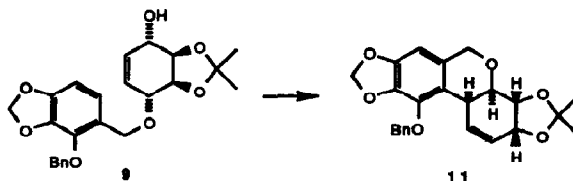


GRAPHICAL ABSTRACTS

A NOVEL CASE OF CATIONIC REARRANGEMENT INVOLVING A PHENONIUM ION. Timothy J. Doyle, Martin

Hendrix, and John Haseltine,* School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, Georgia 30332-0400 USA

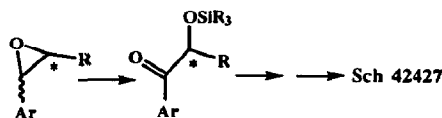
A cationic rearrangement was observed in the intramolecular electrophilic substitution of a trioxygenated benzyl ether. The crystal structure of the product is presented.



Tetrahedron Letters, 1994, 35, 8295

A Rational Approach to Chiral α -Hydroxy Aryl Ketones from Chiral Aryl Epoxides via Regioselective, Stereo Retentive Oxidative Epoxide Opening: Its Application to the Synthesis of Antifungal Sch 42427/SM 9164. Dinesh Gala*, Donald J. DiBenedetto; Schering-Plough Research Institute, Kenilworth, NJ 07033, USA.

A new reaction for the one step conversion of chiral arylepoxides to *O*-protected chiral α -hydroxyketones in good yields has been accomplished. Its application to a total synthesis of Sch 42427 is also described.

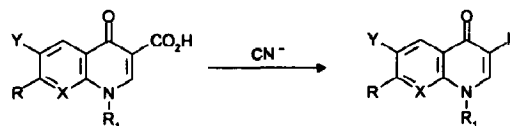


Tetrahedron Letters, 1994, 35, 8299

Cyanide Mediated Decarboxylation of 1-Substituted 4-oxoquinoline and 4-oxo-1,8-naphthyridine-3-carboxylic Acids

Michael Reuman,* Michael A. Eissenstat, and John D. Weaver III

Sterling Winthrop Inc.
Sterling Winthrop Pharmaceuticals Research Division
Department of Medicinal Chemistry
1250 S. Collegeville Rd.
Collegeville, PA 19426

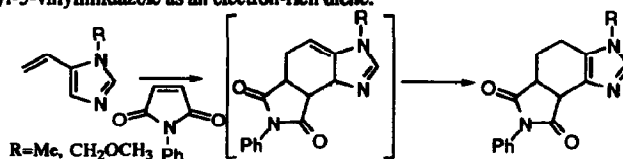


Addition of cyanide to various 4-oxoquinoline and 4-oxo-1,8-naphthyridine-3-carboxylic acids results in decarboxylation. This reaction most likely involves addition of CN^- to the 2-position in order to facilitate loss of CO_2 .

Tetrahedron Letters, 1994, 35, 8303

THE USE OF VINYL IMIDAZOLES AS DIELS-ALDER DIENES Walters, M. A.; Lee, M. D. 6218 Burke Laboratory, Dartmouth College, Hanover, NH 03755

The first use of a vinylimidazole as a Diels-Alder diene is reported. Semiempirical calculations are used to characterize 1-methyl-5-vinylimidazole as an electron-rich diene.

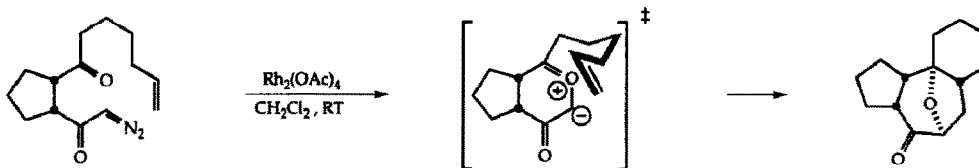


Tetrahedron Letters, 1994, 35, 8307

A CARBONYL-YLIDE APPROACH TO THE TIGLIANE DITERPENESMark C. McMills,^{*1} Linghang Zhuang,¹ Dennis L. Wright,¹ and William Watt²

1) Department of Chemistry, Ohio University, Athens, OH 45701

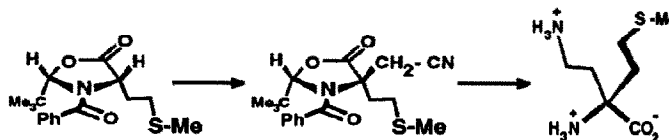
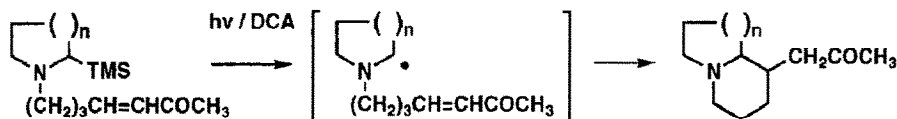
2) The Upjohn Company, Physical and Analytical Chemistry, 7255-209-1, Kalamazoo, MI 49001

Tetrahedron Letters, 1994, 35, 8311*A simple approach to the tigliane diterpenes utilizing a metalcarbenoid generated carbonyl-ylide for [3+2] cycloaddition is reported.***PROGRESS TOWARD A NOVEL C-TERMINAL HELIX CAPPING****PRINCIPLE: SYNTHESIS AND PROPERTIES OF (S)- α -(2-AMINOETHYL)****METHIONINE, D. S. Kemp* and Eloise C. Young, Room 18-582,**

Department of Chemistry M.I.T, Cambridge, MA 02139 USA

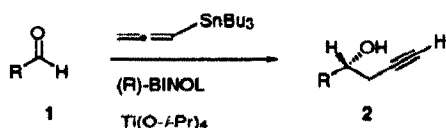
Tetrahedron Letters, 1994, 35, 8315

The title compound has been synthesized and incorporated into simple peptides. Aspects of its neighboring-group chemistry are reported.

