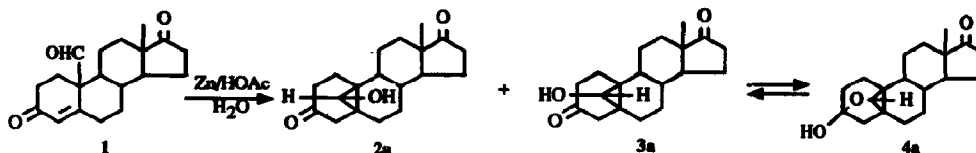


GRAPHICAL ABSTRACTS

Tetrahedron Letters, 1994, 35, 5755

SYNTHESIS AND ISOMERIZATION OF 19-HYDROXY-5 β ,19-CYCLOSTEROIDS. John F. Templeton,^a Weiyang Lin,^a Yangzhi Ling^a and Kirk Marat,^b ^aFaculty of Pharmacy, ^bDepartment of Chemistry, University of Manitoba, Winnipeg, Manitoba, Canada R3T 3M1.

Reductive cyclization of androst-4-ene-3,17-dione-19-al leads to 19(R/S)-hydroxy-5 β ,19-cycloandrosta-3,17-dione.

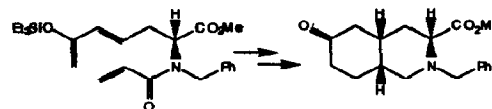


Tetrahedron Letters, 1994, 35, 5759

Intramolecular Diels-Alder Route To 6-Oxodecahydroisoquinoline-3-Carboxylates: Intermediates For The Synthesis Of Conformationally Constrained Excitatory Amino Acid Antagonists

Paul L. Ornstein*, Anita Melikian, and Michael J. Martinelli, Lilly Research Laboratories, A Division of Eli Lilly and Company, Lilly Corporate Center, Indianapolis, Indiana, 46285

An intramolecular Diels-Alder reaction is utilized as a key bond forming step in the stereoselective synthesis of 6-oxohydroisoquinoline-3-carboxylates. Asymmetry is ultimately derived from commercially available methyl *N*-BOC-L-aspartate.



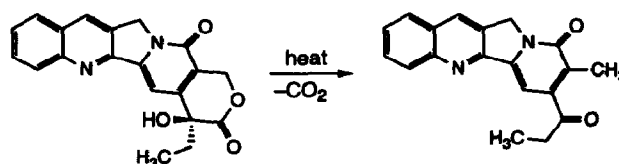
Tetrahedron Letters, 1994, 35, 5763

PREPARATION OF MAPPICINE KETONES FROM CAMPTOTHECINS: CHEMISTRY OF THE CAMPTOTHECIN E RING

J. M. D. Fortunak, A. R. Mastrocola, M. Mellinger, J. L. Wood*

Synthetic Chemistry Department, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939 USA

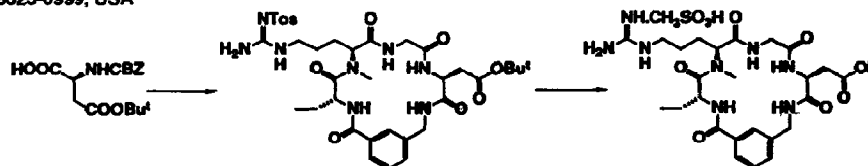
Camptothecin and its analogues are thermolyzed at 150-200 °C to yield mappicine ketones by loss of carbon dioxide from the α -hydroxylactone ring.



Tetrahedron Letters, 1994, 35, 5765

Facile Detosylation of Cyclic Peptides. An Effective Synthesis of Platelet Glycoprotein IIb/IIIa Inhibitors

Lin-hua Zhang*, Philip Ma, Chemical Process R&D, PRF(S1), DuPont Merck Pharmaceutical Company, Deepwater, NJ 08023-0999, USA



A general and effective synthesis of cyclopentapeptides containing Arg-Gly-Asp sequence is reported.

AN EFFICIENT TOTAL SYNTHESIS OF NEOPATULIN

John Boukourvalas* and François Maltais

Département de Chimie, Université Laval, Québec (Québec), Canada G1K 7P4

Tetrahedron Letters, 1994, 35, 5769

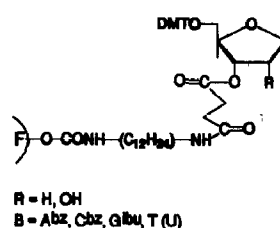
Neopatulin has been synthesized by a short, highly efficient route from readily available reagents.

