NEPLANOCIN C.**Juan B. Rodriguez, Victor E. Marquez,* Marc C. Nicklaus, and Joseph J. Barchi, Jr. *Laboratory of Medicinal Chemistry, Developmental Therapeutics Program, Division of Cancer Treatment, National Cancer Institute, NIH, Bethesda, MD 20892*

Five novel carbocyclic dideoxynucleosides with a bicyclo[3.1.0]hexane skeleton were synthesized by a Mitsunobu-type coupling with various heterocyclic bases. These compounds appear to prefer a typical nucleoside northern conformation.

**SYNTHESIS OF TETRAHYDROFUROCARBAZOLONES VIA INTRAMOLECULAR DIELS-ALDER REACTIONS**Jose S. Madalenoitia and Timothy L. Macdonald*
Department of Chemistry, University of Virginia
Charlottesville, Virginia 2290110-Aryl-3a,3,10,10a-tetrahydro-furo[3,4-b]carbazol-1-ones, as illustrated by *isoelliptitoxin 2*, were synthesized by intramolecular Diels-Alder reactions.***Ab Initio* Transition States for the Reaction of α -Hydroxyl Lithium Ester Enolates with Imine.**Xuebao Wang* and Che Lee
Laboratory of Computational Chemistry, Chemmechanics Inc., 27 Ainsworth Avenue, East Brunswick, NJ 08816A boat-like and an envelope-like transition states for the reactions of α -hydroxyl ester lithium enolates with imine to form β -lactams were located with *ab initio* molecular orbital theory at the RHF/3-21G and RHF/6-31G** levels.

THIOMETHYLATION OF INDOLE AND HALOINDOLE ZINC SALTS

Tetrahedron Lett. **1993**, *34*, 6245

Cindy C. Browder, Miguel O. Mitchell*, Rhonda L. Smith, and Gibran el-Sulayman,
Department of Chemistry, Oberlin College, Oberlin OH 44074

A one-pot synthesis of 3-(thiomethyl)indoles **2** from the zinc salts of indole and haloindoles **1** is described.

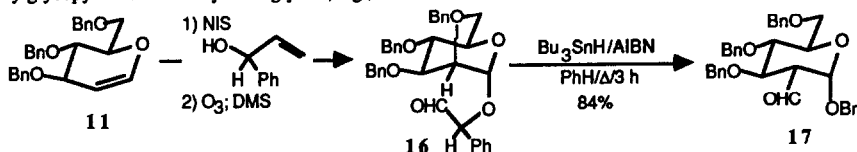


STEREOSPECIFIC INTRAMOLECULAR FORMYL TRANSFER VIA RADICAL CYCLIZATION-FRAGMENTATION: PREPARATION OF ALKYL 2-DEOXY-2- α -FORMYLGLUCOPYRANOSIDES AND SIMILAR COMPOUNDS

Tetrahedron Lett. **1993**, *34*, 6247

Michael E. Jung* & S.W. Tina Choe, Department of Chemistry and Biochemistry, University of California, Los Angeles, California 90024

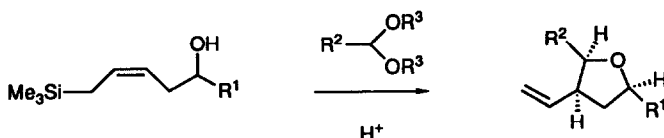
A stereospecific intramolecular transfer of a formyl group via a radical cyclization-fragmentation pathway has been developed to prepare alkyl 2-deoxy-2- α -formylglycopyranosides easily from glycols, e.g., conversion of **11** into **17** via the iodosegar **16**.



