

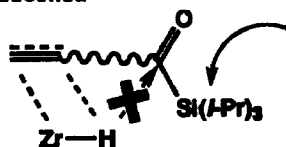
GRAPHICAL ABSTRACTS

**EXPANDING THE VERSATILITY OF SCHWARTZ' REAGENT:
HYDROZIRCONATION OF VINYLIC AND ACETYLENIC ACYL SILANES**

Tetrahedron Letters, 1994, 35, 4669

Bruce H. Lipshutz,* Craig Lindsley, and Ashok Bhandari
Department of Chemistry, University of California
Santa Barbara, CA 93106

Use of TIPS acyl silanes as carbonyl
equivalents during hydrozirconation
reactions of alkenes and alkynes.



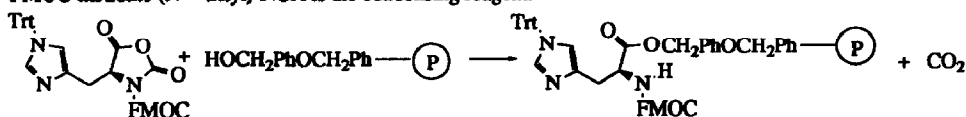
prevents
1,2-reduction

**ESTERIFICATION OF 4-ALKOXYBENZYL ALCOHOL RESIN WITH
FMOC-HISTIDINE (N^{trt}-TRITYL)-N-CARBOXYANHYDRIDE**

Tetrahedron Letters, 1994, 35, 4673

Yun-Fei Zhu, Robert K. Blair and William D. Fuller*, BioResearch Inc., 11189 Sorrento Valley Road, #4, San Diego,
CA 92121, USA

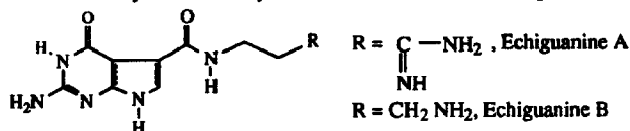
Esterification of 4-alkoxybenzyl alcohol resin is accomplished rapidly in high yield with no detectable racemization when
FMOC-histidine (N^{trt}-trityl)-NCA is the condensing reagent.



**A SHORT AND EFFICIENT SYNTHESIS OF ECHIGUANINES
A AND B: POTENT INHIBITORS OF PHOSPHATIDYL-
INOSITOL-4-KINASE.** Chuan Shih* and Ying Hu, Lilly Research Laboratories, Eli Lilly and Company,
Indianapolis, IN 46285 USA

Tetrahedron Letters, 1994, 35, 4677

An efficient palladium catalyzed carbonylation reaction was developed for the synthesis of Echiguanines.



**Studies on the Oxidation of Alcohols Employing
t-Butyl Hydroperoxide (TBHP) and Fe(III) Catalysts.**

Tetrahedron Letters, 1994, 35, 4681

Derek H. R. Barton,* Stephane D. Bévière, Béatrice M. Chabot, Warinthorn Chavasiri,
and Dennis K. Taylor.

Department of Chemistry, Texas A&M University, College Station, TX 77843-3255, USA



Utilizing Fe(III) salts and TBHP, alcohols can be oxidized to the corresponding ketones in
good yield. The mechanistic pathway is considered to involve the generation of a high-valent
Fe species.

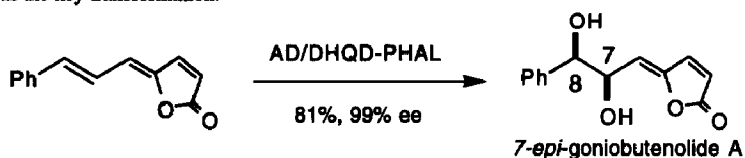
SYNTHESIS AND STEREOCHEMICAL ASSIGNMENTS FOR GONIOBUTENOLIDES A AND B

Daqiang Xu and K. Barry Sharpless*

Department of Chemistry, The Scripps Research Institute, 10666 N. Torrey Pines Road, La Jolla, CA 92037

Tetrahedron Letters, 1994, 35, 4685

Goniobutenolides A and B and their 7-epimers were stereoselectively synthesized with asymmetric dihydroxylation (AD) as the key transformation.

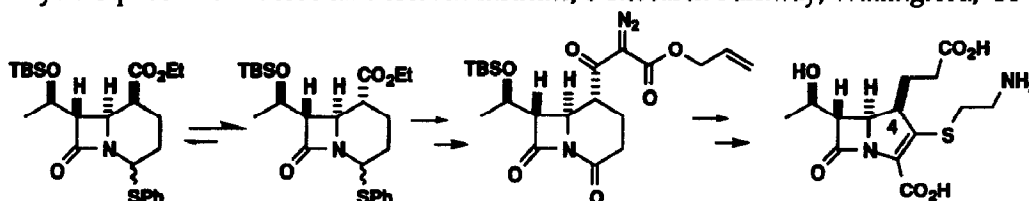


Synthesis of a 4 β -Carboxyethyl Derivative of Thienamycin

Gilles Bouthillier, Harold Mastalerz* and Marcel Menard,

Bristol-Myers Squibb Pharmaceutical Research Institute, 5 Research Parkway, Wallingford, CT 06492

Tetrahedron Letters, 1994, 35, 4689

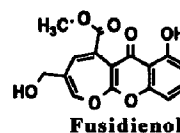


FUSIDIENOL: A NOVEL INHIBITOR OF RAS FARNESYL-PROTEIN TRANSFERASE FROM *FUSIDIUM GRISEUM*

Sheo B Singh*, E. Tracy Jones, Michael A. Goetz, Gerald F. Bills, Mary Nallin-Omstead, Rosalind G. Jenkins, Russell B. Lingham, Keith C. Silverman and Jackson B. Gibbs; Merck Research Laboratories, P. O. Box 2000 Rahway, NJ 07065 and West Point, PA 19486

Tetrahedron Letters, 1994, 35, 4693

Ras (p21) protein is frequently found mutated in human cancers and must be farnesylated by farnesyl protein-transferase (FPTase) to achieve cell-transforming activity. Our continued search for inhibitors of FPTase as potential cancer chemotherapeutics led to the isolation of fusidienol from extracts of the fungus *Fusidium griseum*. Fusidienol is a novel and potent oxygen-containing [7/6/6] tricyclic heterocycle.