**New and Efficient Solid Support for the Synthesis of Nucleic Acids**

M. P. Reddy*, M. A. Michael, Firdous Farooqui and N. S. Girgis

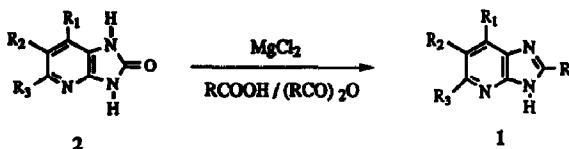
Advanced Technology Center, Beckman Instruments Inc., 2500 Harbor Blvd., Fullerton, CA 92634.

We have developed a suitably derivatized Fractogel (Toyopearl) as an efficient solid support for the synthesis of oligodeoxyribonucleotides, oligoribonucleotides and oligonucleoside phosphorothioates.

*Tetrahedron Letters*, 1994, 35, 5771**Magnesium-Assisted Imidazole Formation from Unreactive Ureas.**

Chris H. Semanysky*, Laura E. Fredenburgh, Robert A. Reamer, Ji Liu, Robert D. Larsen, Thomas R. Verhoeven and Paul J. Reider. Merck Research Laboratories, Division of Merck & Co., Inc., P.O. Box 2000, Rahway, New Jersey 07065, USA.

Novel and facile synthesis of imidazopyridine derivatives 1 from highly stable ureas 2 is described.

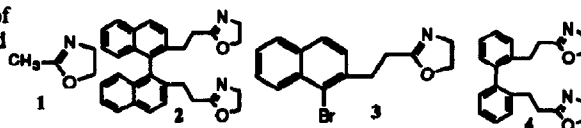
Tetrahedron Letters, 1994, 35, 5775**FACILE ALKYLATION OF 2-METHYL-2-OXAZOLINE: SYNTHESIS OF NOVEL 2-SUBSTITUTED-2-OXAZOLINES.**

Rutger D. Puts and Dotsevi Y. Sogah*

Department of Chemistry, Baker Laboratory, Cornell University, Ithaca NY 14853

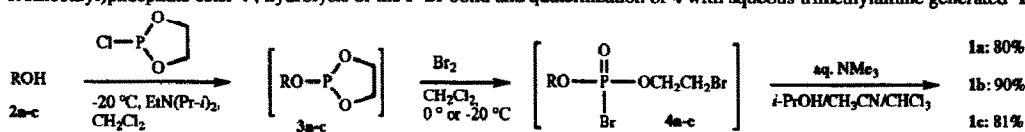
Tetrahedron Letters, 1994, 35, 5779

The synthesis and mechanism of formation of novel 2-substituted-2-oxazolines such as 2-4 by alkylation of 1 are described.



ANTITUMOR PHOSPHOLIPIDS: A ONE-POT INTRODUCTION OF A PHOSPHOCHOLINE MOIETY INTO LIPID HYDROXY ACCEPTORS

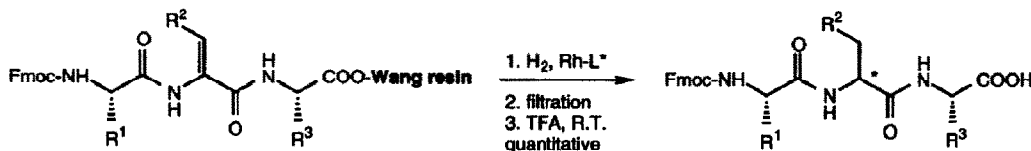
Ravi Kumar Erukulla, Hoe-Sup Byun, and Robert Bittman,* Department of Chemistry and Biochemistry, Queens College of The City University of New York, Flushing, New York 11367-1597 U.S.A.

