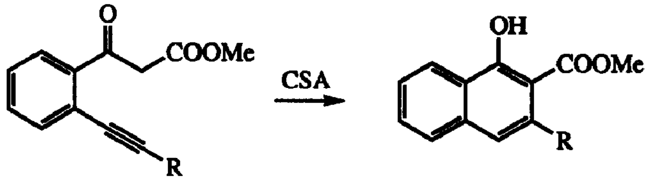
GRAPHICAL ABSTRACTS

A USEFUL BENZANNULATION REACTION

Tetrahedron Letters, **1994**, *35*, 1127

Marco A. Ciufolini and Trent J. Weiss
Department of Chemistry, Rice University, P.O. Box 1892, Houston, Texas 77251, U.S.A.

2-(1-Alkynyl)-Benzoylacetates undergo cycloaromatization in good yield upon treatment with CSA in refluxing chloroform

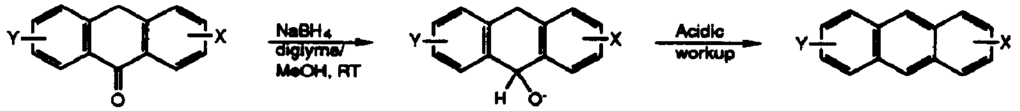


AN EFFICIENT REDUCTION OF ANTHRONES TO ANTHRACENES.

Tetrahedron Letters, **1994**, *35*, 1131

Donald J. Marquardt and Frankie A. McCormick, Department of Chemistry, Tulane University, New Orleans, LA 70118 USA

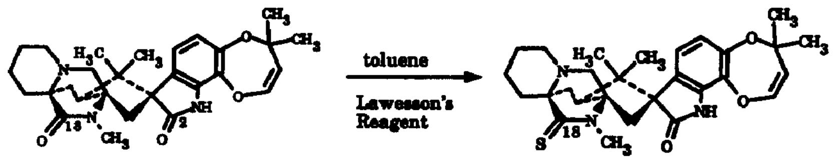
Reduction of anthrones with $NaBH_4$ in diglyme/methanol produces anthracenes in essentially quantitative yield. Use of the mixed solvent system is crucial to the success of the reaction.



Chemical Modification Of Marcfortine A.1. 18-Thiomarcfortine A and Absolute Stereochemistry

Tetrahedron Letters, **1994**, *35*, 1135

Byung H. Lee* and Fusen Han, The Upjohn Laboratories, The Upjohn Company, Kalamazoo, MI 49001 USA



Marcfortine A (1)

U - 94367 (3)

HYDROXY-DIRECTED HYDROALUMINATIONS: A STEREO-SELECTIVE APPROACH TO CYCLOALKANOLS FROM β-ARYL ENONES.

Tetrahedron Letters, **1994**, *35*, 1137

Kevin Koch*, and Jacqueline Smitrovich, Pfizer Central Research, Groton, CT 06340 USA

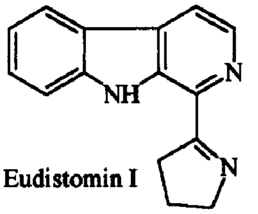
Various aryl substituted enones are reduced using lithium aluminum hydride to afford *trans* -substituted cycloalkanols in a stereoselective manner.

Tetrahedron Letters, **1994**, *35*, 1141

Biosynthetic Studies of the Eudistomins in the Tunicate *Eudistoma olivaceum*.

Guo Q. Shen and Bill J. Baker,* Department of Chemistry, Florida Institute of Technology, 150 W. University Blvd., Melbourne, Florida 32901

The origin of eudistomin I in the Floridian tunicate *Eudistoma olivaceum* has been investigated by *in vivo* techniques. Tryptophan and proline are the primary precursors to this antibiotic agent, while trypamine serves as an intermediate.



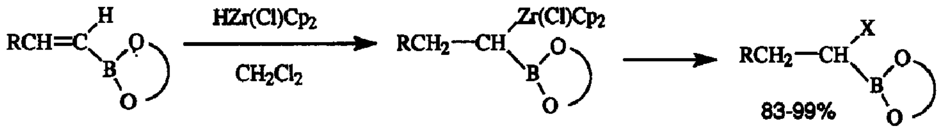
Eudistomin I

Tetrahedron Letters, **1994**, *35*, **1145**

Reactions of N-Halosuccinimides with 1,1-Bimetallics Based on Zirconocene and Boronic Esters: A New Synthesis of α-Haloboronic Esters

Bin Zheng and Morris Srebnik*, Department of Chemistry, University of Toledo, Ohio 43606, USA

α-Haloboronic esters were prepared by selective cleavage of 1,1-bimetallics based on zirconocene and boronic esters with N-halosuccinimides in high yields.

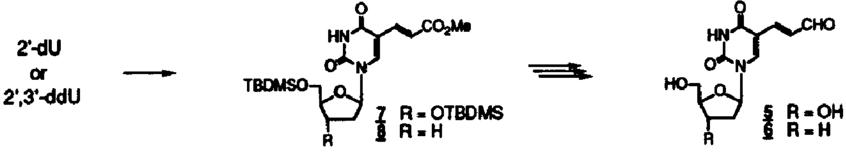


Tetrahedron Letters, **1994**, *35*, 1149

(*E*)-5-(3-OXOPROPEN-1-YL)-2'-DEOXYURIDINE AND (*E*)-5-(3-OXOPROPEN-1-YL)-2',3'-DIDEOXYURIDINE; NEW ANTIVIRAL AGENTS: SYNTHESES AND BIOLOGICAL ACTIVITY.

Young-Moon Cho and Francis Johnson*, Department of Chemistry and Department of Pharmacology, The State University of New York at Stony Brook, Stony Brook, New York, 11794-3400

The syntheses of the 5-(3-oxopropen-1-yl) derivatives of dU (5) and ddU (6) and their biological activity are reported.