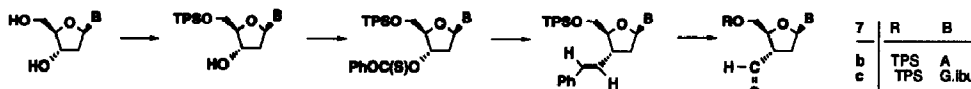


AN EASY ACCESS OF 2',3'-DIDEOXY-3'- α -C-FORMYL -ADENOSINE AND -GUANOSINE ANALOGS VIA STEREOSELECTIVE C-C BOND FORMING

RADICAL REACTION. Yogesh S. Sanghvi,* Bruce Ross, Ramesh Bharadwaj and Jean-Jacques Vasseur
Department of Medicinal Chemistry, Isis Pharmaceuticals, 2292 Faraday Avenue, Carlsbad, CA 92008, USA

Tetrahedron Letters, 1994, 35, 4697

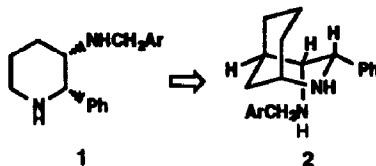
A large-scale, facile and stereoselective synthesis of 1-[5-*O*-(*tert*-butyldiphenylsilyl)-2,3-dideoxy-3- α -C-formyl- β -D-erythro-pentofuranosyl] -adenine (7b) and -*N*²-isobutyrylguanine (7c) using an intermolecular radical C-C bond formation reaction is reported. The utility of these nucleosides (7b and 7c) as building blocks for antisense oligonucleosides is discussed.



**APPLICATION OF β -LACTAMS IN THE SYNTHESIS OF
SUBSTANCE P ANTAGONISTS: PREPARATION OF 2-
AZABICYCLO[3.3.1]NONANE RING SYSTEMS** Manoj C. Desai,*† and Sheri L. Lefkowitz Central
Research Division, Pfizer Inc., Groton, CT 06340

Tetrahedron Letters, 1994, 35, 4701

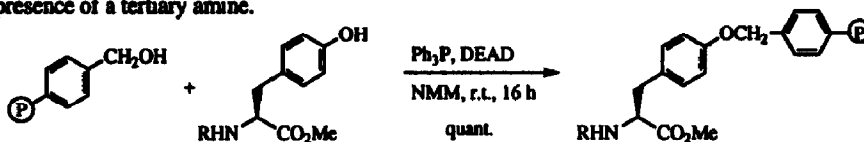
Synthesis of the locked-in chair conformer **2** of CP-99,994 (**1**) is described.



**A Surprising Observation about Mitsunobu Reactions in
Solid Phase Synthesis.** Lutz S. Richter* and Thomas R. Gadek,
Dept. of Bioorganic Chemistry, Genentech, Inc., 390 Point San Bruno
Boulevard, South San Francisco, CA 94080

Tetrahedron Letters, 1994, 35, 4705

The yield of the Mitsunobu reaction of a phenol with hydroxymethyl polystyrene resin is significantly increased in the presence of a tertiary amine.



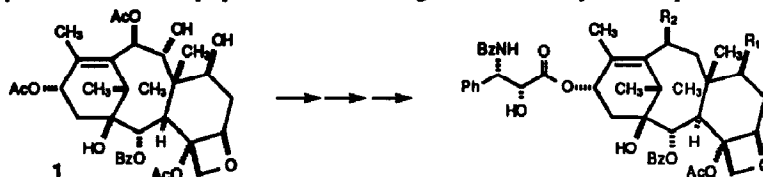
SYNTHESIS OF 9-DEOXOTAXANE ANALOGS

Tetrahedron Letters, 1994, 35, 4707

Larry L. Klein, Clinton M. Yeung, Leping Li, Jacob J. Plattner

Anti-Infective Division, D-47M AP9A, 1 Abbou Park Road, Abbou Laboratories, Abbou Park, IL 60064-3500

Starting with 13-acetyl-9(R)-dihydrobaccatin III (**1**), the C-9, C-7, and C-10 oxygens were removed. A modified C-13 sidechain precursor was used to prepare the 9-deoxo analogs. The C-9 carbonyl is not required for the retention of activity.

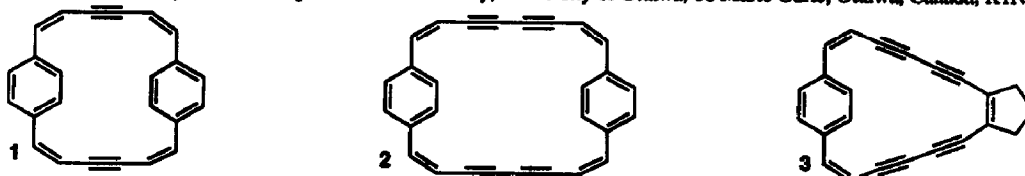


**REVOLVENEYNES: NOVEL ENEYNEPARACYCLOPHANES
BY SEQUENTIAL PALLADIUM COUPLING**

Tetrahedron Letters, 1994, 35, 4711

Miguel A. Romero and Alex G. Fallis*

Ottawa-Carleton Chemistry Institute, Department of Chemistry, University of Ottawa, 10 Marie Curie, Ottawa, Canada, K1N 6N5

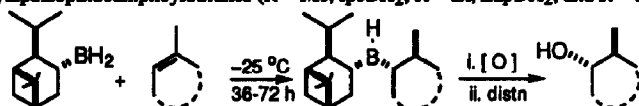


A new family of eneyne-bridged cyclophanes with freely rotating benzene rings has been synthesized.

2-ISOPROPYLAPOISOPINOCAMPHEYLBORANE, AN IMPROVED REAGENT FOR THE ASYMMETRIC HYDROBORATION OF REPRESENTATIVE PROCHIRAL ALKENES.

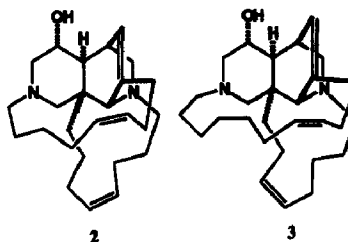
Ulhas P. Dhokte, and Herbert C. Brown*
H. C. Brown and R. B. Wetherill Laboratories of Chemistry, Purdue University, West Lafayette, IN 47907-1393

A new hydroborating agent, 2-isopropylapoisopinocampheylborane (ⁱPraBH₂), achieves the asymmetric hydroboration of representative prochiral alkenes in higher optical purities than that achieved by the borane derivatives, 2-organylapoisopinocampheylboranes (R = Me, IpcBH₂; R = Et, EapBH₂; and R = Ph, PapBH₂) previously examined.