**Indolizidine and Quinolizidine Ring Formation in the SET-Photochemistry of α -Silylamines.** S. E. Hoegy and P. S. Mariano, Department of Chemistry and Biochemistry, University of Maryland, College Park, Maryland, 20742, USA*Tetrahedron Letters*, 1994, 35, 8319The scope and limitations of indolizidine and quinolizidine ring forming, SET-induced, α -amino radical cyclization reactions were explored.**Asymmetric Synthesis of Homopropargylic Alcohols From Aldehydes and Allenyltri-*n*-butylstannane**

Gary E. Keck* Dhileepkumar Krishnamurthy, and Xi Chen

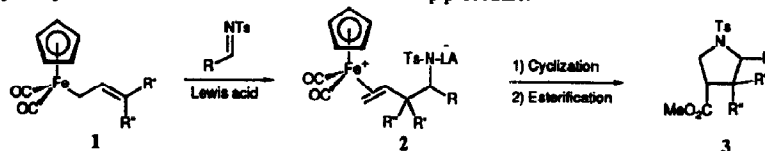
Department of Chemistry, University of Utah, Salt Lake City, Utah, 84112

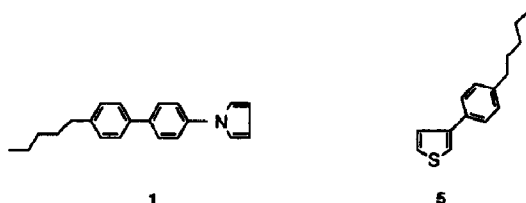
Tetrahedron Letters, 1994, 35, 8323

82 to >99% ee (five examples)

ALLYLATION AND [3+2]-CYCLOADDITION REACTIONS OF IMINES WITH ALLYL(CYCLOPENTADIENYL)IRON(II) DICARBONYL COMPLEXES.

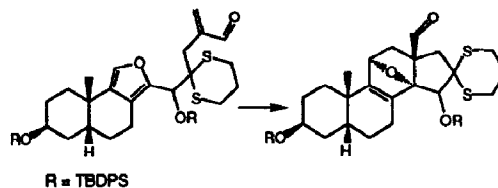
Ti Chen, Songchun Jiang, and Edward Turos*, Department of Chemistry, State University of New York at Buffalo, Buffalo, NY 14260

 Allyliron(II) complexes **1** add to *N*-tosylimines in the presence of a Lewis acid to give either iron-olefin complexes **2** or pyrrolidines **3**, depending on the quantity and nature of the Lewis acid and the work-up procedure.

SYNTHESIS AND ELECTROCHEMISTRY OF A LIQUID CRYSTALLINE PYRROLE AND A STRUCTURALLY RELATED THIOPHENE. Dan Melamed, Colin Nuckols and Marye Anne Fox*, Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, TX 78712 USA

 Contrasting phase behavior and activity toward electropolymerization are observed with 4-pyrrole-4'-pentylbiphenyl **1** and 3-(4-pentylphenyl)thiophene **5**.

Synthetic Studies Towards Batrachotoxin 1. A Furan-based Intramolecular Diels-Alder Route To Construct The A-D Ring System

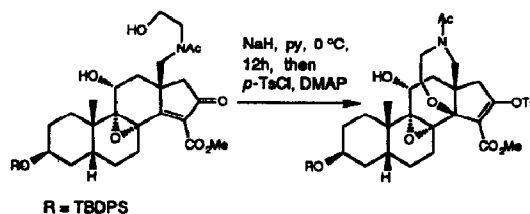
 Timothy J. Grinsteiner and Yoshito Kishi*
 Department of Chemistry, Harvard University
 Cambridge, Massachusetts 02138, U.S.A.

A stereoselective intramolecular Diels-Alder reaction has been developed using annelated furans to produce functionalized steroidal nuclei, which can serve as advanced intermediates in the synthesis of batrachotoxin.


Synthetic Studies Towards Batrachotoxin 2. Formation Of The Oxazepane Ring System Via A Michael Reaction

 Timothy J. Grinsteiner and Yoshito Kishi*
 Department of Chemistry, Harvard University
 Cambridge, Massachusetts 02138, U.S.A.

The oxazepane ring system present in batrachotoxin has been synthesized within the framework of an advanced intermediate via a novel Michael reaction.

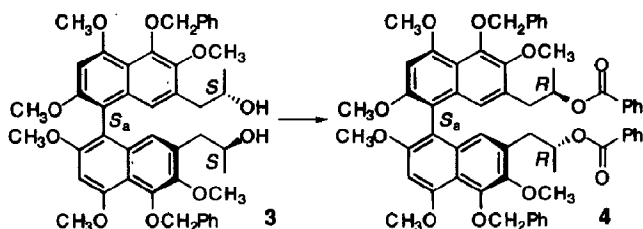


A LOW-TEMPERATURE MITSUNOBU REACTION FOR THE INVERSION OF STERICALLY HINDERED SECONDARY ALCOHOLS.

Tetrahedron Letters, 1994, 35, 8341

Robert S. Coleman* and Eugene B. Grant
Dept. of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208

Mitsunobu inversion of 1,1'-binaphthalenediol 3 to 4 with benzoic acid depended upon quantitative formation of the bis-oxyphosphonium salt of 3 at -23 °C, prior to displacement at 25 °C.



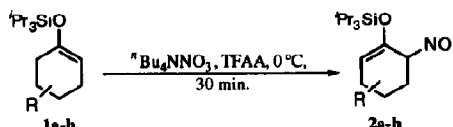
Regioselective Preparation of α -Nitro Cyclohexyl Trisopropylsilyl Enol Ethers

Tetrahedron Letters, 1994, 35, 8345

P. Andrew Evans* and James M. Longmire

Lamont du Pont Laboratory, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716.