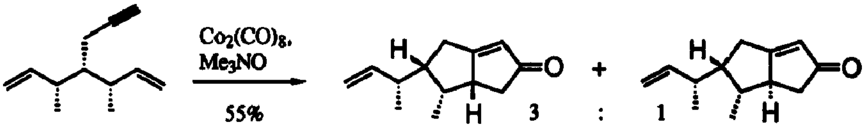


Tetrahedron Letters, **1994**, *35*, 1153

FIRST EXAMPLE OF REVERSAL OF NORMAL STEREOSELECTIVITY IN THE INTRAMOLECULAR PAUSON-KHAND REACTION.

Joseph A. Casalnuovo, Robert W. Scott, Eric A. Harwood, and Neil E. Schore,* Department of Chemistry, University of California, Davis, CA 95616 USA

The normal Pauson-Khand selectivity for allylic enyne substituents to assume *exo* orientations upon cyclization to bicyclo[3.3.0]octenones may be reduced or reversed by appropriate substitution.



Both ring substituents occupy *endo* positions in major product

Tetrahedron Letters, **1994**, *35*, 1157

Highly Efficient Nucleophilic Addition of Alkyl Grignard Reagents to 17-Ketosteroids in the Presence of Cerium(III) Chloride: Synthesis of 17α-Propyl-17β-Hydroxy-4-Androsten-3-one, An Androgen Receptor Antagonist

Xun Li, Shankar M. Singh* and Fernand Labrie,* Medicinal Chemistry Division, Laboratory of Molecular Endocrinology, CHUL Research Center, Québec City, Québec G1V 4G2, Canada

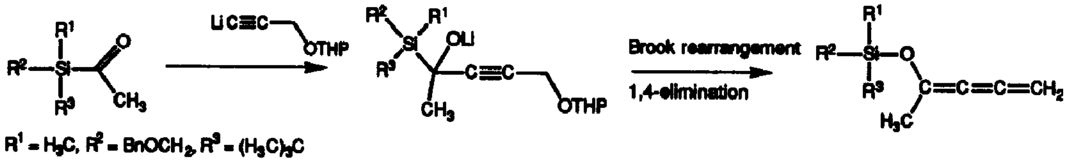
The addition of alkyl Grignard reagents to 17-ketosteroids in the presence of Ce(III)Cl$_3$ gave the addition products in excellent yields.

Tetrahedron Letters, **1994**, *35*, 1161

SYNTHESIS OF 4-{(BENZYLOXYMETHYL)(TERT.-BUTYL)METHYLSILYLOXY}-1,2,3-PENTATRIENE VIA BROOK REARRANGEMENT

Stefan Bienz*, Valentin Enev, and Priska Huber, Org.-chem. Institut der Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich

The reaction of 1-lithium-3-tetrahydropyranyloxy-1-propyne with {(benzyloxymethyl)(*tert.*-butyl)methylsilyl} methyl ketone gave *via* α-silylated propargylic alcoholate anion in a succession of Brook rearrangement and 1,4-elimination the title compound.



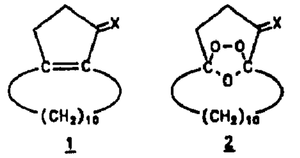
R^1 = H$_3$C, R^2 = BnOCH$_2$, R^3 = (H$_3$C)$_3$C

Tetrahedron Letters, **1994**, *35*, 1163

OZONIDE FORMATION BY TRANSANNULAR CYCLOADDITION BETWEEN A CARBONYL OXIDE AND A CARBONYL GROUP.

Karl Griesbaum* and Volker Ball, Engler-Bunte-Institut, Bereich Petrochemie, Universität Karlsruhe (TH), 76128 Karlsruhe, Germany

Reactions of ozone with the bicyclic olefins 1a and 1b gave the tricyclic ozonides 2a and 2b, respectively, and reaction of 2a with CH$_3$ONH$_2$ gave also 2b.



1 2

a: X=O

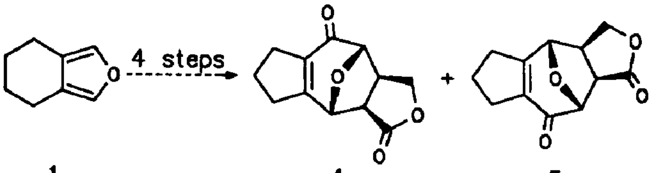
b: X=NOCH$_3$

Tetrahedron Letters, **1994**, *35*, 1165

A FACILE APPROACH TO 4,9-EPOXY-OCTAHYDROAZULENE LACTONES

Werner Tochtermann*, Stefan Bruhn
und Christian Wolff,
Institut für Organische Chemie der Universität,
Olshausenstr. 40, D-24098 Kiel, FRG

The synthesis of the title compounds 4 and 5 is described.



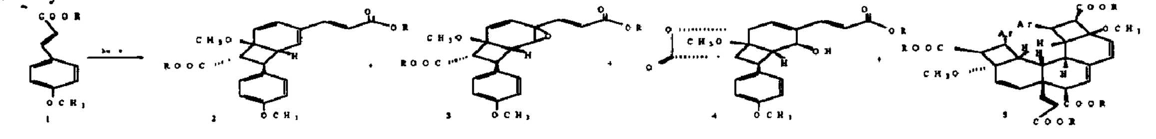
1 4 5

Tetrahedron Letters, **1994**, *35*, 1169

PHOTOCHEMICAL REACTION PRODUCTS OF 4-METHOXY-CINNAMIC ACID-3'-METHYLBUTYL ESTER

A.Schrader,*
Creachem GmbH, P.O. Box 1143, D-37591 Holzminden, Germany; J.Jakupovic, Institute for Organic Chemistry at the Technical University of Berlin, Straße des 17. Juni 135, D-10785 Berlin, Germany; W.Baltes, Institute for Food Chemistry at the Technical University of Berlin, Gustav-Meyer Allee 25, D-13355 Berlin, Germany

UV irradiation of 4-methoxycinnamic acid-3'-methylbutyl ester results in the photoproducts 2-5 which were identifed by NMR after separation by TLC and HPLC.