**REVISED STRUCTURE OF XESTOCYCLAMINE A AND DESCRIPTION OF A NEW ANALOGUE**

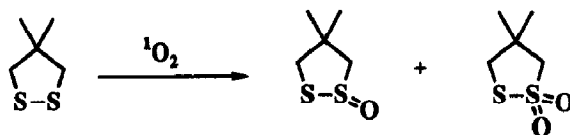
Jaime Rodríguez and Phillip Crews*. Department of Chemistry and Biochemistry and Institute for Marine Sciences, University of California, Santa Cruz, Santa Cruz, CA 95064.

The structure of xestocyclamine A from the sponge *Xestospongia* sp. has been revised to 2. The proposed structure of a new two carbon homologue, xestocyclamine B (3), is also presented.

**PHOTOOXIDATIONS OF SULFENIC ACID DERIVATIVES 2. A REMARKABLE SOLVENT EFFECT ON THE REACTIONS OF SINGLET OXYGEN WITH DISULFIDES.**

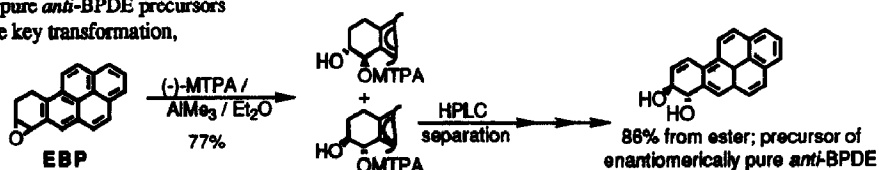
Edward L. Cleenan,* Dongyi Wang, Houwen Zhang, Christine H. Clifton, Department of Chemistry, University of Wyoming, Laramie WY 82071 USA

The thiosulfinate/thiosulfonate ratio has been measured for the photooxidations of 9 disulfides and mechanistically interpreted.

**IMPROVED FORMAL PREPARATION OF ENANTIOMERICALLY PURE anti-BENZO[a]PYRENE DIOL EPOXIDE.**

George R. Negrete and Thomas Meehan*
Departments of Pharmacy and Pharmaceutical Chemistry, University of California, San Francisco, CA 94143-0446

The route to enantiomerically pure *anti*-BPDE precursors is shortened by 2 steps. In the key transformation, trimethylaluminum catalysed addition of Mosher's acid (MTPA) to EBP gives benzylic esters exclusively.

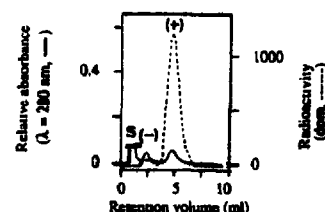
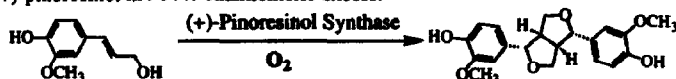


(+)-PINORESINOL SYNTHASE: A STEREOSELECTIVE OXIDASE CATALYSING 8,8'-LIGNAN FORMATION IN *FORSYTHIA INTERMEDIA*.

Tetrahedron Letters, 1994, 35, 4731

Paul W. Paré, Hui-Bin Wang, Laurence B. Davin and Norman G. Lewis*, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6340, USA.

8,8'-Lignan skeletal formation is engendered by (+)-pinoresinol synthase, an oxidase catalysing the stereoselective coupling of two achiral *E*-coniferyl alcohols to give (+)-pinoresinol in >97% enantiomeric excess.



ALPHA-DEUTERIUM ISOTOPE EFFECTS IN THE THERMOLYSIS OF β-HYDROXY ESTERS

Tetrahedron Letters, 1994, 35, 4735

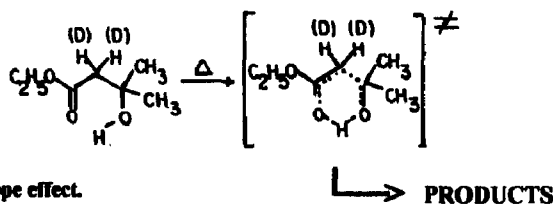
J. Quijano*, I. Restrepo**, L.H. Gallego** and M. del S. Yepes**.

* Departamento de Química, Universidad Nacional de Colombia, Apartado Aéreo 586, Medellín - Colombia

** Departamento de Química, Universidad de Antioquia, Apartado Aéreo 1276, Medellín - Colombia

A change of hybridization of C-2 ($sp^3 \rightarrow sp^2$)

in the transition state is suggested by the α -Deuterium Isotope effect.



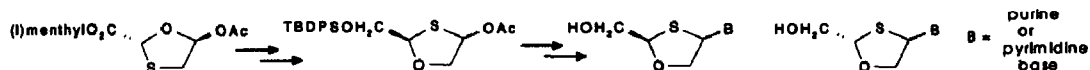
Synthesis of Optically Active 2',3'-Dideoxy-3'-oxa-4'-thio-ribo-nucleoside Analogues by Transposition of a Leaving Group on Chiral Oxathiolanes via a Reductive-oxidative Process

Tetrahedron Letters, 1994, 35, 4739

Wei Wang, Haolun Jin* and Tarek S. Mansour

BioChem Therapeutic Inc., 275 Armand-Frappier Blvd., Laval, Quebec, Canada H7V 4A7

Reductive-Oxidative transformation of chiral oxathiolanes has led to the transposition of the existing leaving group and provided the access to a series of novel chiral nucleoside analogues.