STEREOSELECTIVE APPROACH TO TRISUBSTITUTED TETRAHYDROFURANS

Tetrahedron Lett. **1993**, *34*, 6251

Peter Mohr, Pharmaceutical Research Department, F. Hoffmann-La Roche Ltd, CH-4002 Basel, Switzerland



SYNTHESIS OF BOTH D- AND L-FMOC-ABU[PO(OCH2CH=CH2)2]-OH FOR SOLID PHASE PHOSPHONOPEPTIDE SYNTHESIS

Tetrahedron Lett. **1993**, *34*, 6255

Gideon Shapiro, Dieter Buechler, Vicente Ojca, Esteban Pombo-Villar, Maria Ruiz and Hans-Peter Weber
Preclinical Research, Sandoz Pharma Ltd., CH-4002 Basel, Switzerland

The Schölkopf bislactim ether asymmetric amino acid synthesis was coupled with a subsequent enzyme mediated ester hydrolysis to generate a practical synthesis of both D- and L-Fmoc-Abu[PO(OCH2CH=CH2)2]-OH.

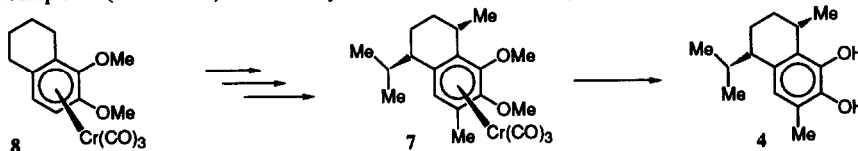


Tetrahedron Lett. 1993, 34, 6259

TOTAL SYNTHESIS OF (1S,4S)-7,8-DIHYDROXYCALAMENENE VIA BENZYLIC ALKYLATION OF η^6 -ARENE-Cr(CO)₃ COMPLEXES

Hans-Günther Schmalz*, Jens Hollander, Markus Arnold, and Gerd Dürmer
Institut für Organische Chemie der Universität, Mertonviertel, Marie-Curie-Straße 11, 60439 Frankfurt/Main, Germany

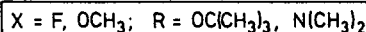
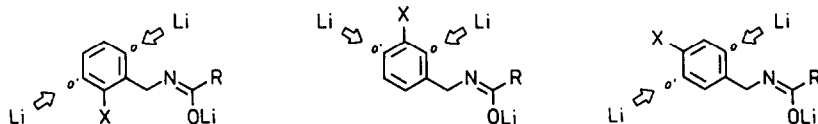
The chiral complex **8** (> 99 % e.e.) is efficiently converted *via* **7** to the target **4** without loss of enantiomeric purity.



Tetrahedron Lett. 1993, 34, 6263

Site Selective Substitution of Carbamate and Carbamoyl Protected Benzylamines

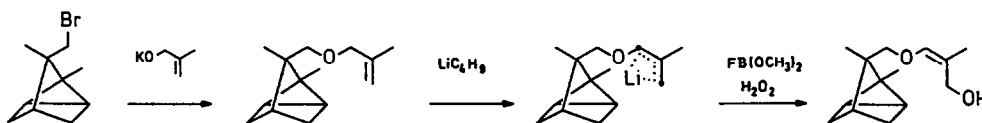
Georges Katsoulos and Manfred Schlosser*
Institut de Chimie organique, Université de Lausanne, Switzerland



Tetrahedron Lett. 1993, 34, 6265

4'-Oxa- α -santalene and 4'-Oxa- α -santalol : An Olfactory Comparison with the Analogous Natural Sesquiterpenes

Guo-fu Zhong and Manfred Schlosser*
Institut de Chimie organique Université de Lausanne, Switzerland

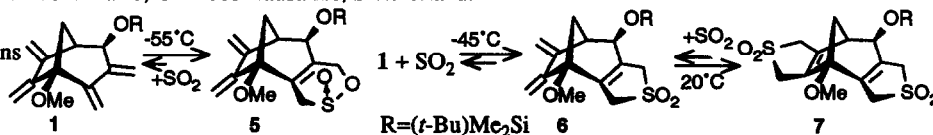


Tetrahedron Lett. 1993, 34, 6269

Site- and Regioselectivity of the Hetero-Diels-Alder and Cheletropic Additions of Sulfur Dioxide to a 2,3,6,7-Tetramethyldenebicyclo[3.2.1]octane Derivative

Brigitte Deguin, Pierre Vogel*, Section de Chimie de l'Université
de Lausanne, 2, rue de la Barre, CH 1005 Lausanne, Switzerland.