A high-yielding, 3-step, one-pot conversion of lipid hydroxy acceptors **2** into clinically useful alkylphosphocholines **1** is reported. Reaction of **2** with ethylene chlorophosphite gave phosphite **3**, which underwent oxidation and ring opening with bromine in CH_2Cl_2 to give (2-bromoethyl)phosphate ester **4**; hydrolysis of the P-Br bond and quaternization of **4** with aqueous trimethylamine generated **1**.**CATALYTIC ASYMMETRIC SYNTHESIS OF PEPTIDES ON POLYMER SUPPORT**

Iwao Ojima*, Chung-Ying Tsai, Zhaoda Zhang

Department of Chemistry, State University of New York at Stony Brook, Stony Brook, NY 11794

Efficient catalytic asymmetric hydrogenation of dehydrotripeptides linked to the Wang resin using chiral rhodium catalysts.

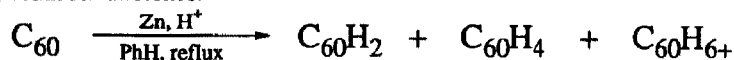
**SYNTHESIS OF HYDROGENATED FULLERENES BY****ZINC/ACID REDUCTION.** Mark S. Meier,* Perry S. Corbin,

Virginia K. Vance, Mark Clayton, Michael Mollman, Department of Chemistry, University of

Kentucky, Lexington, KY 40506-0055 USA

Magdalena Poplawska, Faculty of Chemistry, Warsaw Technical University (Politechnika),

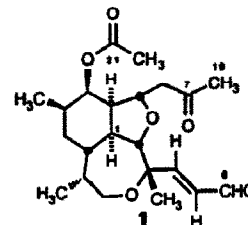
00-664 Warszawa, Noakowskiego 3, Poland

Buckminsterfullerene (C_{60}) is reduced by zinc and acid to a mixture of C_{60}H_2 , C_{60}H_4 , and other more highly reduced fullerenes.**THE FIRST SECO-ASBESTININ: A NOVEL CLASS OF DITERPENE FROM THE CARIBBEAN GORGONIAN****BRIAREUM ASBESTINUM (PALLAS).**

Abimael D. Rodríguez*, Oscar M. Cobar and Noralyz Martínez

Department of Chemistry, University of Puerto Rico, P.O. Box 23346

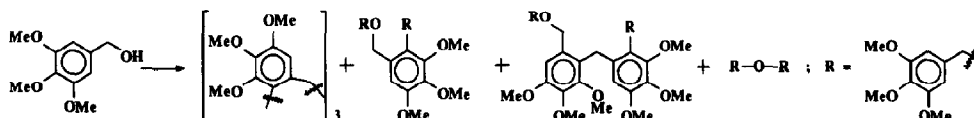
San Juan, Puerto Rico 00931-3346

Compound **1**, the first representative of a novel class of ether-cyclized asbestinane diterpenes known as *seco*-asbestinins, was found in the lipid soluble extract of the Caribbean gorgonian *Briareum asbestinum*. The structure of **1** was confirmed by partial synthesis.

Cyclic and Linear Oligomerization Reaction of 3,4,5-Trimethoxybenzyl Alcohol with a Bentonite-Clay. Manuel Salmón*, Nieves Zavala, Mariano Martínez,

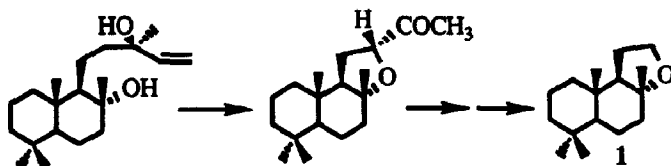
René Miranda, Raymundo Cruz, Jorge Cárdenas, Rubén Gavifio and Armando Cabrera. Instituto de Química de la Universidad Nacional Autónoma de México, Ciudad Universitaria, Circuito Exterior, Coyoacán 04510 México D.F.

Abstract. The catalytic induction and structures of cyclic and linear oligomers from 3,4,5-Trimethoxybenzyl alcohol with a bentonite clay as catalyst are discussed.



An Efficient Synthesis of (-)-Dodecahydro-3a,6,6,9a-tetramethylnaphtho[2,1-b]furan from (-)-Sclareol.

Derek H.R. Barton,* Shyamal I. Parekh, Dennis K. Taylor and Chi-lam Tse
Department of Chemistry, Texas A&M University, College Station, TX 77843-3255, USA.