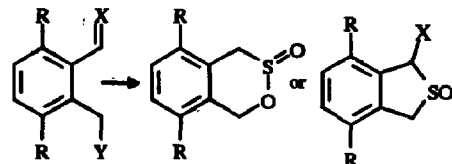


Efficient Synthesis of 5,8-Disubstituted-1,4-Dihydrobenzoxathiazin-3-Oxides and Their Isomeric Structures, 4,7-Disubstituted-1,3-Dihydrobenzo[b]

Tetrahedron Letters, 1994, 35, 4743

Thiophene-2,2-Dioxides, Giorgio Attardo*, Wuyi Wang*, Jean-Louis Kraus† and Bernard Belleau‡, BioChem Therapeutic Inc., 531 Blvd des Prairies, Laval, Québec H7V 1B7, Canada, †Laboratoire de chimie biomoléculaire, Faculté de Sciences de Luminy, 13009 Marseille Cedex 9, France

Functionalized dihydrobenzoxathiazin oxides and dihydrobenzothiophene-2,2-dioxides 11-18 have been prepared via trapping of sulfur dioxide under photolytic or ground state conditions

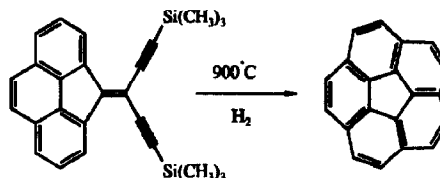


Synthesis and Hydropyrolysis of Bis-trimethylsilyl Substituted 3-(4H-Cyclopenta[def]phenanthrylidene)-1,4-pentadiyne. A New Route to Corannulene.

Tetrahedron Letters, 1994, 35, 4747

Gerhard Zimmermann*, Uta Nuechter, Stefan Hagen and Matthias Nuechter, Department of High Temperature Reactions at the Institute of Chemical Technology, University of Leipzig, Permoserstr. 15, D - 04303 Leipzig, Germany

3-(4H-Cyclopenta[def]phenanthrylidene)-1,5-bis-(trimethylsilyl)-1,4-pentadiyne was synthesized and converted by hydropyrolysis into corannulene besides others in reasonable yields.

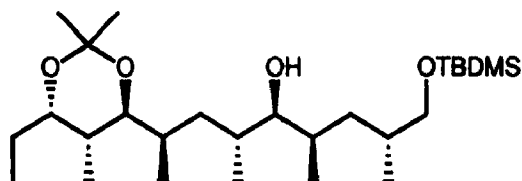


SYNTHESIS OF A C-15/C-27 SEGMENT OF VENTURICIDINE

Tetrahedron Letters, 1994, 35, 4751

Reinhard W. Hoffmann and Ulrike Rolle
Fachbereich Chemie der Philipps-Universität,
D-35032, Marburg, Germany

An iterative procedure for the synthesis of 1,3,5,n-poly-methylated alkyl chains has been developed. Key steps are a stereoselective allylboration reaction followed by hydroboration/carbonylation. Every third stereocenter is set up by an epimerisation of a lactol.



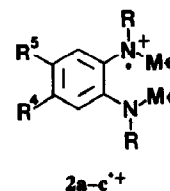
Radical Cations of 1,2-Bis(dialkylamino)benzenes:

Tetrahedron Letters, 1994, 35, 4755

Restricted Rotation about the C-NMe₂ Bond

Franz A. Neugebauer*, Britta Funk, and Heinz A. Staab, Abteilung Organische Chemie,
Max-Planck-Institut für medizinische Forschung, Jahnstr. 29, D-69120 Heidelberg, Germany

ESR of the radical cations 2a-c^{•+}; restricted rotation about the C(aryl)-N bond; *endo/exo* assignment of the N-methyl groups.

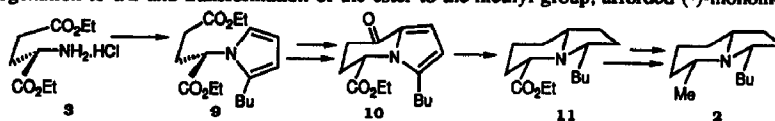


THE ENANTIOSPECIFIC SYNTHESIS OF (-)-MONOMORINE FROM L-GLUTAMIC ESTER

Tetrahedron Letters, 1994, 35, 4759

C.W. Jefford, K. Sienkiewicz, and S.R. Thornton
Department of Organic Chemistry, University of Geneva,
1211 Geneva 4, Switzerland

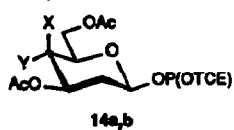
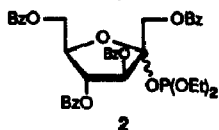
Diethyl L-glutamate hydrochloride (3) was converted to the 2-butylpyrrole derivative 9, which on cyclization to 10, catalytic hydrogenation to 11 and transformation of the ester to the methyl group, afforded (-)-monomorphine (2).



UTILITY OF GLYCOSYL PHOSPHITES AS GLYCOSYL DONORS - FRUCTOFURANOSYL AND 2-DEOXYHEXOPYRANOSYL PHOSPHITES IN GLYCOSIDE BOND FORMATION

Tetrahedron Letters, 1994, 35, 4763

Thomas Müller, Regine Schneider, R.R. Schmidt
Fakultät Chemie, Universität Konstanz, Postfach 5560 M 725, D-78434 Konstanz



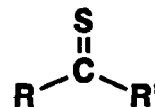
X = H, Y = OAc
X = OAc, Y = H
TCE = CCl₃-CH₂

DIE DIENOPHILE REAKTIVITÄT DER C=S-BINDUNG IN (4+2)-CYCLOADDITIONEN: KINETISCHE STUDIE MIT THIOBENZOPHENONEN UND THIOFLUORENON

Tetrahedron Letters, 1994, 35, 4767

Jürgen Schatz und Jürgen Sauer
Institut für Organische Chemie der Universität Regensburg,
D-93040 Regensburg, Germany

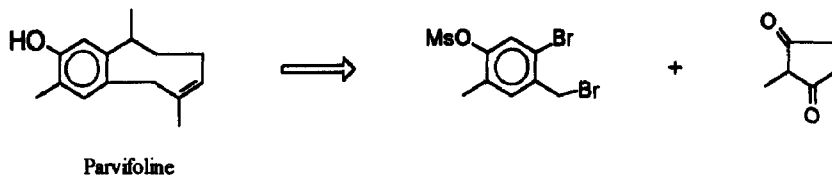
Thioketones R-CS-R' are superdienophiles in Diels-Alder-cycloaddition reactions.