The following
selective reactions
of SO₂ are
presented:

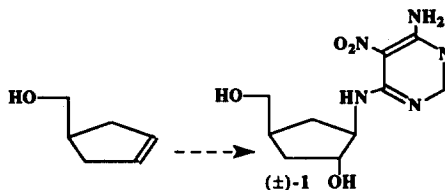


SYNTHESIS OF A NEW EXOCYCLIC AMINO CARBOCYCLIC NUCLEOSIDE WITH POTENTIAL ANTIVIRAL ACTIVITY

(1) Agrofoglio L., Condom R., Guedj R.; Lab. Chimie Bio-Organique, UNSA, Faculté des Sciences, 06108 Nice, France.
(2) Challand R., Selway, J.; Wellcome Research Laboratories, Langley Court, Beckenham, Kent BR3 3BS, Great Britain

Tetrahedron Lett. 1993, 34, 6271

1-Hydroxymethyl-3-cyclopentene has been converted regioselectively into a new carbocyclic nucleoside (\pm)-1, in six steps.



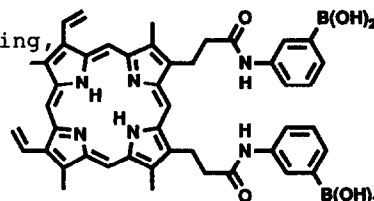
SUGAR SENSING UTILIZING AGGREGATION PROPERTIES OF A BORONIC-ACID-APPENDED PORPHYRIN

Hiroto Murakami, Takeshi Nagasaki, Itaru Hamachi, and Seiji Shinkai

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

The UV-visible and fluorescence spectral properties of a boronic-acid-appended porphyrin changed sensitively on the addition of saccharides. This is a new concept for sugar sensing.

Tetrahedron Lett. 1993, 34, 6273



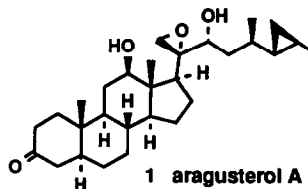
ARAGUSTEROL A: A POTENT ANTITUMOR MARINE STEROID FROM THE OKINAWAN SPONGE OF THE GENUS, XESTOSPONGIA

Kazuo Iguchi,* Michinari Fujita, Hiroto Nagaoka, Hidemichi Mitome, and Yasuji Yamada*

Tokyo College of Pharmacy, Horinouchi, Hachioji, Tokyo 192-03, Japan

The full structure of aragusterol A (1), a new antitumor marine steroid from the Okinawan sponge, was determined by spectroscopic analysis and chemical evidence.

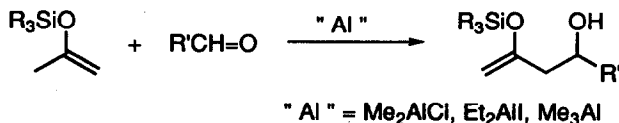
Tetrahedron Lett. 1993, 34, 6277



Lewis Acid Promoted Ene-like Reactions of Enol Ethers with Aldehydes

Hisashi Shoda, Takashi Nakamura, Keiji Tanino, and Isao Kuwajima*
Department of Chemistry, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan

Tetrahedron Lett. 1993, 34, 6281



Synthetic Studies on Polypropionate Antibiotics Based on the Stereospecific Methylation of γ,δ -Epoxy Acrylates by Trimethylaluminum. A Highly Stereoselective Construction of the Eight Contiguous Chiral Centers of Ansa-chains of Rifamycins