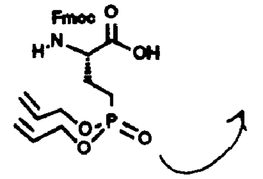


Tetrahedron Letters, **1994**, *35*, 1173

SOLID PHASE SYNTHESIS OF PHOSPHONOSERINE ISOSTERES OF PHOSPHOSERINE PEPTIDES

Gideon Shapiro,* Dieter Buechler, Albert Enz and Esteban Pombo-Villar
Preclinical Research, Sandoz Pharma Ltd., CH-4002 Basel, Switzerland

Using the recently synthesized building block L-Fmoc-Abu[PO(OCH$_2$CH=CH$_2$)$_2$], 1, phosphonopeptide isosteres of serine phosphopeptides, 2, are accessible by Fmoc solid phase synthesis.



1

...........A-B-C-Abu(P)-D-E-F.........

2

Tetrahedron Letters, **1994**, *35*, 1177

PREPARATION OF ALKYLZINC BROMIDES USING A NEW Mn/Cu CATALYZED BROMINE-ZINC EXCHANGE REACTION.

Ingo Klement[a], Khi Chau[b], Gérard Cahiez[b,*] and Paul Knochel[a,*]
[a] Fachbereich Chemie der Philipps-Universität Marburg, Hans-Meerwein-Straße, D - 35043 Marburg, Germany
[b] Laboratoire de Chimie des Organo-éléments, Université Pierre et Marie Curie, 4, Place Jussieu, F - 75252 Paris Cédex 05, France

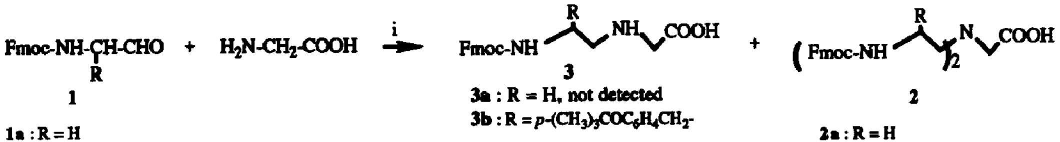
$$\text{FG-RCH}_2\text{Br} \quad + \quad \text{Et}_2\text{Zn} \quad \xrightarrow[\substack{\text{DMPU, 25 °C, 4-10 h} \\ \text{- (H}_3\text{C-CH}_3\text{, H}_2\text{C=CH}_2\text{)}}]{\substack{\text{MnBr}_2 \text{ (5 mol\%)} \\ \text{CuCl (3 mol\%)}}} \quad \text{FG-RCH}_2\text{ZnBr}$$

80-90 %

Tetrahedron Letters, **1994**, *35*, 1181

FORMATION OF BIS (FMOC-AMINO ETHYL)-*N*-GLYCINE DERIVATIVES BY REDUCTIVE AMINATION OF FMOC-AMINO ALDEHYDES WITH NaBH$_3$CN.

Jean-Paul Salvi, Nadia Walchshofer, and Joëlle Paris, Laboratoire de Chimie Thérapeutique, Faculté de Pharmacie, 8 avenue Rockefeller 69373 Lyon cedex 08 France.



3a : R = H, not detected
3b : R = *p*-(CH$_3$)$_3$COC$_6$H$_4$CH$_2$-

1a : R = H
1b : R = *p*-(CH$_3$)$_3$COC$_6$H$_4$CH$_2$-

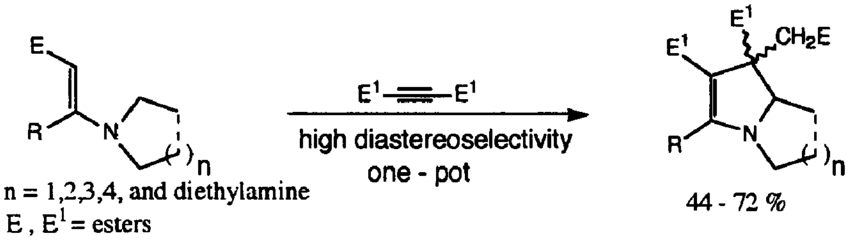
2a : R = H
2b : R = *p*-(CH$_3$)$_3$COC$_6$H$_4$CH$_2$-

i. NaBH$_3$CN; methanol/acetic acid 99/1; r.t.

Tetrahedron Letters, **1994**, *35*, 1185

A-CYCLIZATION OF TERTIARY AMINES. Part 1.

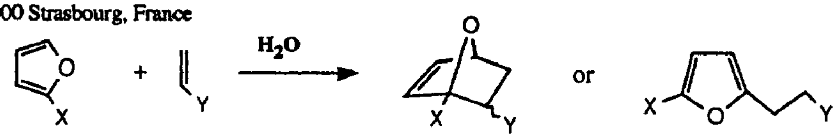
Shuiping Jiang, Zdenek Janousek and Heinz G.Viehe*
Laboratoire de Chimie Organique, Université Catholique de Louvain, B-1348 Louvain-la-Neuve, Belgium.



Tetrahedron Letters, **1994**, *35*, 1189

EFFECT OF WATER ON CHEMO-AND ENDO-SELECTIVITY IN HIGH PRESSURE DIELS-ALDER FURAN REACTIONS. HYDROPHOBIC OR POLAR EFFECTS ?