SYNTHESE TOTALE DE LA (±)-PARVIFOLINE

Tetrahedron Letters, 1994, 35, 4771

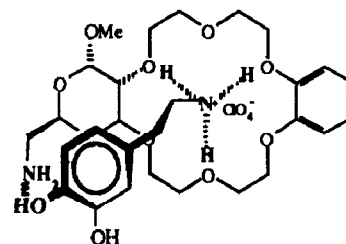
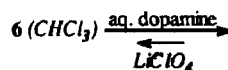
R. Villagómez-Ibarra et P. Joseph-Nathan, Departamento de Química, CINVESTAV-IPN, México, D.F., 07000.



CROWN ETHERS WITH PENDANT PRIMARY AMINO-GROUP FOR COMPLEXATION OF DOPAMINE

Tetrahedron Letters, 1994, 35, 4773

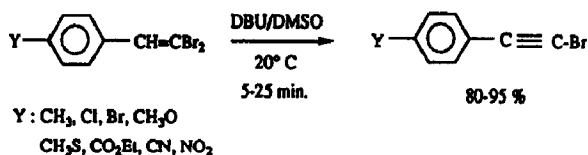
Béatrice Dumont, Marie-Françoise Schmitt, and Jean-Pierre Joly*
Laboratoire de Méthodologie et Synthèse Enantiospécifique de Biomolécules,
associé au CNRS, Faculté des Sciences, Université de Nancy I, BP 239,
F-54506 Vandoeuvre-lès-Nancy, France



The complexing ability of two novel 18-6 crown ethers (6 and 8) derived from a common 6-amino-6-deoxy- α -D-glucopyranoside framework towards dopamine was demonstrated

DBU/DMSO PROMOTED DEHYDROBROMINATION OF 1,1-DIBROMOLEFINS. A GENERAL SYNTHESIS OF 1-BROMOAROMATIC ALKYNES UNDER MILD CONDITIONS.

Victorin Ratovelomanana*, Yolande Rollin, Catherine Gebehenne, Corinne Gosmini and Jacques Périchon.
Laboratoire Mixte de Recherche C.N.R.S. Electrochimie, Catalyse et Synthèse Organique (L.E.C.S.O.) UMR n° 28, 2, rue Henri-Dunant 94320 Thiais (France)

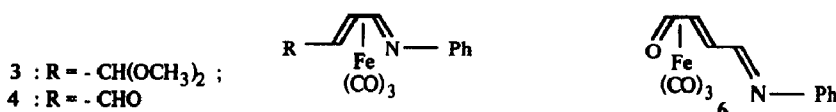


SYNTHESIS OF NEW FUNCTIONALIZED AZADIENE CARBONYL IRON COMPLEXES

Hassan Cherkaoui, Jacques Martelli,* René Grée

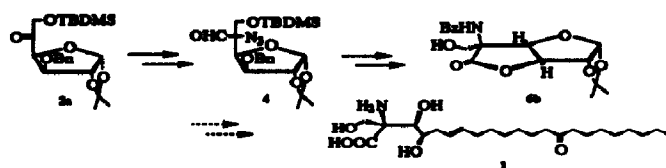
Laboratoire de Synthèses et Activations de Biomolécules, associé au CNRS
ENSCR, Avenue du Général Leclerc, 35700 Rennes, France

New carbonyliron complexes of 1-aza-1,3-dienes **3**, **4** and **6** bearing an aldehyde function in position 4 are easily prepared from the corresponding fumaraldehyde complexes by aza Wittig reactions.



Synthesis of α -Azido Aldehydes. Stereoselective Access to the Immunosuppressant Myrlicin.

Sandrine Deloisy^a, Ton That Thang^b, Alain Olesker^{a*}, and Gabor Lukacs^a
Institut de Chimie des Substances Naturelles du C.N.R.S., 91198 Gif sur Yvette, France^a and
Laboratoire de Chimie Bio-organique, associé au C.N.R.S., Place E. Bataillon, 34095 Montpellier, France^b.

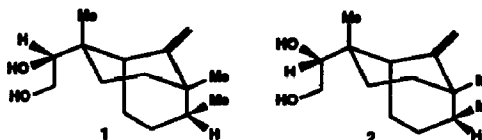


Stereoselective preparation of an acyclic α -azido aldehyde permitted access in a few steps to a key intermediate in a formal synthesis of myrlicin.

Trifaricenis A and B, Isolated from the Liverwort *Cheilolejeunea trifaria*.

Sesquiterpenes having a New Carbon Skeleton, Trifarane

Toshihiro Hashimoto, Hiroki Koyama, Shigeru Takaoka, Motoo Tori, and Yoshimori Asakawa*
Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro cho, Tokushima 770, Japan

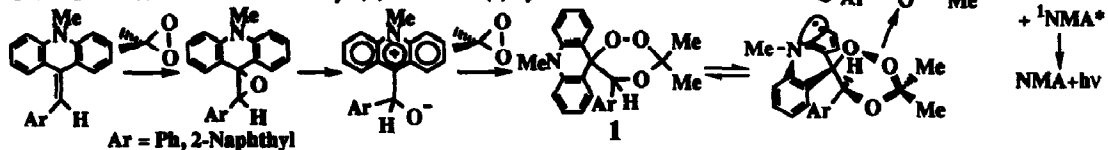


Trifaricenis A (1) and B (2), have been isolated from the liverwort *Cheilolejeunea trifaria*, and their stereostructures established mainly by analyses of 2D NMR spectra and X-ray crystallography.

A Novel Chemiluminescence from the Reaction of 9-Aryl-methylene-10-methyl-9,10-dihydroacridines and Dimethyldioxirane.

Tetrahedron Letters, 1994, 35, 4789

Katsunasa Sakamichi,* Yoshiyuki Kato, Emi Mizukoshi and Kazufumi Shimizu
Department of Chemistry, Suzuka College of Technology, Shiroko, Mie 510-02, Japan
Chemiluminescence from intermediary 1,2,4-trioxanes (1) by a CIEEL mechanism.

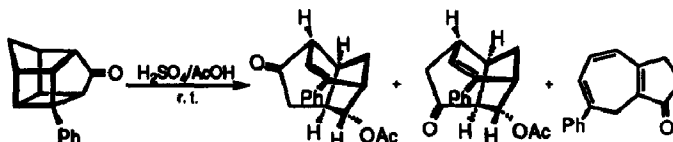


ACID-CATALYZED REARRANGEMENT OF PHENYLSUBSTITUTED 1,3-BISHOMOCUBANONE VIA SEVERAL EQUILIBRATING NON-CLASSICAL BICYCLOBUTONIUM IONS.