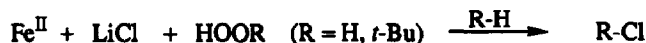


The title compound 1 was prepared in 74% overall yield over 3 steps from (-)-Sclareol

The Fe^{II}-Fe^{IV} and Fe^{III}-Fe^V Manifolds in an Expanded World of Gif Chemistry

Christophe Bardin,* Derek H. R. Barton,* Bin Hu, Roy Rojas-Wahl and Dennis K. Taylor.

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



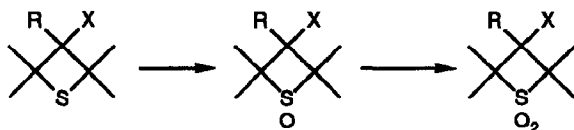
The species responsible for hydrocarbon activation are identified.

Diastereoselective Oxidation of Substituted Thietanes and Stereoselective Oxidation of Their Sulfoxides

Richard S. Glass*, Waheguru Pal Singh, Department of Chemistry, The University of Arizona, Tucson, AZ 85721 and

Bruce A. Hay, Pfizer Central Research, Groton, CT 06340

Trans-3-substituted-thietane-1-oxides are more rapidly oxidized by peracid to sulfones than the corresponding cis-isomer.

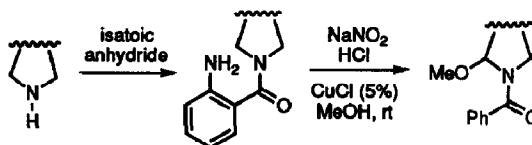


A CONVENIENT SYNTHETIC METHOD FOR AMIDE OXIDATION

Tetrahedron Letters, 1994, 35, 5813

Gyoonhee Han, Matthias C. McIntosh, and Steven M. Weinreb*, Department of Chemistry, The Pennsylvania State University, University Park, PA 16802 USA

Diazotization of α -aminobenzamides in methanol in the presence of a catalytic amount of CuCl affords α -methoxybenzamides in good yields.

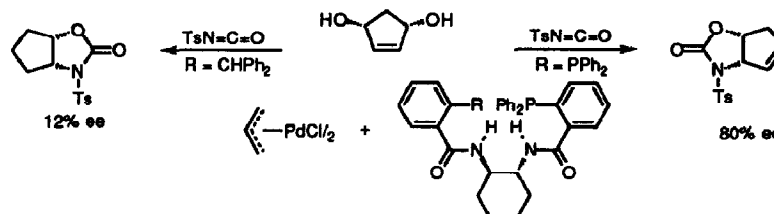


On the Nature of the Asymmetric Induction in a Palladium Catalyzed Allylic Alkylation

Tetrahedron Letters, 1994, 35, 5817

Barry M. Trost, Bernhard Breit and Michael G. Organ
Department of Chemistry, Stanford University, Stanford, California 94305-5080

A probe for bidentate coordination in the enantiodiscriminating step even though it involves a 13-membered ring is developed for an allylic alkylation.

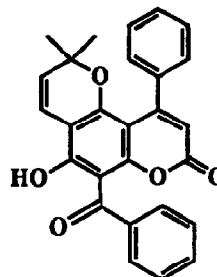


CALANONE, A NOVEL COUMARIN FROM *Calophyllum teysmannii*

Tetrahedron Letters, 1994, 35, 5821

Kirk R. Gustafson, Heidi R. Bokesch, Richard W. Fuller, John H. Cardellina II, Marian R. Kadushin, Djaja D. Soejarto and Michael R. Boyd; Laboratory of Drug Discovery Research and Development, Developmental Therapeutics Program, Division of Cancer Treatment, National Cancer Institute, Bldg. 1052, Rm. 121, Frederick, MD 21702-1201 USA

During a survey of latex samples of *Calophyllum teysmannii* for anti-HIV coumarins (calanolide A, costatolide), calanone (5), an unprecedented benzoyl substituted coumarin, was isolated and its structure determined by spectroscopic analyses. The known soulattrolide (3), and the related ketone 4 were also isolated. Soulattrolide inhibited the cytopathic effect of in vitro HIV-1 infection, while calanone (5) and the ketone 4 were inactive.