G. Jenner
Laboratoire de Piézochimie Organique (associé au CNRS), Institut de Chimie, Université Louis Pasteur,
67000 Strasbourg, France



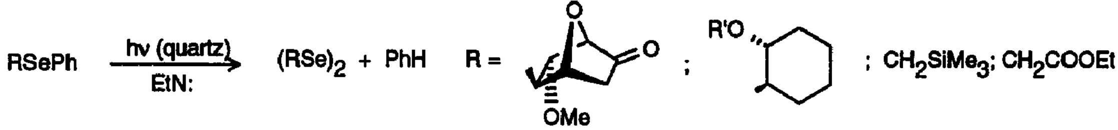
The reactions are less sensitive to pressure in aqueous solution than in organic solvents.When X=H , Y=$COCH_3$, the endo selectivity in water depends on polar and hydrophobic effects.

Tetrahedron Letters, **1994**, *35*, 1193

PHOTOREDUCTIVE CLEAVAGE OF PHENYL-SELENIUM BONDS OF PHENYLSELENOALKANES.

Rafael Ferritto and Pierre Vogel*, *Section de Chimie de l'Université de Lausanne, 2, rue de la Barre, CH-1005 Lausanne, Switzerland*

The following photoreductive reactions are disclosed.

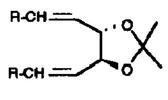


Tetrahedron Letters, **1994**, *35*, 1197

Stereoselective Synthesis of New Functionalized Bisphosphines

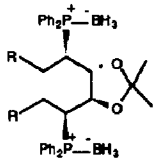
Yann Gourdel, Pascal Pellon, Loïc Toupet§ and Maurice Le Corre*
Laboratoire de Synthèse Organique, Associé au CNRS,Université de Rennes I, Avenue du Général Leclerc, 35042 Rennes, France.
§ Groupe Matière Condensée et Matériaux, associé au CNRS, Université de Rennes I, 35042 Rennes Cedex, France.

The chiral functionalized bisdiphenylphosphine-borane complexes II and III are easily obtained from the diene I.

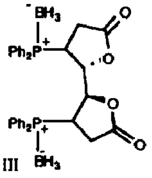


R = MeO_2C, CO_2H
CH_2OH,CN

I



II



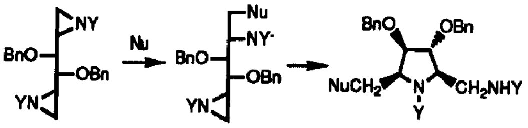
III

Tetrahedron Letters, **1994**, *35*, 1201

2,5-DISUBSTITUTED PYRROLIDINES FROM D-MANNITOL-DERIVED BIS-AZIRIDINES.

Juliette Fitremann, Annie Duréault *, Jean-Claude Depezay, Université René Descartes, Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, associé au CNRS, 45 rue des Saints-Pères, 75270 Paris Cedex 06, France

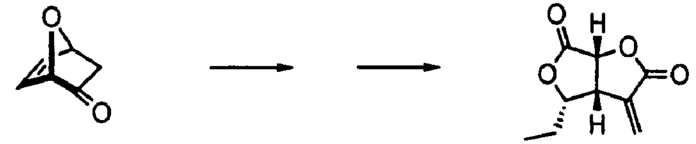
Flexible D-mannitol-derived bis-aziridines are precursors of enantiopure tetrasubstituted pyrrolidines



Tetrahedron Letters, **1994**, *35*, 1205

TOTAL SYNTHESIS OF ETHISOLIDE FROM " NAKED SUGARS "

Janine Cossy*, Jean-Luc Ranaivosata, Véronique Bellosta
Laboratoire de Chimie Organique Associé au CNRS, ESPCI, 10 rue de Vauquelin, 75231 PARIS Cédex 05 - France.



Oxanorbornenone

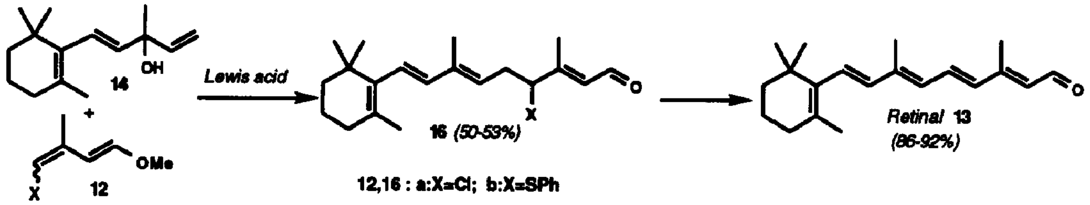
Ethisolide

(±)-Ethisolide was synthetized in 11 steps from Oxanorbornenone with an overall yield of 24%, by using a radical cyclization as the key step.

Tetrahedron Letters, **1994**, *35*, 1209

The OSM (Oxidation State Modification) Concept : Application to a New and Rapid Synthesis of Retinoids

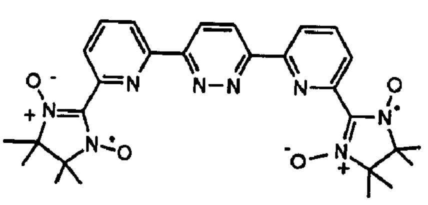
Lucette Duhamel, Pierre Duhamel* and Jean-Erick Ancel. Unité de Recherche Associée au CNRS, Faculté des Sciences et des Techniques de Rouen et IRCOF 76821 Mont Saint Aignan Cédex (France)



Tetrahedron Letters, **1994**, *35*, 1211

SYNTHESIS OF STABLE FREE RADICALS: A NOVEL FAMILY OF OLIGOPYRIDINE BASED NITRONYL-NITROXIDE BIRADICALS

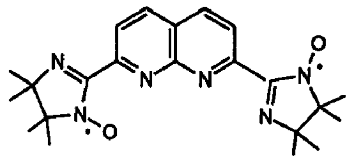
Gilles Ulrich and Raymond Ziessel*
Ecole Européenne des Hautes Etudes des Industries Chimiques de Strasbourg, 1 rue Blaise Pascal, 67008 Strasbourg Cedex, France
Dominique Luneau and Paul Rey
Commissariat à l'Energie Atomique, DRFMC-SESAM, Centre d'Etudes Nucléaires, 38041 Grenoble Cedex, France