Tetrahedron Letters, 1994, 35, 4793

Toshio Ogino,* Noriko Ohtaki, Satoko Yamai and Fumio Wada, Department of Chemistry, Faculty of Education, Niigata University, Niigata 950-21, JAPAN
Kazuyuki Awano, Department of Industrial Chemistry, Nagaoka College of Technology, Nagaoka 940, JAPAN

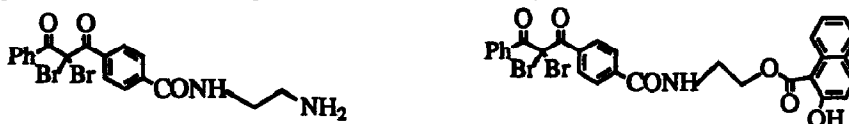
4-Phenylpentacyclo[5.3.0.0^{2,5}.0^{3,9}.0^{4,8}]decan-6-one in acetic acid undergoes H₂SO₄-catalyzed rearrangement to give two novel tricyclic acetoxyketones and a 2,3-dihydro-1(8H)-azulenone via equilibrating carbocation intermediates.



A NOVEL PHOTOCHEMICAL DNA-CLEAVING AGENT, BROMINATED DIBENZOYLMETHANES

Tetrahedron Letters, 1994, 35, 4797

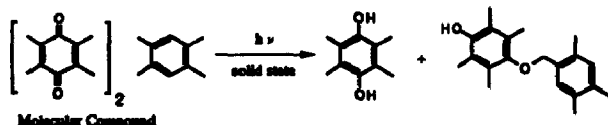
Isao Saito*, Tomonori Sakurai, Tomoyuki Kurimoto and Masami Takayama
Department of Synthetic Chemistry and Biological Chemistry, Faculty of Engineering, Kyoto University, Kyoto 606-01, Japan
Novel photochemical DNA-cleaving molecules shown below were synthesized.



PREPARATION, CRYSTAL STRUCTURE, AND PHOTOCHEMISTRY OF A NOVEL MOLECULAR COMPOUND

Tetrahedron Letters, 1994, 35, 4801

BETWEEN DUROQUINONE AND DURENE Hideko Koshima,*†,†† Xinkan Yao,§ Honggen Wang,§ Ruji Wang,§ and Teruo Matsuura††† PRESTO, Research Development Corporation of Japan, Faculty of Science and Technology, Ryukoku University, Seta, Otsu 520-21, Japan. †† Department of Materials Chemistry, Faculty of Science and Technology, Ryukoku University, Seta, Otsu 520-21, Japan. § Central Laboratory, Nankai University, Tianjin, China.

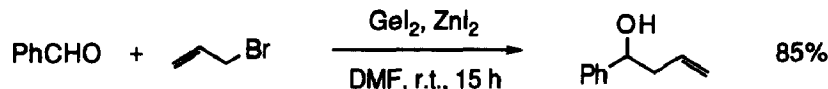


Preparation and X-ray crystallographic analysis of a molecular compound composed of duroquinone and durene and its photoreaction in the solid state are described.

ALLYLATION OF CARBONYL COMPOUNDS MEDIATED BY GERMANIUM(II) IODIDE. Yukihiro Hashimoto, Hirotaka Kagoshima, and Kazuhiko Saigo, Department of Synthetic Chemistry, Faculty of Engineering, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan

Tetrahedron Letters, 1994, 35, 4805

Germanium(II) iodide reacts with allyl bromide in the presence of zinc iodide to afford allylgermanium(IV), which adds to carbonyl compounds to give the corresponding homoallylic alcohols in good yields.



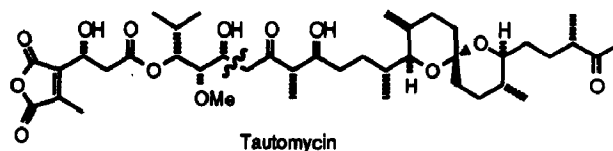
Total Synthesis of Tautomycin:

Tetrahedron Letters, 1994, 35, 4809

Efficient Aldol Coupling of the Two Large Subunits

Hideaki Oikawa,* Masato Oikawa, Tohru Ueno and Akitami Ichihara*

Department of Bioscience and Chemistry, Faculty of Agriculture, Hokkaido University, Sapporo 060, Japan

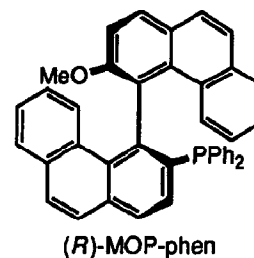
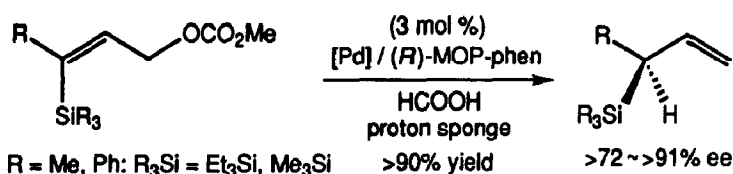


Asymmetric Synthesis of Allylsilanes by Palladium-Catalyzed Asymmetric Reduction of Allylic Carbonates with Formic Acid

Tetrahedron Letters, 1994, 35, 4813

Tamio Hayashi,* Hiroshi Iwamura, and Yasuhiro Uozumi

Catalysis Research Center, Hokkaido University, Sapporo 060, Japan

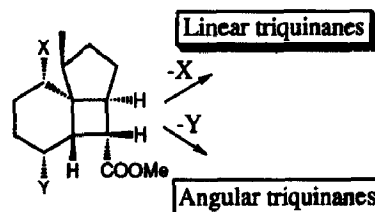


Facile Syntheses of Both Linear and Angular Triquinanes from The Tricyclo[5.4.0.0^{1,5}]undec-9-ene-8,11-dione Efficiently Produced by a Combination of Electro- and Photochemical Reactions

Tetrahedron Letters, 1994, 35, 4817

Shojiro Maki, Kunihiro Toyoda, Takashi Mori, Seiji Kosemura, and Shosuke Yamamura*
Dept. of Chem., Faculty of Science and Technology, Keio University,
Yokohama 223, Japan.