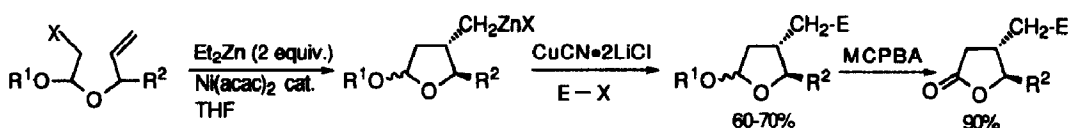
Treatment of the trisopropylsilyl enol ethers 1a-h with tetra-*n*-butyl ammonium nitrate and trifluoroacetic anhydride at 0 °C afforded the α -nitro trisopropylsilyl enol ethers 2a-h in 40-72% yield.



Stereoselective Synthesis of Substituted Tetrahydrofurans and Butyrolactones by a New Nickel Catalyzed Carbozincation.

Tetrahedron Letters, 1994, 35, 8349

Andrea Vaupel and Paul Knochel*, Fachbereich Chemie der Philipps-Universität Marburg
Hans-Meerwein-Straße, D - 35032 Marburg, Germany.

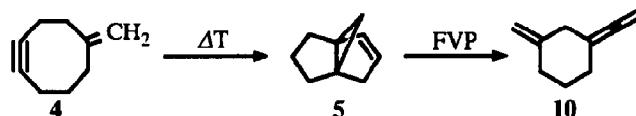


GENERATION AND TRANSFORMATION OF THE [3.3.1]PROPELLANE SKELETON BY THERMAL REARRANGEMENTS

Tetrahedron Letters, 1994, 35, 8353

Guido Krämer, Heinz Kolshorn and Herbert Meier*, Institute of Organic Chemistry, University of Mainz
J.J.-Becher-Weg 18-22, D-55099 Mainz, Germany

A sequence of thermal rearrangements leads from the alkyne 4 via the tricyclic compound 5 to the allene 10.

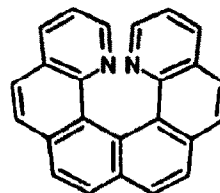


Synthesis, Structure and Basicity of 1,16-Diaza[6]helicene

Heinz A. Staab, Michael Diehm and Claus Krieger
Max-Planck-Institut für medizinische Forschung, Abteilung
Organische Chemie, Jahnstraße 29, D-69120 Heidelberg

Tetrahedron Letters, 1994, 35, 8357

Synthesis and X-ray structure analysis of 1,16-Diaza[6]helicene (**3**) are reported. In spite of the short N...N distance, **3** does not show 'proton sponge' properties like high basicity and preferred mono-protonation.

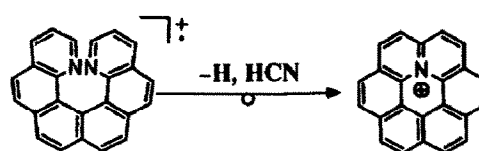


Cyclization of Diaza[6]helicenes to Monoazacoronenes under Electron Impact

Marina Rentzea*, Michael Diehm and Heinz A. Staab,
Max-Planck-Institut für Medizinische Forschung, Abteilung
Organische Chemie, Jahnstraße 29, D-69120 Heidelberg

Tetrahedron Letters, 1994, 35, 8361

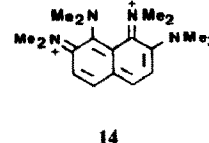
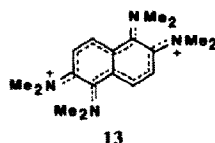
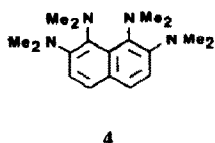
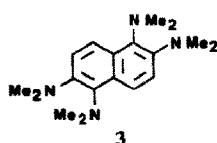
Electron impact (EI)-induced cyclizations of diaza[6]helicenes (**1-3**) to monoazacoronenes were investigated through their mass spectra obtained with a four-sector mass spectrometer.



1,2,5,6- and 1,2,7,8-Tetrakis(dimethylamino)naphthalenes and Their Dications: Syntheses and Properties

Annette Kirsch, Claus Krieger, Heinz A. Staab, and Franz A. Neugebauer*,
Abteilung Organische Chemie, Max-Planck-Institut für medizinische Forschung, Jahnstr. 29, D-69120 Heidelberg, Germany.
Syntheses and properties of **3**, **4**, **13** and **14**; crystal structure of **13**.

Tetrahedron Letters, 1994, 35, 8365

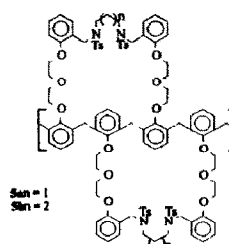


SYNTHESIS OF TWO CALIX[4]ARENES CONSTRAINED TO A 1,3-ALTERNATE CONFORMATION BY DI-AZA-BENZO CROWN ETHER BRIDGING.

Sabine Wenger, Zouhair Asfari and Jacques Vicens*
E.H.I.C.S., URA 405 du C.N.R.S., 1 rue Blaise Pascal,
F-67008, Strasbourg, France.

Tetrahedron Letters, 1994, 35, 8369

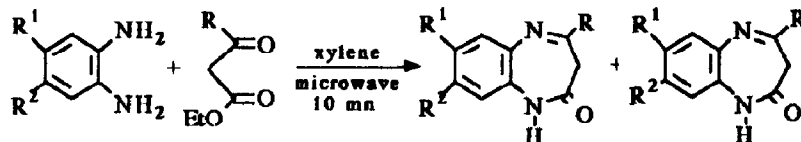
The title compounds **5a**, **b** have been synthesized. Preliminary complexation studies of **5a** with metal cations and ammonium are reported.