Tetrahedron Letters, **1994**, *35*, 1215

SELECTIVE SYNTHESIS OF A NOVEL FAMILY OF OLIGOPYRIDINE BASED IMINO-NITROXIDE BIRADICALS CATALYSED BY SELENIUM DIOXIDE

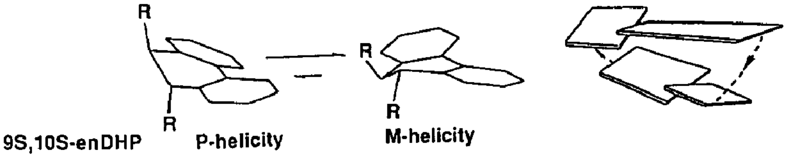
Gilles Ulrich and Raymond Ziessel*
Ecole Européenne des Hautes Etudes des Industries Chimiques de Strasbourg
Institut de Physique et de Chimie des Matériaux de Strasbourg
1, rue Blaise Pascal, 67008 Strasbourg Cedex, France



Tetrahedron Letters, **1994**, *35*, 1219

Induced Fit of Helical Biphenyl Ligands to the Double-Stranded DNA. Takashi Morii,* Akira Murakami and Keisuke Makino, Department of Polymer Science & Engineering, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606 Japan, Shinji Morimoto and Isao Saito, Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University, Japan.

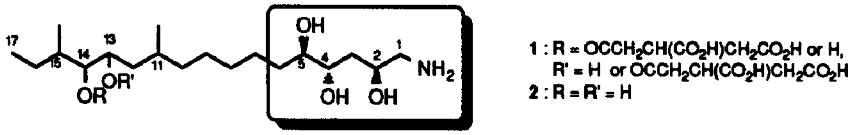
An enantiomeric 2,2'-bridged biphenyl derivative shows change in helicity upon binding to the double-helical DNA.



Tetrahedron Letters, **1994**, *35*, 1223

Absolute Configuration of C(1)-C(5) Fragment of AAL-toxin: Conformationally Rigid Acyclic Aminotriol Moiety. Hideaki Oikawa,*[,a] Isamu Matsuda,[a] Akitami Ichihara,*[,a] and Keisuke Kohmoto,[b] [a]Dept. of Bioscience and Chemistry, Faculty of Agriculture, Hokkaido University, Sapporo 060, [b]Laboratory of Plant Pathology, Faculty of Agriculture, Tottori University, Tottori 680, Japan

The absolute configuration of C(1)-C(5) fragment of AAL-toxin was determined by degradation and synthesis of model aminotriols.



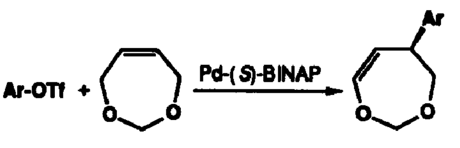
1 : $R = OCCH_2CH(CO_2H)CH_2CO_2H$ or H,
$R' = H$ or $OCCH_2CH(CO_2H)CH_2CO_2H$
2 : $R = R' = H$

Tetrahedron Letters, **1994**, *35*, 1227

Palladium-Catalyzed Asymmetric Arylation of 4,7-Dihydro-1,3-dioxepin. Catalytic Asymmetric Synthesis of γ-Butyrolactone derivatives

Yuichi Koga, Mikiko Sodeoka, and Masakatsu Shibasaki*
Faculty of Pharmaceutical Sciences, University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan

Useful chiral building blocks 2d-h have been synthesized by palladium-catalyzed asymmetric arylation of 1d. The compound 2d has been efficiently converted to β-phenyl-γ-butyrolactone 4. The important role of molecular sieves in this asymmetric Heck reaction has been also clarified.



1d

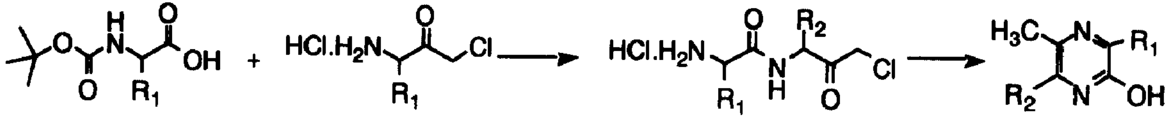
2d-h (60-75% ee)

Tetrahedron Letters, **1994**, *35*, 1231

SIMPLE APPROACH TOWARDS THE SYNTHESIS OF 5-METHYL-2-HYDROXYPYRAZINE DERIVATIVES FROM DIPEPTIDYL CHLOROMETHYL KETONES.

Yoshio Okada*, Hiroaki Taguchi, Yasuhiro Nishiyama and Toshio Yokoi, Faculty of Pharmaceutical Sciences, Kobe-Gakuin University, Nishi-ku, Kobe 651-21, Japan

5-Methyl-2-hydroxypyrazine derivatives were easily synthesized by short reflux of dipeptidyl chloromethyl ketone hydrochlorides in MeOH.

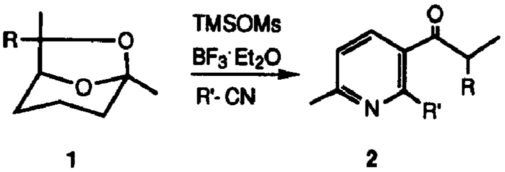


Tetrahedron Letters, **1994**, *35*, 1235

A FACILE ONE-POT SYNTHESIS OF 2,3,6-TRISUBSTITUTED PYRIDINE DERIVATIVES FROM BICYCLIC KETAL BY USING TMSOMs (5 equiv.)-$BF_3 \cdot Et_2O$ (1 equiv.)