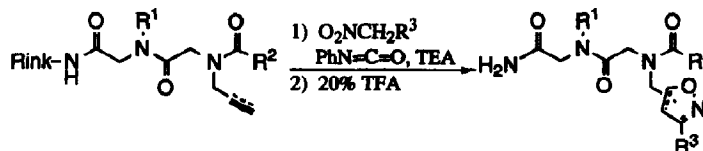


Post-Modification of Peptoid Side Chains: [3+2]

Cycloaddition of Nitrile Oxides with Alkenes and Alkynes on the Solid-Phase.

Yazhong Pei* and Walter H. Moos, Chiron Corporation, 4560 Horton Street, Emeryville, CA 94608

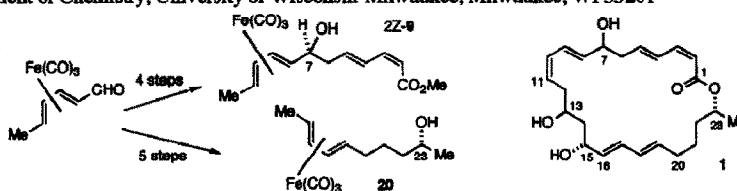
A series of isoxazoles and isoxazolines were synthesized on solid-phase through [3+2] cycloaddition reactions of alkynes and alkenes with highly reactive nitrile oxides.



Model Studies toward the Synthesis of Macrolactin A: Organoiron Methodology for Introduction of the C1-C11 and C16-C24 Segments

William A. Donaldson,* Peter T. Bell, Zhi Wang, and Dennis W. Bennett, Department of Chemistry, Marquette University, Milwaukee, WI 53233, and Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI 53201

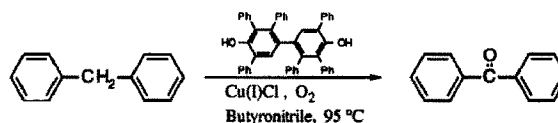
Preparation of $\text{Fe}(\text{CO})_3$ complexed models for the C1-C11 and the C16-C24 segments (2Z-9 and 20) of macrolactin A (1) has been accomplished from (sorbaldehyde)- $\text{Fe}(\text{CO})_3$ in 4 steps and 5 steps respectively.



A NEW CATALYTIC OXIDATION OF DIARYLMETHANES MEDIATED BY

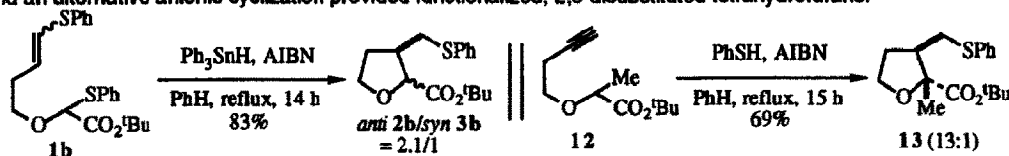
2,2',3,3',5,5'-HEXAPHENYL-(1,1'-BIPHENYL)-4,4'-DIOXYL. Gennaro Barbiero, Whan-Gi Kim, and Allan S. Hay*, Department of Chemistry, McGill University, 801 Sherbrooke St. W., Montréal, Québec, Canada H3A2K6

Diarylmethanes are oxidized in a catalytic oxidation, with oxygen in the presence of a CuCl catalyst in butyronitrile solvent, mediated by 2,2',3,3',5,5'-hexaphenyl-(1,1'-biphenyl)-4,4'-dioxyl generated *in situ* from the biphenol.



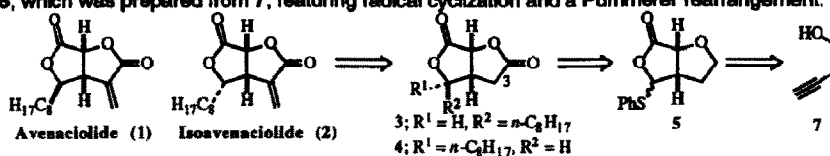
2,3-Disubstituted Tetrahydrofuran Synthesis via Radical and Anionic Cyclization

Steven D. Burke* and Kyung Woon Jung
Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706, USA
Radical cyclizations by C-S bond homolysis (e.g., 1b) as well as via 1,5-hydrogen atom transfer (e.g., 12) and an alternative anionic cyclization provided functionalized, 2,3-disubstituted tetrahydrofurans.