AN EASY ROUTE TO SYNTHESIZE 1,5 ARYLODIAZEPIN 2 ONES.

Tetrahedron Letters, 1994, 35, 8373

Khalid Bougrin, A. Kella, Bennani, Souad Fkih Tétouani and Mohamed Soufiaoui*
 Laboratoire de Chimie des Plantes et de Synthèse Organique et Bioorganique Université Mohammed V,
 Faculté des Sciences B.P. 1014 R.P. Rabat, Maroc.



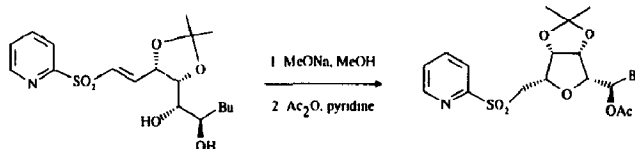
NOVEL APPROACH TO THE SYNTHESIS OF CHIRAL OXACYCLES
 VIA RING CLOSURE OF SUGAR-DERIVED VINYL SULFONES

Tetrahedron Letters, 1994, 35, 8377

Christophe Marot, Patrick Rollin*

Laboratoire de Chimie Bioorganique et Analytique, associé au CNRS, Université d'Orléans, B P 6759, 45067 Orléans Cedex 2, France

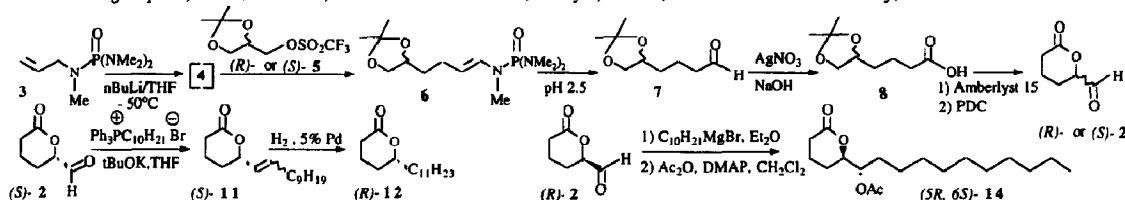
Sugar-derived vinyl sulfones are stereoselectively transformed into chiral polysubstituted oxolans through a Michael-initiated ring closure process.



5-FORMYL- δ -VALEROLACTONE : A USEFUL SYNTHON FOR THE CHIRAL SYNTHESIS OF THE *VESPA ORIENTALIS* PHEROMONE AND THE MOSQUITO OVIPOSITION ATTRACTANT PHEROMONE

Tetrahedron Letters, 1994, 35, 8381

Ph. Coutrot*, C. Grison, C. Bômont, Institut Nancéien de Chimie Moléculaire, Laboratoire de Chimie Organique II, associé au CNRS, Université Henri Poincaré, Nancy 1, BP 239, 54506 Vandoeuvre-les-Nancy, France

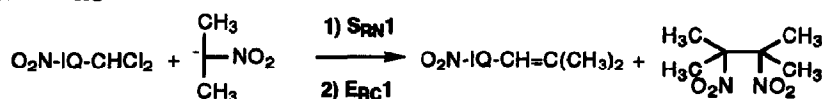


Consecutive $S_{RN}1$ and $E_{RC}1$ Reactions in 5-Nitroisoquinolines.

Tetrahedron Letters, 1994, 35, 8385

Patrice VANELLE*, Pascal RATHELOT, José MALDONADO and Michel P. CROZET
 Laboratoire de Chimie Organique, Faculté de Pharmacie, 27 Bd Jean Moulin, 13385 Marseille Cedex 05, France

The reaction of 1-(dichloromethyl)-5-nitroisoquinoline (O_2N -IQ- $CHCl_2$) by 2-nitropropane anion is shown to proceed by the consecutive $S_{RN}1$ and $E_{RC}1$ mechanisms.

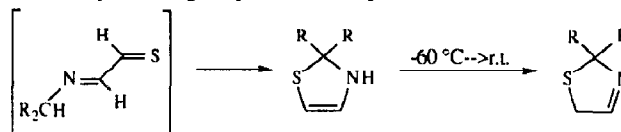


THE REARRANGEMENT OF α -IMINO-THIOALDEHYDES INTO DIHYDRO-1,3-THIAZOLES

Tetrahedron Letters, 1994, 35, 8389

Roger Arnaud, Nadia Pelloux-Léon, Jean-Louis Ripoll and Yannick Vallée*. L.E.D.S.S., Université Joseph Fourier, 38041 Grenoble, France. Laboratoire de Chimie des Composés Thioorganiques, ISMRA, 14050 Caen, France.

When generated under FVT conditions α -imino-thioaldehydes undergo a cyclization to dihydrothiazoles.



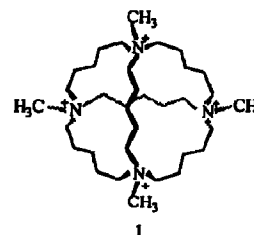
A NOVEL MACROTRICYCLIC RECEPTOR FOR THE INCLUSION OF FLUORIDE ION

Tetrahedron Letters, 1994, 35, 8393

Mohammed A. Hossain and Kazuhiko Ichikawa*

Division of Material Science, Graduate School of Environmental Earth Science, Hokkaido University, Sapporo 060, JAPAN

A novel macrotricyclic receptor **1** has been synthesized and the encapsulated fluoride ion has been studied by the ^{19}F NMR measurements.