Jong-Gab Jun,* Tae Hee Ha, and Dae-Whang Kim+
Department of Chemistry, Hallym University, Chunchon 200-702,
+ KRICT, P.O.Box 9 Daedeog-Danji, Daejeon, Korea

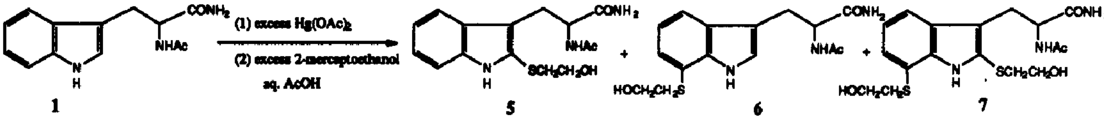
The bicyclic ketal(1) was cleaved and rearranged to pyridine(2) in one-flask with new-mild reagent system.



Tetrahedron Letters, **1994**, *35*, 1239

Side Reaction in Peptide Synthesis: Modification of Tryptophan During Treatment with Mercury(II) Acetate /2-Mercaptoethanol in Aqueous Acetic Acid

Hideki Nishio, Terutoshi Kimura, and Shumpei Sakakibara*
Peptide Institute, Inc., Protein Research Foundation, 4-1-2 Ina, Minoh-shi, Osaka 562, Japan



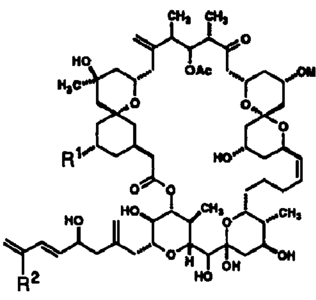
Tetrahedron Letters, **1994**, *35*, 1243

Absolute Stereostructures of Altohyrtin A and Its Congeners, Potent Cytotoxic Macrolides from the Okinawan Marine Sponge *Hyrtios altum*

Motomasa Kobayashi, Shunji Aoki, and Isao Kitagawa
Faculty of Pharmaceutical Sciences, Osaka University,
Yamada-oka 1-6, Suita, Osaka 565, Japan

The absolute stereostructures of altohyrtin A and its congeners (**1** - **4**) have been elucidated. **1** - **4** exhibited extremely potent cytotoxicity against KB cells at IC_{50} 0.01 - 0.3 ng/mL

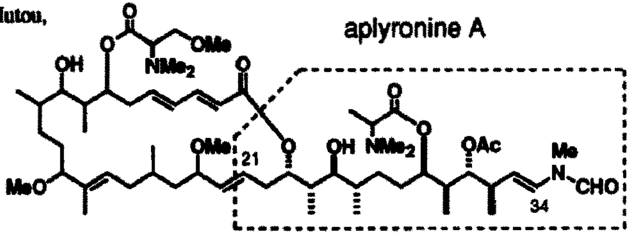
		R^1	R^2
altohyrtin A	(1)	OAc	Cl
altohyrtin B	(2)	OAc	Br
altohyrtin C	(3)	OAc	H
5-desacetyl altohyrtin A	(4)	OH	Cl



Tetrahedron Letters, **1994**, *35*, 1247

SYNTHETIC STUDIES ON APLYRONINE A, A POTENT ANTITUMOR SUBSTANCE OF MARINE ORIGIN: STEREOCONTROLLED SYNTHESIS OF THE C21-C34 SEGMENT

Hideo Kigoshi, Makoto Ojika, Kiyotake Suenaga, Tsuyoshi Mutou,
Junko Hirano, Akira Sakakura, Takeshi Ogawa,
Masanori Nisiwaki, and Kiyoyuki Yamada*
Department of Chemistry, Faculty of Science,
Nagoya University, Chikusa, Nagoya 464, Japan



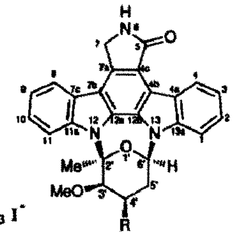
The C21–C34 segment 2 of aplyronine A, a potent antitumor substance of marine origin, was synthesized efficiently.

Tetrahedron Letters, **1994**, *35*, 1251

Absolute Configuration of Staurosporine by X-Ray Analysis

Nobuyuki Funato,[a] Hiroaki Takayanagi,*[a] Yaeko Konda,[a] Yumiko Toda,[a]
Yuzuru Iwai,[b] Satoshi Ōmura,[b] and Yoshihiro Harigaya,*[a]
[a]School of Pharmaceutical Sciences, Kitasato University,
[b]The Kitasato Institute, Minato-ku, Tokyo 108, Japan

The stereostructure of staurosporine (1) was absolutly determined to be 2'*S*, 3'*R*,4'*R*,6'*R*-configuration by X-ray analysis of 4'-N-methylstaurosporine methiodide (2).