A Short Route to Avenaciolide & Isoavenaciolide via Radical Cyclization

Steven D. Burke,* Kyung Woon Jung and Roman E. Perri
Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706, USA
For the formal total syntheses of avenaciolide (1) and isoavenaciolide (2), 3-normethylene analogs 3 and 4 were made from 5, which was prepared from 7, featuring radical cyclization and a Pummerer rearrangement.



AN INVESTIGATION INTO A PALLADIUM CATALYZED HYDROSILYLATION OF OLEFINS.

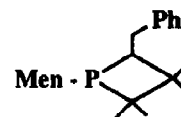
Tetrahedron Letters, 1994, 35, 5861

A. MARINETTI

Laboratoire "Hétéroatomes et Coordination", associé au CNRS
DCPH, Ecole Polytechnique, 91128 Palaiseau Cedex, France

The palladium catalyzed hydrosilylations of cyclopentadiene and styrene in the presence of the phosphetane **I** are considered.

A 1:1 phosphine:palladium ratio affords the more suitable catalyst precursor. An unprecedented inhibitory effect of a second phosphine ligand is observed.



I; P(R) C(S) Men =l-menthyl

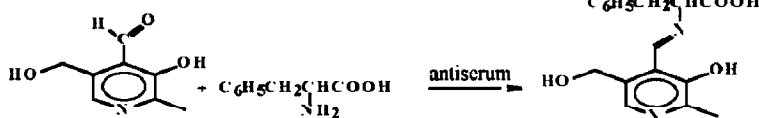
POLYCLONAL ANTIBODY-CATALYSED ALDIMINE FORMATION

Tetrahedron Letters, 1994, 35, 5865

A. Tubul^a, P. Brun^a, R. Michel^b, B. Gharib^b and M. De Reggi^b

^aLaboratoire de Synthèse Organique Sélective, URA 1320, Faculté des Sciences de Luminy, 163 Avenue de Luminy, case 901, F-13288, Marseille Cedex 9, France. ^bINSERM U 399, 27 Boulevard J. Moulin, F-13385, Marseille Cedex 5, France.

An antiserum catalyzed imine formation between pyridoxal and phenylalanine is described under conditions in which the uncatalyzed reaction is not observed. This antibodies preparation presents a very good specificity for the pyridoxal structure

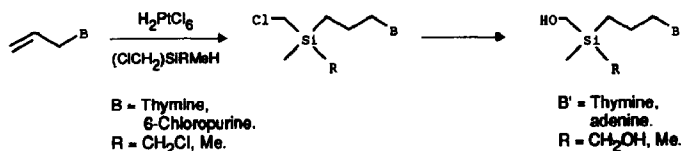


SYNTHESIS OF SILICON PRECURSORS OF MODIFIED OLIGONUCLEOTIDES

Laurent Latague¹, Jacques Thibon¹, Christel Guillot¹, Serge Moreau² and Gérard Déhéris^{1*}

¹: Laboratoire de Chimie Bioorganique, Université Bordeaux 2, 146 Rue Léo Saignat, F-33076 Bordeaux, France; ²: Laboratoire de Biophysique Moléculaire, INSERM U386, Université Bordeaux 2, 146 Rue Léo Saignat, F-33076 Bordeaux, France.

The synthesis of four silicon nucleoside analogues for use as modified antisense oligonucleotide precursors is described



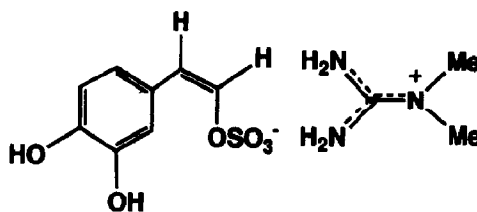
Tetrahedron Letters, 1994, 35, 5869

Narains: N, N-Dimethylguanidinium Styryl Sulfates, Metamorphosis Inducers of Ascidian Larvae from a Marine Sponge *Jaspis* sp.