The tricyclo[5.4.0.0^{1,5}]undec-9-ene-8,11-dione produced by a combination of electro- and photochemical reactions was readily converted into two different types of triquinane.



Tetrahedron Letters, 1994, 35, 4819

A SYNTHETIC APPROACH TO CUPARANE AND HERBERTANE SESQUITERPENOIDS FROM A COMMON INTERMEDIATE.

Tse-Lok Ho* and May Hua Chang, Department of Applied Chemistry, National Chiao Tung University, Hsinchu, Taiwan.

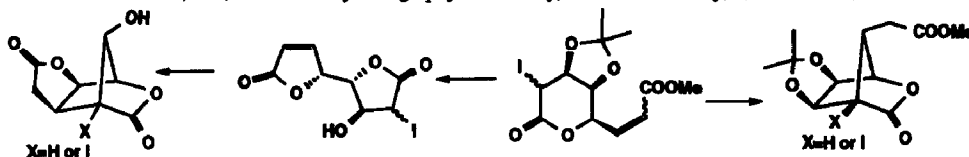
Intramolecular Diels-Alder reaction of a pyridazine derived from β -ionone was used to prepare a common intermediate for cuparane and herbertane sesquiterpenoids.



Tetrahedron Letters, 1994, 35, 4823

FORMATION OF HIGHLY SUBSTITUTED CYCLOPENTANES FROM RADICAL AND ANIONIC MICHAEL CYCLISATIONS OF α -IODO- γ - AND - δ -LACTONES

K. Y. Hsia, P. Ward, R. B. Lamont, P. M. de Q. Lilley, D. J. Watkin and G. W. J. Fleet: Dyson Perrins Laboratory, Oxford University, South Parks Road, Oxford OX1 3QY, UK; Glaxo Research & Development, Greenford Road, Greenford, Middlesex UB6 0HE, UK; Chemical Crystallography Laboratory, Oxford University, 9, Parks Road, Oxford OX1 3PD, UK

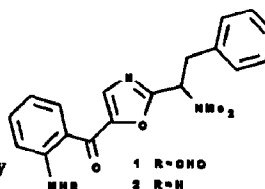


Tetrahedron Letters, 1994, 35, 4827

Almazole A and Almazole B, Unusual Marine Alkaloids of an Unidentified Red Seaweed of the Family Delesseriaceae

from the Coasts of Senegal Ibrahima NDiaye, Graziano Guella, Giuseppe Chiosera, Ines Mancini, Francesco Pietra. Istituto di Chimica, Facoltà di Scienze MPN, Università di Trento, 38050 Povo-Trento, Italy.

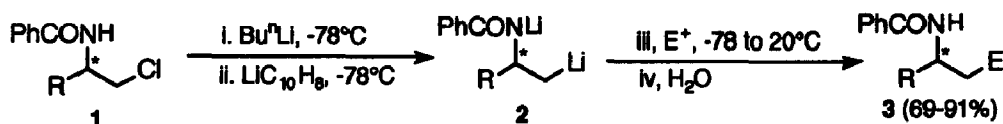
Almazole A 1 and almazole B 2, unusual marine alkaloids for entailing a 2,5-disubstituted oxazole ring, were isolated from an unidentified red seaweed of the family Delesseriaceae from the coasts of Senegal



Tetrahedron Letters, 1994, 35, 4831

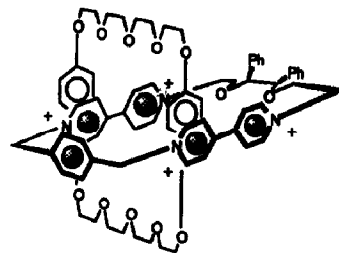
SYNTHESIS OF ENANTIOMERICALLY PURE FUNCTIONALISED AMIDES (EPC-SYNTHESIS) FROM CHIRAL β -AMINATED ORGANOLITHIUM INTERMEDIATES

F. Foubelo and M. Yus*, Departamento de Química Orgánica, Universidad de Alicante, Apdo. 99, 03080 Alicante, Spain



[R=Et, Ph, PhCH₂; E⁺=H₂O, D₂O, Me₂S₂, (CH₂)₅CO, Bu'CHO, PhCHO]

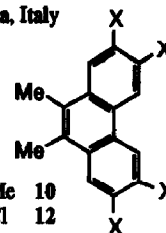
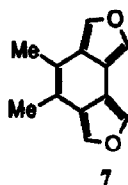
AN OPTICALLY-ACTIVE [2]CATENANE MADE TO ORDER

Peter R. Ashton,^a Isabel Iriepa,^b Mark V. Reddington,^b Neil Spencer,^a Alexandra M.Z. Slawin,^c J. Fraser Stoddart,^a and David J. Williams^c^a School of Chemistry, University of Birmingham, Edgbaston, Birmingham B15 2TT, UK^b Department of Chemistry, The University, Sheffield S3 7HF, UK^c Department of Chemistry, Imperial College, London SW7 2AY, UKThe self-assembly of an optically-active [2]catenane ((S,S)-10.4PF₆), incorporating a chiral hydrobenzoin unit in one of its component rings, has been achieved.((S,S)-10.4PF₆)

A NEW ROUTE TO PHENANTHRENE DERIVATIVES

Daniele Giuffrida^a, Franz H. Kohne^a, Melchiorre Parisi^a, Francisco M. Raymo^a and J. Fraser Stoddart^b^a Dipartimento di Chimica Organica e Biologica, Università di Messina, Salita Sperone 31, 98166 Messina, Italy^b School of Chemistry, University of Birmingham, Edgbaston, Birmingham B15 2TT, UK

A new route to phenanthrene derivatives (10 and 12), involving Diels-Alder reactions of the bisdiene 7 followed by hydrogenation and dehydration, has been developed.

X = CO₂Me 10X = CH₂Cl 12

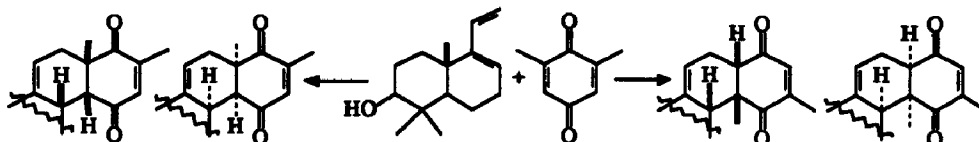
REGIO AND STEREOCHEMICAL VARIATIONS IN DIELS-ALDER REACTIONS.