Masaaki Miyashita,^{*a} Kousei Yoshihara,^a Katsumi Kawamine,^a

Masahide Hoshino,^b and Hiroshi Irie^{*a}

^aFaculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki 852, Japan

^bBiological Science Laboratories, Kao Corporation, Tochigi 321-34, Japan

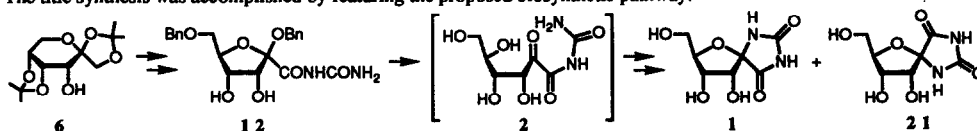
A Novel Biogenetic Type Synthesis of (+)-Hydantocidin

Miyoko Matsumoto, Masayuki Kiriara, Toshiharu Yoshino,

Tadashi Katoh, Shiro Terashima*

Sagami Chemical Research Center, Nishi-Ohnuma, Sagamihara, Kanagawa 229, Japan

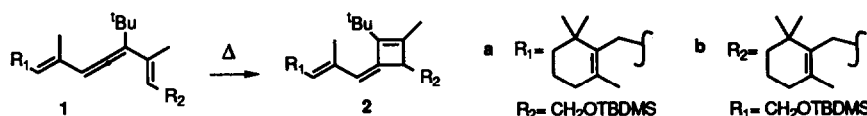
The title synthesis was accomplished by featuring the proposed biosynthetic pathway.



UNIDIRECTIONAL THERMAL ELECTROCYCLIC RING FORMING REACTIONS OF METHYLENENCYCLOBUTENES

FROM VINYLALLENES IN THE RETINOID SERIES José García Rey, Jesús Rodríguez (*) and Angel R. de Lera*
Departamentos de Química Orgánica y Química Física (*). Universidad de Santiago de Compostela. 15706 Santiago. SPAIN.

tert-Butyl substituted 11,7-retroretinoids 1 cyclize regioselectively to methylenecyclobutenes 2 at moderate temperatures (90-120 °C) in an irreversible first-order process. Ab initio 6-31G* calculations suggest steric effects predominantly determine the regioselectivity.

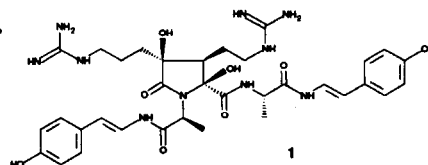


A DIMERIC PEPTIDE ALKALOID OF A COMPLETELY NEW TYPE, ANCHINOPEPTOLIDE A, FROM THE MARINE SPONGE ANCHINOE TENACIOR

Agostino Casapullo, Ester Finamore, Luigi Minale* and Franco Zollo

Dipartimento di Chimica delle Sostanze Naturali, Università di Napoli Federico II, via D. Montesano 49, 80131, Napoli, Italy.

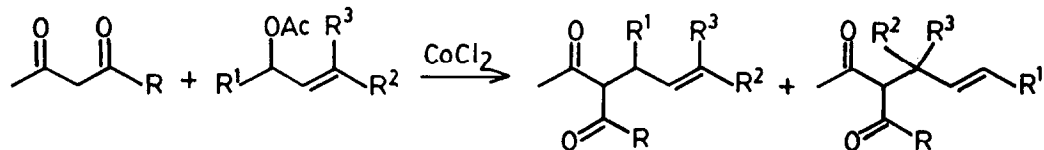
The structure elucidation of Anchinopeptolide A (1), a dimeric peptide alkaloid of a completely new type, isolated from the marine sponge *Anchinoe tenacior*, is described.



Cobalt (II) Catalysed Allylation of 1,3- Dicarboxyl Compounds with Allyl Acetates

Beena Bhatia, M.Madhava Reddy and Javed Iqbal*

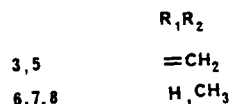
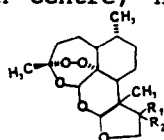
Department of Chemistry, Indian Institute of Technology, Kanpur - 208 016, INDIA



ROLE OF RADICAL INITIATED CYCLISATION REACTIONS IN THE SYNTHESIS OF ARTEMISININ BASED NOVEL RING SKELETONS.