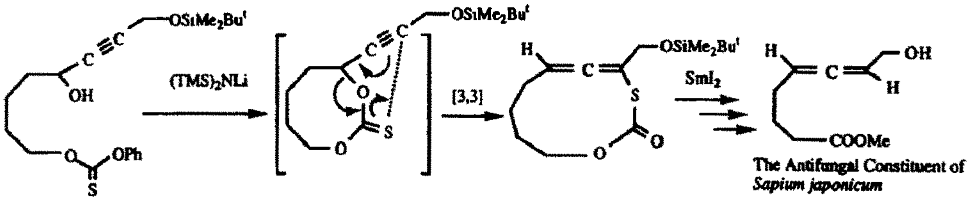


1 R = –NHMe
2 R = $-N^+(Me)_3\ I^-$

Tetrahedron Letters, **1994**, *35*, 1255

Synthesis of Medium-Membered Heterocyclic Allenes by [3,3]Sigmatropic Rearrangement and Its Synthetic Application to the Antifungal Constituent of *Sapium Japonicum*

S. Harusawa, N. Kase, R. Yoneda, and T. Kurihara
Osaka University of Pharmaceutical Sciences, 2-10-65, Kawai, Matsubara, Osaka 580, Japan



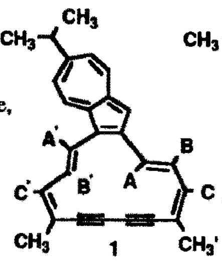
The Antifungal Constituent of *Sapium japonicum*

Tetrahedron Letters, **1994**, *35*, 1259

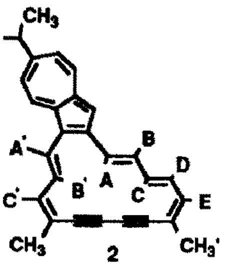
ANNELATED DEHYDROANNULENES FUSED WITH AZULENE RING. THE SYNTHESIS OF BISDEHYDRO[14]- AND -[16]ANNULENO[a]AZULENE

H. Higuchi, Juro Ojima,* Department of Chemistry, Faculty of Science, Toyama University, Gofuku Toyama 930, Japan,
M. Yasunami,* Masaaki Yoshifuji, Department of Chemistry, Faculty of Science, Tohoku University, Aramaki-aza-Aoba, Sendai 980, Japan,
K. Fujimori, Department of Chemistry, Faculty of Science, Shinshu University, Asahi, Matsumoto 390, Japan.

Bisdehydro[14]- (1) and -[16]annuleno[a]azulene (2) have been synthesized. It was found that the fusion of azulene ring suppresses the diatropicity of [4n+2], 14π-electron system to a smaller extent than benzene ring.



1



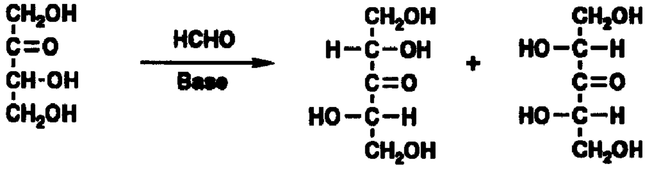
2

Tetrahedron Letters, **1994**, *35*, 1263

SYNTHESIS OF *threo*- AND *erythro*-3-PENTULOSE BY ALDOL TYPE REACTION IN WATER.

Yoshihiro Shigemasa,* Kazuhiro Yokoyama, Hitoshi Sashiwa, and Hiroyuki Saimoto, Department of Materials Science, Faculty of Engineering, Tottori University, Tottori 680, Japan

threo-3-Pentulose was stereoselectively obtained in methanol, whereas the *erythro*-isomer was major in water.

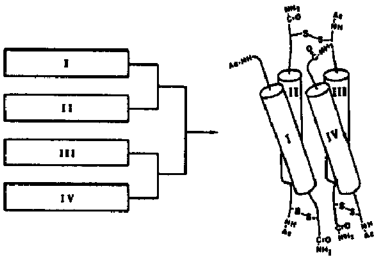


Tetrahedron Letters, **1994**, *35*, 1267

PEPTIDE-UNIT ASSEMBLING USING DISULFIDE CROSS-LINKING: A NEW APPROACH FOR CONSTRUCTION OF PROTEIN MODELS

Shiroh Futaki[1]* and Kouki Kitagawa[2]
[1]Institute for Medicinal Resources and [2]Faculty of Pharmaceutical Sciences, The University of Tokushima, Shomachi, Tokushima 770, Japan

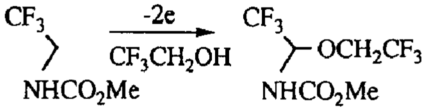
Four α-helical peptide units were assembled by selective disulfide cross-linking to afford a four-helix bundle protein composed of 84 amino acid residues.



Tetrahedron Letters, **1994**, *35*, 1271

A NEW REACTION SYSTEM FOR EFFICIENT ELECTROCHEMICAL OXIDATION OF N-METHOXYCARBONYL-2,2,2-TRIFLUOROETHYLAMINES

Yoshihiro Matsumura,* Takashi Tomita, Masaki Sudoh, and Naoki Kise
Division of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Kyoto 606-01, Japan



1 2

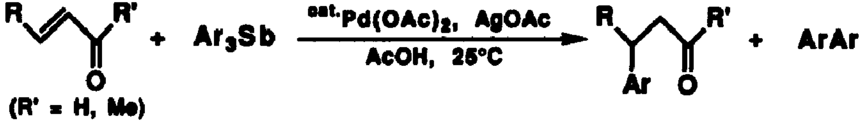
Electrochemical oxidation of N-methoxycarbonyl-2,2,2-trifluoroethylamine 1 in a system containing CF_3CH_2OH gave 2 in good yield.

Tetrahedron Letters, **1994**, *35*, 1275

PALLADIUM(II)-CATALYZED HYDROARYLATION OF α,β-UNSATURATED ALDEHYDES AND KETONES WITH TRIARYLSTIBINES IN THE PRESENCE OF SILVER ACETATE.

Chan Sik Cho, Koichiro Tanabe, and Sakae Uemura*, Division of Energy and Hydrocarbon Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto 606-01 (Japan)

Triarylstibines react with enals and enones in acetic acid in the presence of silver acetate and a catalytic amount of palladium(II) acetate to afford the hydroarylation products.