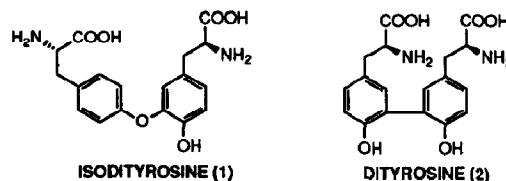


Syntheses of Isodityrosine, Dityrosine and Related Compounds by Phenolic Oxidation of Tyrosine and Phenylglycine Derivatives Using an Electrochemical Method

Tetrahedron Letters, 1994, 35, 8397

S. Nishiyama, M. H. Kim, and S. Yamamura
Dept. of Chemistry, Faculty of Science and Technology,
Keio University, Hiyoshi, Yokohama, Japan

Syntheses of isodityrosine, dityrosine and their phenylglycine congeners have successfully been accomplished.



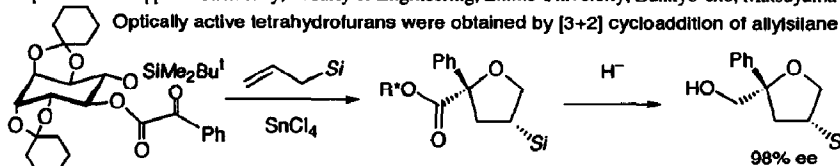
Asymmetric Synthesis of Tetrahydrofurans by Diastereoselective [3+2] Cycloaddition of Allylsilanes with α -Keto Esters Bearing an Optically Active Cyclitol as a Chiral Auxilliary

Tetrahedron Letters, 1994, 35, 8401

Takahiko AKIYAMA,* Takuya YASUSA, Keiichiro ISHIKAWA, and Shoichiro OZAKI*

Department of Applied Chemistry, Faculty of Engineering, Ehime University, Bunkyo-cho, Matsuyama 790, Japan

Optically active tetrahydrofurans were obtained by [3+2] cycloaddition of allylsilane with chiral α -keto ester.

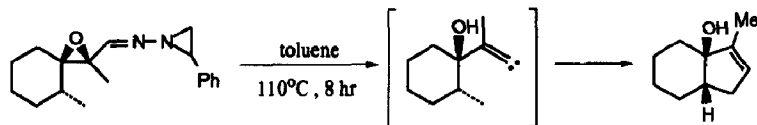


Generation of Alkylidene Carbenes from α,β -Epoxy-N-aziridinyl Imines. A New Route to Cyclopentenols

Sunggak Kim* and Chang Mook Cho

Department of Chemistry, Korea Advanced Institute of Science and Technology, Taejon 305-701, Korea

Tetrahedron Letters, 1994, 35, 8405

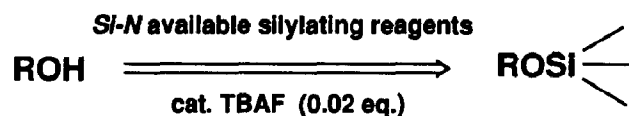


Mild, Effective and Selective Methods for the Silylation of Alcohols Using Silazanes Promoted by Catalytic Tetrabutylammonium Fluoride

Yoo TANABE*, Masanari MURAKAMI, Kazuto KITAICHI, and Yoshihiro YOSHIDA

School of Science, Kwansai Gakuin University, 1-1-155 Uegahara, Nishinomiya, Hyogo 662, Japan

Tetrahedron Letters, 1994, 35, 8409

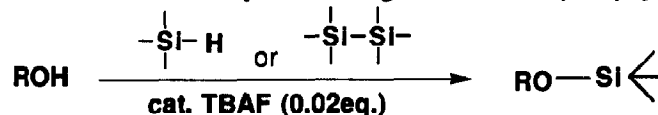


Mild and Practical Method for the Silylation of Alcohols Using Hydrosilanes and Disilanes Promoted by TBAF Catalyst

Yoo TANABE,* Hitomi OKUMURA, Akihiro MAEDA, and Masanari MURAKAMI

School of Science, Kwansai Gakuin University, 1-1-155 Uegahara, Nishinomiya, Hyogo 662, Japan

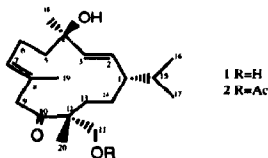
Tetrahedron Letters, 1994, 35, 8413

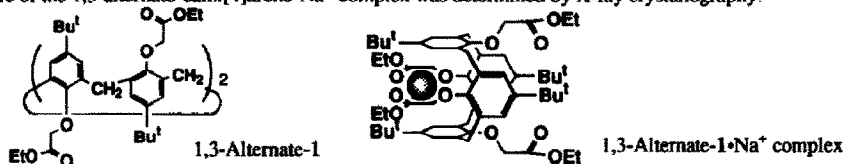


NOVEL CEMBRANOIDS WITH A 13-MEMBERED CARBOCYCLIC SKELETON FROM A SOFT CORAL, *SARCOPHYTON*

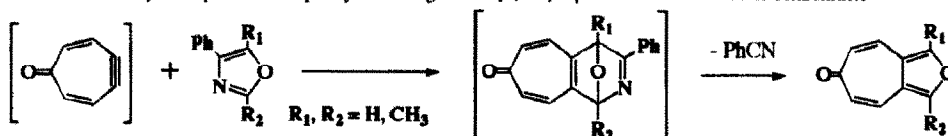
SPECIES Tetsuo Iwagawa,^{a*} Yoichiro Shibata,^a Hiroaki Okamura,^a Munehiro Nakatani,^{a*} and Motoo Shiro^{b*}, ^aFaculty of Science, Department of chemistry, Kagoshima University, 1-21-35 Korimoto Kagoshima 890, Japan. ^bRigaku Corporation 3-9-12 Matsubara-cho Akishima-shi, Tokyo 196 Japan.