Tetrahedron Letters, 1994, 35, 5873

Sachiko Tsukamoto, Haruko Kato, Hiroshi Hirota, and Nobuhiro Fusetani*

Fusetani Biofouling Project, Exploratory Research for Advanced Technology (ERATO), Research Development Corporation of Japan (JRDC), c/o Niigata Engineering Co., Ltd., Isogo-ku, Yokohama 235, Japan



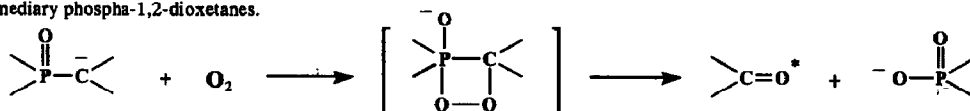
(Z)-Narain

(E)- and (Z)-Narains were isolated, and their structures were determined.

**CHEMILUMINESCENT OXIDATION OF PHOSPHONATES:
PHOSPHA-1,2-DIOXETANES AS POSSIBLE INTERMEDIATES.**

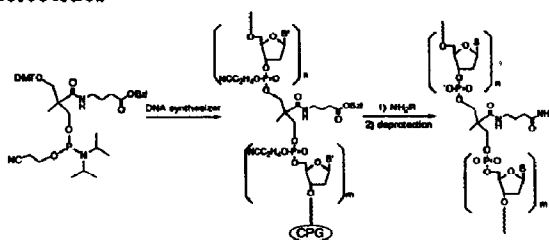
Jiro Motoyoshiya,* Yasuhiro Isono, Satoko Hayashi, Yasue Kanzaki, and Sadao Hayashi,
Department of Materials Creation Chemistry, Faculty of Textile Science & Technology,
Shinshu University, Ueda, Nagano 386, Japan

Chemiluminescence observed in the oxidation of phosphonate carbanions gives a strong proof of intermediary phospha-1,2-dioxetanes.

**A Novel Phosphoramidite for the Site-Selective
Introduction of Functional Groups into Oligonucleotides
via Versatile Tethers**

Masayuki Endo, Yoshitaka Saga, and Makoto Komiyama*
Department of Chemistry and Biotechnology, Faculty of
Engineering, University of Tokyo, Hongo, Bunkyo-ku,
Tokyo, 113, Japan

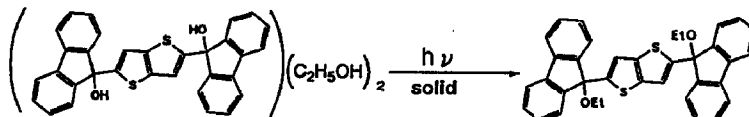
A phosphoramidite monomer, which has a benzyl ester moiety in the side chain and is useful for the site-selective introduction of functional groups into oligonucleotides via various tethers, has been synthesized.

**Solid-State Photosolvolytic of Clathrate Crystals Including
Ethanol as a Guest Component.**

Naoto Hayashi, Yasuhiro Mazaki and Keiji Kobayashi*

Department of Chemistry, College of Arts and Sciences,
The University of Tokyo, Komaba, Meguro-ku, Tokyo 153 Japan

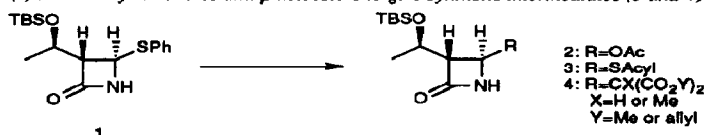
Photosubstitution to the host compound
by guest ethanol was achieved in the
clathrate crystals.

**Copper-Assisted Substitution Reactions for Phenylthio Group
of a 4-Phenylthioazetidinone Derivative**

Tetsuo Shimamoto, Hidekazu Inoue, Takuro Yoshida, Rie Tanaka,
Takashi Nakatsuka and Masaji Ishiguro*

Suntory Institute for Biomedical Research, Shimamoto, Osaka 618, Japan

The phenylthio group of 4-phenylthioazetidinone (1) was readily substituted with copper(I) salts of carboxylates, thiocarboxylates, and copper(I) enolates of malonates and β -ketoesters to give synthetic intermediates (3 and 4) for penem and carbapenem antibiotics.