B. Venugopalan*, S. L. Shinde and P. J. Karnik,
Department of Chemistry, Research Centre, Hoechst India Ltd, Mulund,
Bombay, India. 400080.

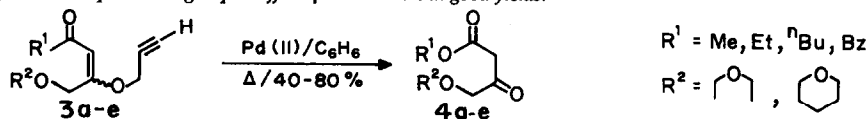
Bromoacetals **2a-e** underwent
radical cyclisation to give
3, 5 and **6** respectively and the
bromoacetal **2f** gave **7** and **8**.



PALLADIUM CATALYZED CHEMOSELECTIVE CLEAVAGE OF β -PROPARGYLOXY- α , β -UNSATURATED ESTERS: APPROACH TO γ -PROTECTED HYDROXY- β -KETOESTERS

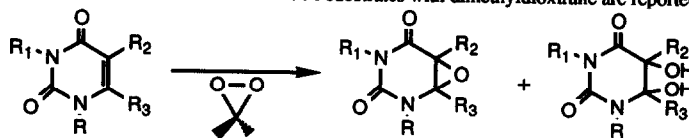
Gurdeep S. Sarin, Division of Organic Synthesis, National Chemical Laboratory, Pune 411 008, INDIA

Catalytic amounts of palladium (II) complexes chemoselectively cleave the acid stable propargyloxy functionality of **3** in the presence of acid labile protective group to afford β -ketoesters **4** in good yields.



OXIDATION OF URACIL DERIVATIVES AND PYRIMIDINE NUCLEOSIDES BY DIMETHYLDIOXIRANE:

A NEW AND MILD SYNTHESIS OF 5,6-OXIRANYL-5,6-DIHYDRO- AND 5,6-DIHYDROXY-5,6-DIHYDRO-DERIVATIVES. Paolo Lupattelli, Raffaele Saladino and Enrico Mincione. Università di Viterbo "La Tuscia", 01100 Viterbo. The reactions of title substrates with dimethyldioxirane are reported.

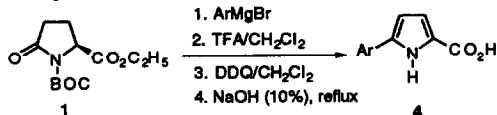


GENERAL METHOD FOR THE SYNTHESIS OF 5-ARYL PYRROLE-2-CARBOXYLIC ACIDS.

Jesús Ezquerro^{*1}, Concepción Pedregal¹, Almudena Rubio¹, Jesús Valenciano², José Luis García Navio², Julio Álvarez-Builla² and Juan José Vaquero^{*2}

1.- Centro de Investigación Lilly, S. A., Paraje de la Cruz S/N. 28130 Valdeolmos. Madrid. Spain.

2.- Departamento de Química Orgánica, Universidad de Alcalá. 28871 Alcalá de Henares. Madrid. Spain.



Ethyl N-BOC pyrroglutamate 1 undergoes ring opening with aryl Grignard reagents to give, after deprotection, ethyl 2-aryl- Δ^1 -pyrroline-5-carboxylate 3. DDQ oxidative aromatization of 3 followed by basic hydrolysis gave rise to 5-arylpyrrole-2-carboxylic acids 4.

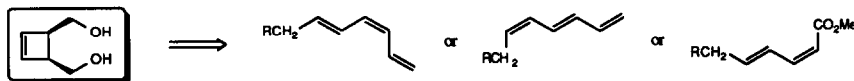
USE OF *cis*-3-CYCLOBUTENE-1,2-DIMETHANOL IN STEREOSELECTIVE ROUTES TO SOME NATURALLY OCCURRING CONJUGATED DIENES AND TRIENES

Kevin J. Hodgetts, Suthiweth T. Saengchantara, Christopher J. Wallis, and Timothy W. Wallace^{*}

Department of Chemistry and Applied Chemistry, University of Salford, Salford M5 4WT, U.K.

and Glaxo Group Research Ltd., Park Road, Ware, Herts. SG12 0DP, U.K.