Tetrahedron Letters, 1994, 35, 8415

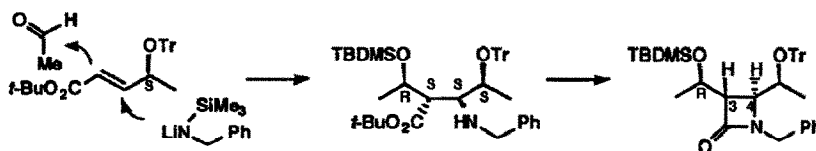
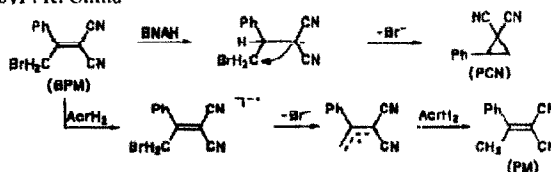


X-Ray Crystallographic Studies of a 1,3-Alternate-calix[4]arene-Na⁺ Complex.Is the cation- π Interaction Operative between the Benzene Rings and Na⁺?Atsushi Ikeda, Hirohisa Tsuzuki[†] and Seiji Shinkai^{*}, Department of Chemical Science & Technology, Faculty of Engineering, Kyushu University, Fukuoka 812, Japan. [†]Center of Advanced Instrumental Analysis, Kyushu University, Kasuga, Fukuoka 816, JapanThe structure of the 1,3-alternate-calix[4]arene-Na⁺ complex was determined by X-ray crystallography.**THE REACTIONS OF 4,5-DEHYDROTROPONE WITH 4-PHENYLOXAZOLS.**Tomoo Nakazawa,^{*} Mariko Ishihara, Mamoru Jinguji, Ryuta Miyatake,[†] Yoshikazu Sugihara,[†]and Ichiro Murata,[†] Department of Chemistry, Yamanashi Medical University, Tamaho, Nakakoma, Yamanashi 409-38, Japan.[†]Department of Chemistry, Faculty of Science, Osaka University, Toyonaka, Osaka 560, Japan.

Reactions of 4,5-dehydrotropone with 4-phenyloxazols give furo[3,4-d]tropones with facile loss of benzonitrile

**HIGHLY STEREOCONTROLLED AND CONCISE ASYMMETRIC SYNTHESIS OF THE β -LACTAM FRAMEWORK VIA A TCC METHOD**Naoki Asao[†], Takashi Shimada, Naofumi Tsukada, and Yoshinori Yamamoto^{*}

Department of Chemistry, Faculty of Science, Tohoku University, Sendai 980-77, Japan

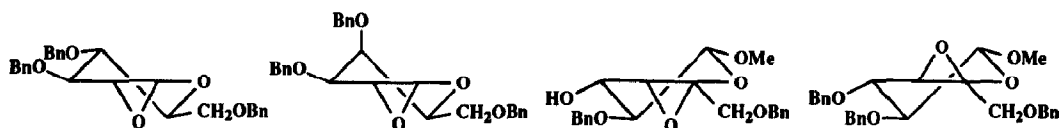
[†]Institute for Molecular Science, Myodaiji, Okazaki 444.**MECHANISTIC STUDIES ON THE REDUCTION OF 2-BROMO-1-PHENYLETHYLIDENEMALONONITRILE BY NADH MODELS BNAH AND AcrH₂**You-Cheng Liu^{*}, Bin Li, Qing-Xiang Guo National Laboratory of Applied Organic Chemistry and Department of Chemistry, Lanzhou University, Lanzhou 730000, P. R. ChinaReduction of BPM by coenzyme models BNAH and AcrH₂ to give PCN and PM, respectively.

A SIMPLE AND HIGHLY DIASTEREOSELECTIVE PREPARATION OF GLYCAL EPOXIDES USING THE MCPBA-KF COMPLEX

Tetrahedron Letters, 1994, 35, 8433

Giuseppe Bellucci, Giorgio Catelani, Cinzia Chiappe, Felicia D'Andrea, - Dipartimento di Chimica Bioorganica, University of Pisa (Italy).

Epoxidation of glycals with MCPBA-KF gives the corresponding epoxides in high yields and with high diastereoselectivity.

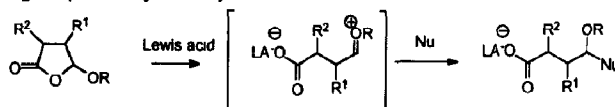


SYNTHESIS OF γ -METHOXY CARBOXYLIC ACIDS VIA NUCLEOPHILIC ADDITIONS TO OXYCARBENIUM IONS DERIVED FROM 5-METHOXY-2(3H)-DIHYDROFURANONES.

Tetrahedron Letters, 1994, 35, 8437

Arjan van Oeveren, Ben L. Feringa*, Department of Organic and Molecular Inorganic Chemistry, Groningen Center for Catalysis and Synthesis, University of Groningen, Nijenborgh 4, 9747 AG, Groningen, The Netherlands.

5-methoxy-2(3H)-dihydrofuranones were treated with $TiCl_4$ and addition of silylated nucleophiles to the resulting oxycarbenium ions gave γ -methoxy carboxylic acids.

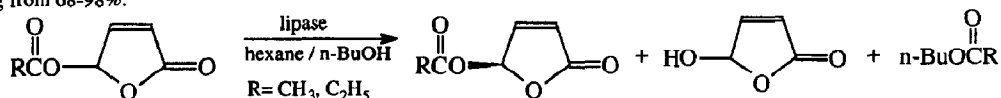


LIPASE CATALYZED ENANTIOSELECTIVE TRANSESTERIFICATION OF 5-ACYLOXY-2(5H)-FURANONES.

Tetrahedron Letters, 1994, 35, 8441

Hanneke van der Deen, Robert P. Hof, Arjan van Oeveren, Ben L. Feringa* and Richard M. Kellogg*, Department of Organic and Molecular Inorganic Chemistry, Groningen Center of Catalysis and Synthesis, University of Groningen, Nijenborgh 4, 9747 AG Groningen, The Netherlands.