S. Arseniyadis^a, R. Rodriguez, D.V. Yashunsky, J. Camara and G. Ourisson^b

Institut de Chimie des Substances Naturelles, CNRS, F-91198 Gif-sur-Yvette (France)

^bLaboratoire de Chimie des Substances Naturelles, Université Louis Pasteur, F-67084 Strasbourg (France).

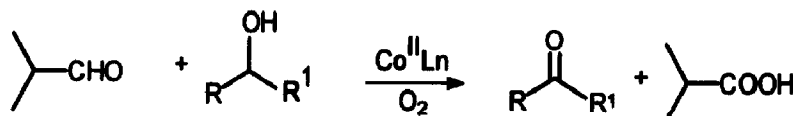
Medium dependent orientation and facial selectivity reversals are reported.



COBALT CATALYSED OXIDATION OF SECONDARY ALCOHOLS WITH DIOXYGEN IN THE PRESENCE OF 2-METHYLPROPANAL

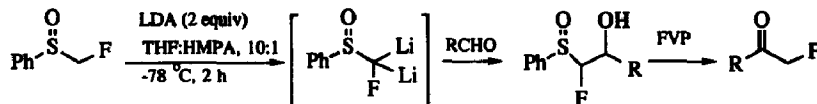
Swinder Jeet Singh Kalra, T. Punniyamurthy and Javed Iqbal

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

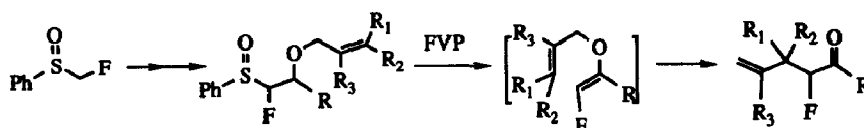


AN IMPROVED PROCEDURE FOR THE SYNTHESIS OF FLUOROMETHYLKETONES: FLASH VACUUM PYROLYTIC ELIMINATION

Vichai Reutrakul*, Thongchai Kruahong and Manat Pohmakotr, Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400, Thailand.


A NOVEL METHOD FOR THE SYNTHESIS OF α -FLUOROKETONES VIA CLAISEN REARRANGEMENT

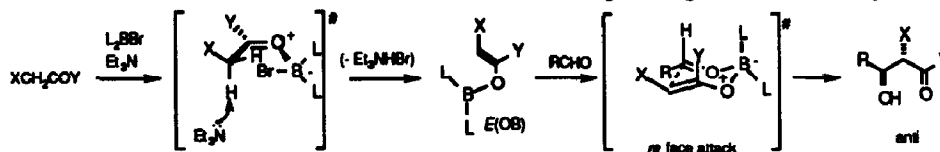
Vichai Reutrakul*, Thongchai Kruahong and Manat Pohmakotr, Department of Chemistry, Faculty of Science, Mahidol University, Rama 6 Road, Bangkok 10400, Thailand.


A HIGHLY ENANTIO- AND DIASTEREOSELECTIVE ALDOL REACTION FOR α -HETEROSUBSTITUTED THIOACETATES

Cesare Gennari, Anna Vulpetti, Daniela Moreasca

Dip. di Chimica Organica e Industriale, Università di Milano, Centro CNR (Sost.Org.Nat.), via Venezian 21, 20133 Milano, Italy

Boron enolates derived from α -heterosubstituted thioacetates and bearing chiral ligands react with aldehydes with excellent stereocontrol.


MODEL STUDIES TOWARDS THE INSECT ANTIFEEDANT JODRELLIN A USING AN ORGANOSELENIUM MEDIATED CYCLIZATION REACTION.

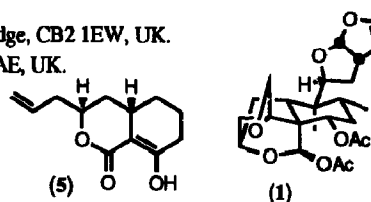
Wally M. Blaney,^a Ana C. Cuñat,^b Steven V. Ley,^{a,b} Francis J. Montgomery^b and Monique S.J. Simmonds^c

a) Department of Biology, Birkbeck College, WC1E 7HX, UK.

b) Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge, CB2 1EW, UK.

c) Jodrell Laboratory, Royal Botanic Gardens, Kew, Richmond, Surrey, TW9 3AE, UK.

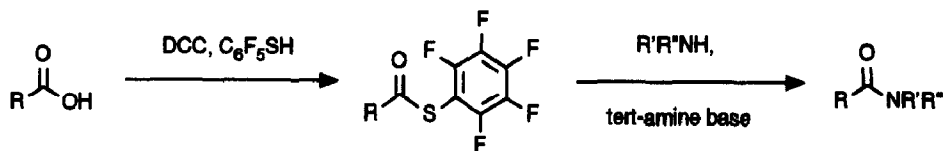
An organoselenium mediated cyclization of a β -ketolactone (5), was used as the key step in an efficient synthesis of the molecular skeleton of the antifeedant Jodrellin A (1).



**AMIDE BOND FORMATION VIA
PENTAFLUOROTHIOPHENYL ACTIVE ESTERS**

Tetrahedron Letters, 1994, 35, 4865

Anthony P. Davis* and John J. Walsh, Department of Chemistry, Trinity College, Dublin 2, Ireland.



The intermediate thioesters are similar in properties to pentafluorophenyl esters, but are more active and therefore more useful as donors of relatively unreactive acyl groups.

**STEREOSPECIFIC ROUTE FOR THE SYNTHESIS OF
1,5-LACTAMS : SYNTHESIS OF (2S,3S,4R,5R)-METHYL-
3,4,5-TRIPHENYLMETHYLENOXY-6-OXO-PIPERIDINE-2
CARBOXYLATE**

Tetrahedron Letters, 1994, 35, 4869

Sreenivasulu Guntha and Hari Babu Mereyala*
Bio-Organic Laboratory, Indian Institute of Chemical
Technology, Hyderabad 500 007, India

Synthesis of the title compound is described.