Thermal electrocyclic ring-opening of 4-alkyl-2-cyclobutene-1-carbaldehydes at low temperature gives (2*Z*,4*E*)-alkadienals exclusively. This process allows access to isomeric 1,3,5-alkatrienes and 2,4-alkadienoates from one precursor, *cis*-3-cyclobutene-1,2-dimethanol.

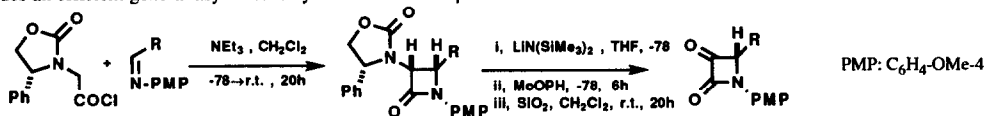


ASYMMETRIC SYNTHESIS OF α -KETO- β -LACTAMS VIA [2+2] CYCLOADDITION REACTION: A CONCISE APPROACH TO OPTICALLY ACTIVE α -HYDROXY- β -LACTAMS AND β -ALKYL(ARYL)ISOSERINES

Claudio Palomo, Jesus M. Aizpurua, Jose I. Miranda, Antonia Mielgo, Jose M. Odriozola

Departamento de Química Orgánica. Facultad de Química. Universidad del País Vasco. Apto 1072. 20080, San Sebastian. Spain.

The cycloaddition reaction of the Evans-Sjögren ketene to imines, followed by α -hydroxylation of the resulting cycloadducts provides an efficient general asymmetric synthesis of α -keto β -lactams and derivatives.

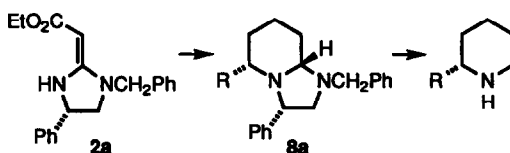


A NEW ROUTE TO HOMOCHIRAL PIPERIDINES

Raymond C F Jones^{*}, Ian Turner, and Kevin J Howard

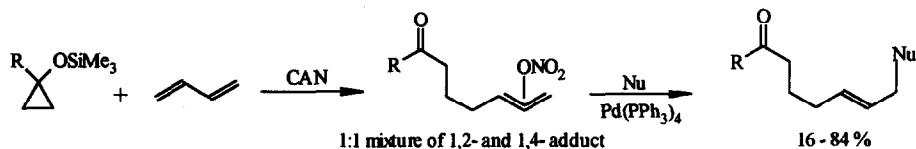
(Chemistry Department, Nottingham University, Nottingham NG7 2RD, UK)

An enantiomeric pair of enaminoesters, e.g. 2a, is prepared from phenylglycine. Conjugate addition to α,β -enones, reductive cyclization-fragmentation to octahydroimidazopyridines, e.g. 8a, and further reduction to remove the auxiliary atoms, constitutes a new route to homochiral piperidines in which the enaminoesters function as homochiral 'ethanal enamines'.



**PALLADIUM CATALYZED ALKYLATION OF ALLYLIC NITRATES
DERIVED FROM CERIC AMMONIUM NITRATE PROMOTED
OXIDATIVE ADDITION OF TRIMETHYLSILOXY CYCLOPROPANES TO 1,3-BUTADIENE**

Anna Belli Paolobelli, Fabio Gioacchini, Renzo Ruzziconi*
Dipartimento di Chimica, Università di Perugia, 06100-Perugia, Italy.



Chemo-Enzymatic Synthesis of 2'-Deoxynucleoside Urethanes.

Luis F. García-Alles, Francisco Morís, Vicente Gotor, Departamento de Química Orgánica e Inorgánica,
Facultad de Química, Universidad de Oviedo. 33071 Oviedo, Spain.

2'-Deoxynucleoside urethanes were synthesized in a regioselective way using lipases.