Several lipases in organic solvents catalyse the enantioselective transesterification of 5-acyloxy-2(5H)-furanones with e.e.'s ranging from 68-98%.



SmI_2 -MEDIATED CYCLIZATION OF VINYL RADICALS

Tetrahedron Letters, 1994, 35, 8445

Laura Capella and Pier Carlo Montecchi

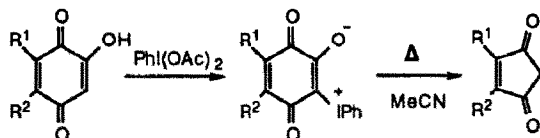
Dipartimento di Chimica Organica 'A. Mangini', Viale Risorgimento 4, I-40136 Bologna, Italy

SmI_2 -mediated vinyl radicals give stereoselective 5- and 6-exo cyclization on the intramolecular triple bond.



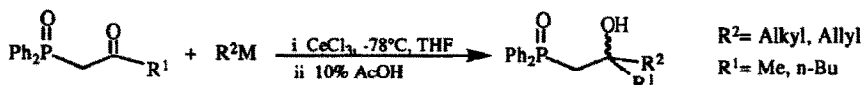
THE CHEMISTRY OF 2-OXIDO-3-PHENYLIODONIO-1,4-BENZOQUINONES: TRANSFORMATION TO 2-CYCLOPENTENE-1,4-DIONES AND CYCLOADDITIONS.

Ioannis Papoutsis, Spyros Spyroudis and Anastasios Varvoglis*, Laboratory of Organic Chemistry, Chemistry Department, University of Thessaloniki, Thessaloniki 54006, GREECE



CERIUM CHLORIDE (III) PROMOTED NUCLEOPHILIC ADDITION OF ORGANOLITHIUM REAGENTS TO α -DIPHENYLPHOSPHINOYL KETONES. AN EFFICIENT METHOD FOR THE SYNTHESIS OF HORNER-WITTIG INTERMEDIATES.

Giuseppe Bartoli^{a*}, Letizia Sambri^a, Enrico Marcantoni^b, Marino Petri^b
^aDipartimento di Chimica Organica "A. Mangini", viale Risorgimento 4, Bologna, Italy. ^bDipartimento Scienze Chimiche, via S. Agostino 1, Camerino, Italy.

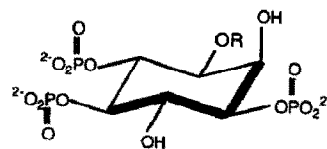


Reaction of α -diphenylphosphinoyl ketones with organolithium reagents, in the presence of anhydrous CeCl_3 in THF at -78°C , affords β -hydroxyalkylphosphine oxides in fair to good yields.

SYNTHESIS OF (\pm)-3-O-ALKYLATED MYO-INOSITOL 1,4,5-TRISPHOSPHATE ANALOGUES AS POTENT RECEPTOR LIGANDS AND ENZYME INHIBITORS

Changsheng Liu and Barry V L Potter*
 Department of Medicinal Chemistry, School of Pharmacy and Pharmacology, University of Bath, Claverton Down, Bath BA2 7AY, UK.

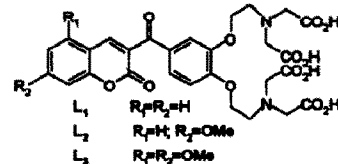
3-O-Alkylated inositol 1,4,5-trisphosphate analogues have been synthesized as novel probes of second messenger binding and metabolism.



SYNTHESIS AND LUMINESCENCE PROPERTIES OF EUROPIUM(III) AND TERBIUM(III) COMPLEXES OF AMINOPOLYCARBOXYLIC ACID LIGANDS CONTAINING 3-AROYLCOUMARIN.

Juan Carlos Rodríguez-Ubis*, María Teresa Alonso and Ernesto Brunet*, Departamento de Química Orgánica, C-1. Facultad de Ciencias. Universidad Autónoma de Madrid, 28049-Madrid, Spain. Fax 34 1 397 3966

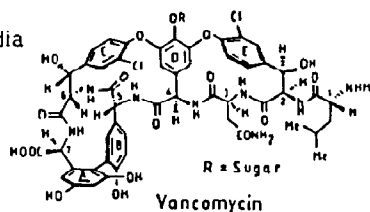
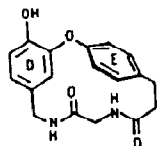
Three differently substituted 3-aryl coumarins, L_{1-3} , with tetracarboxylic chelating subunits anchored at the 3-benzoyl group were synthesized, and their complexes with Eu^{3+} and Tb^{3+} formed as new potential bioaffinity-assay markers. Some spectral and luminescence properties of the complexes in water and methanol are reported.



STUDIES DIRECTED TOWARDS THE TOTAL SYNTHESIS OF VANCOMYCIN : FORMATION OF BIPHENYL ETHER BY MACROCYCLISATION

Tetrahedron Letters, 1994, 35, 8465

A V Rama Rao*, K Laxma Reddy and A Srinivasa Rao
Indian Institute of Chemical Technology, Hyderabad 500 007, India

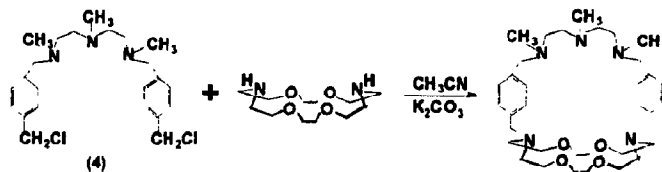


A NOVEL SYNTHETIC PATHWAY FOR PARACYCLOPHANE

Tetrahedron Letters, 1994, 35, 8469

RECEPTORS. Carla Bazzicalupi, Andrea Bencini, Antonio Bianchi, Vieri Fusi, Claudia Giorgi, Piero Paoletti and Barbara Valtancoli. Department of Chemistry, University of Florence, Florence, ITALY. Mauro Micheloni, Institute of Chemical Sciences, University of Urbino, Urbino, ITALY.