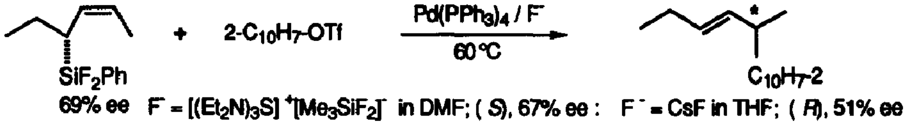


Tetrahedron Letters, **1994**, *35*, 1279

REGIO- AND STEREOSELECTIVE CROSS-COUPLING REACTION OF OPTICALLY ACTIVE ALLYLSILANES: STEREOCONTROL OF PALLADIUM-MEDIATED S_E' REACTIONS.

Yasuo Hatanaka,* Ken-ichi Goda, and Tamejiro Hiyama*† Sagami Chemical Research Center, 4-4-1 Nishiohnuma, Sagamihara, Kanagawa, 229.
†Research Laboratory of Resources Utilization, Tokyo Institute of Technology, 4259 Nagatsuda, Midori-ku, Yokohama, 227, Japan

The stereochemistry of the cross-coupling recation of optically active allylsilanes can be controlled by choice of fluoride salt and solvent.

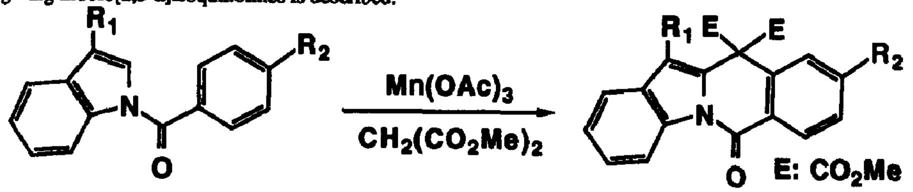


Tetrahedron Letters, **1994**, *35*, 1283

Manganese(III) Acetate Initiated Oxidative Free Radical Reaction Between *N*-Aroylindoles And Dimethyl Malonate

Che-Ping Chuang* and Sheow-Fong Wang
Dept. of Chemistry, National Cheng Kung Univ. Tainan, Taiwan, 70101, R.O.C.

The manganese(III) initiated oxidative free radical reaction between *N*-aroylindoles and dimethyl malonate giving indolo[2,3-a]isoquinolines is described.

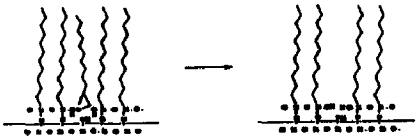


Tetrahedron Letters, **1994**, *35*, 1285

SELF-ASSEMBLED MONOLAYER COATINGS AS A NEW TOOL FOR THE RESOLUTION OF RACEMATES.

Ruth Binnes, Aharon Gedanken and Shlomo Margel, Department of Chemistry, Bar-Ilan University, Ramat Gan 52900, Israel.

Chiral voids were created in self-assembled monolayer coatings on various polar surfaces. The chiral voids were utilized for resolving a racemic mixture of a long chain oxirane.



Tetrahedron Letters, **1994**, *35*, 1289

Na-Y ZEOLITE, AN EFFICIENT CATALYST FOR THE METHOXYMETHYLATION OF ALCOHOLS

Pradeep Kumar*, Satya V.N.Raju, Ravinder S.Reddy and Bipin Pandey
National Chemical Laboratory, Pune-411 008, India.

Na-Y zeolite catalyzes efficient protection of a variety of alcohols with MOMCl under neutral conditions.

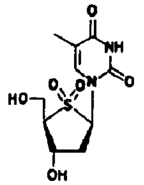
$$\mathrm{R{-}OH} + \mathrm{ClCH_2{-}OCH_3} \xrightarrow{\text{Na-Y Zeolite}} \mathrm{R{-}O{-}CH_2{-}OCH_3}$$

Tetrahedron Letters, **1994**, *35*, 1291

THE CHEMICAL SYNTHESIS AND X-RAY STRUCTURE OF THE SULFONE OF 4'-THIOTHYMIDINE.

E. Louise Hancox, Thomas A. Hamor and Richard T. Walker*
School of Chemistry, The University of Birmingham, Birmingham B15 2TT UK

The synthesis and X-Ray crystal structure of the novel nucleoside analogue (I) is described.



SULFONE OF 4'-THIOTHYMIDINE

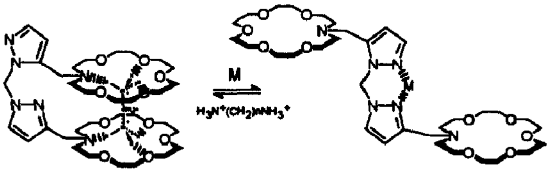
(I)

Tetrahedron Letters, **1994**, *35*, 1295

A SIMPLE POLYHETEROTOPIC MOLECULAR RECEPTOR DERIVED FROM BISPYRAZOLYLMETHANE SHOWING NEGATIVE ALLOSTERIC CO-OPERATION OF Zn(II).

Ernesto Brunet,* Olga Juanes and Juan Carlos Rodríguez-Ubis.* *Departamento de Química, C-I. Facultad de Ciencias. Universidad Autónoma de Madrid, 28049-Madrid, Spain* Fax 34 1 397 3966

The preparation of 1 as a model for negative allostery is described. Transport experiments (bulk liquid membrane) of alkyl di- and monoammonium cations in the presence or absence of ZnI_2 in the receiving phase evidenced strong negative allosteric effects of the metal towards ammonium complexation.



1A **1B**

Tetrahedron Letters, **1994**, *35*, 1299

SYNTHESIS OF ENDO-2-PHENYL-7-AZABICYCLO[2.2.1]HEPTANE VIA HIGH PRESSURE DIELS-ALDER REACTIONS OF PYRROLES

Rene W.M. Aben, Jan Keijsers, Benno Hams, Chris G. Kruse# and Hans W. Scheeren*
*Department of Organic Chemistry, NSR center, Toernooiveld, 6525 ED Nijmegen, The Netherlands
#Solvay Duphar Research Laboratories, PO Box 900, 1380 DA Weesp, The Netherlands