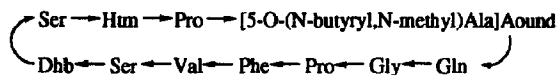
(4) is a versatile building block for the assembly of macrocyclic or macropolycyclic structures.



SCHIZOTRIN A; A NOVEL ANTIMICROBIAL CYCLIC PEPTIDE FROM A CYANOBACTERIUM. Inna Pergament and Shmuel Carmeli,*
School of Chemistry, Tel Aviv University, Tel Aviv 69978, ISRAEL.

Tetrahedron Letters, 1994, 35, 8473

A novel antimicrobial cyclic undecapeptide, schizotrin A, is the major active metabolite in the cultured cyanobacterium *Schizotrix* sp.



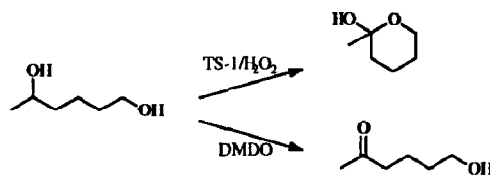
SELECTIVE OXIDATION OF DIOLS BY H₂O₂/TS-1 SYSTEM AND BY DMDO.

Tetrahedron Letters, 1994, 35, 8477

Paolo Bovicelli, Paolo Lupatelli, Anna Sanetti
Centro C.N.R. di Studio per la Chimica delle Sostanze Organiche Naturali, Dipartimento di Chimica, Università "La Sapienza", P.le A. Moro, 5 - 00185 Roma, Italy.

Enrico Mincione D.A.B.A.C., Università della Tuscia, V. S. Camillo De Lellis, 01100 Viterbo, Italy.

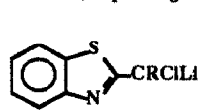
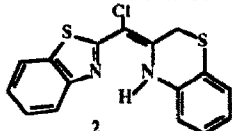
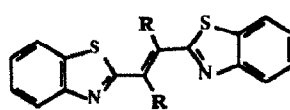
Selective oxidations of secondary hydroxyl groups vs. primary ones in 1,n-diols by TS-1/H₂O₂ catalytic system and by dimethyldioxirane, new reagents with minimal environmental impact, are reported.



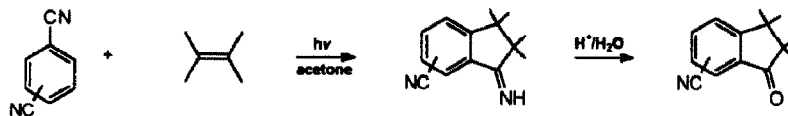
SELF-CONDENSATION OF BENZOTHAZOLYL-CHLOROMETHYLLITHIUMS.Saverio Florio,^a Vito Capriati,^a Maria Cristina Solimini^a and Luigino Troisi^b.

a) Dipartimento Farmaco-Chimico, Università di Bari, Via E. Orabona, 4, 70125 Bari, Italy.

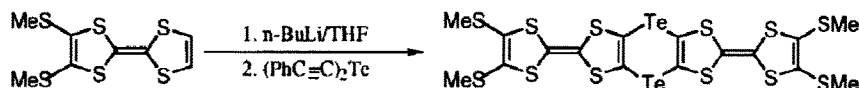
b) Dipartimento di Biologia, Università di Lecce, Via Monteroni, 73100, Lecce, Italy.

Benzothiazolylchloromethylithiums **1** behave as halocarbonoids undergoing a different type of self-condensation to **2** or **3**, depending on the substitution at the α -carbon.**1**: R = H, Cl**2****3**: R = Cl, n-Bu**THE PHOTOCHEMICAL REACTION BETWEEN DICYANOBENZENES AND 2,3-DIMETHYL-2-BUTENE IN ACETONE SOLUTION: A POTENTIAL ROUTE TO SUBSTITUTED 2,3-DIHYDRO-1H-INDEN-1-ONES.**Robert M. Borg,^{*} Mariella A. Berry, and Dino Mangion, Department of Chemistry, University of Malta, Msida MSD 06, Malta.

Irradiation of 1,3- or 1,4-dicyanobenzene in the presence of 2,3-dimethyl-2-butene, in acetone solution, affords cyano-substituted 2,3-dihydro-2,2,3,3-tetramethyl-1H-inden-1-ones in good yields.

**A UNIQUE MOLECULAR DONOR CONTAINING TWO TETRATHIAFULVALENE (TTF) UNITS FUSED TO 1,4-DITELLURIN: SYNTHESIS, X-RAY STRUCTURE AND CYCLIC VOLTAMMETRY.**Changsheng Wang, Arkady Ellern, James Y. Becker^{*}, and Joel Bernstein^{*}, Department of Chemistry, Ben-Gurion University of the Negev, Beer-Sheva 84105, Israel

A dimeric TTF system best described by two TTF units fused to 1,4-ditellurin linkage has been synthesized in one pot by the following reaction and the structure has been characterized by X-ray diffraction. Its cyclic voltammogram displays two reversible two-electron redox waves.

**ASYMMETRIC SYNTHESIS OF 3S, 4R-DIHYDROXY PYRROLIDINES BY REGIO- AND STEREOSELECTIVE HYDROXYLATION OF 4-OXOPROLINE ENOLATE.**M. Jesús Blanco and F. Javier Sardina.^{*} Departamento de Química Orgánica, Universidad de Santiago de Compostela, 15706 Santiago de Compostela, SPAIN.

A short, efficient and stereoselective synthesis of enantiomerically pure (2R, 3S, 4R) 3,4-dihydroxy-2-hydroxymethylpyrrolidine, a galactosidase inhibitor, from 4-hydroxy-L-proline is presented (6 steps, 57% overall yield).