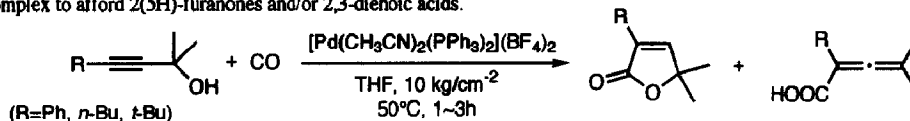


Carbonylation of Tertiary Propargylic Alcohols Catalyzed by a Cationic Palladium(II) Complex: Synthesis of 2(5H)-Furanones

Koichi Matsushita, Tsunenori Komori, Shuichi Oi and Yoshio Inoue*

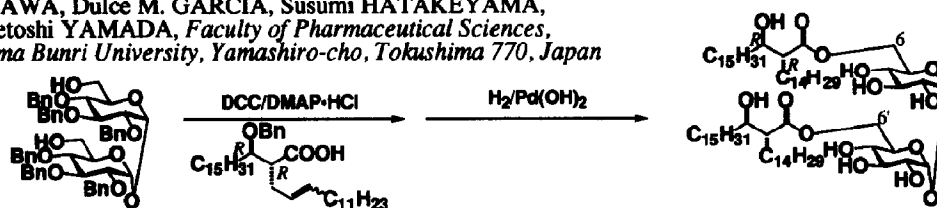
Department of Engineering Science, Faculty of Engineering, Tohoku University, Aramaki Aoba, Aoba-ku, Sendai 980-77 (Japan)

Tertiary propargylic alcohols reacted with carbon monoxide in the presence of catalytic quantities of a cationic palladium(II) complex to afford 2(5H)-furanones and/or 2,3-dienoic acids.



SYNTHESES AND CHARACTERIZATION OF FOUR DIASTEREOMERS OF TREHALOSE-6, 6'-DICORYNYLMYCOLATES (TD BH32)

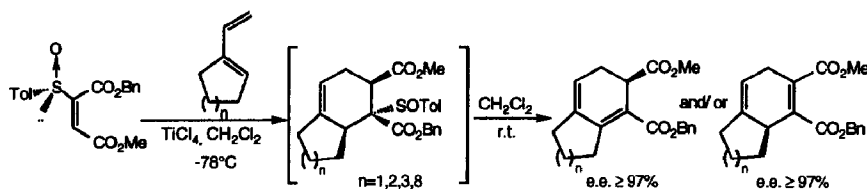
Mugio NISHIZAWA,* Ryutarō MINAGAWA, Dulce M. GARCIA, Susumi HATAKEYAMA, and Hidetoshi YAMADA, Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro-cho, Tokushima 770, Japan



A HIGHLY ENANTIOSELECTIVE APPROACH TO FUNCTIONALIZED [4.n.0] BICYCLIC COMPOUNDS.

Juan C. Carretero,* José L. García Ruano* and Luisa M. Martín Cabrejas

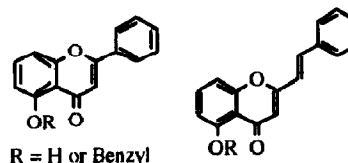
Departamento de Química (C-1), Universidad Autónoma, Cantoblanco, 28049-Madrid, Spain



5-HYDROXY-2-(PHENYL OR STYRYL)CHROMONES: ONE-POT SYNTHESIS AND C-6, C-8 ¹³C NMR ASSIGNMENTS

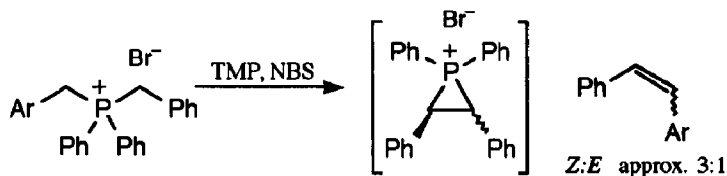
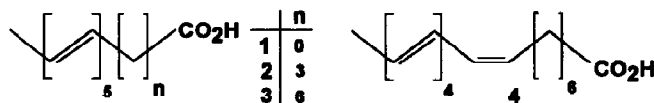
Artur M.S. Silva, Diana C.G.A. Pinto and José A.S. Cavaletro*
Department of Chemistry, University of Aveiro, 3800 Aveiro, Portugal

An efficient one-pot synthesis of 5-hydroxy-2-(phenyl or styryl)chromones is described. For their C-6, C-8 centres it is shown that the literature chemical shift values must be interchanged.



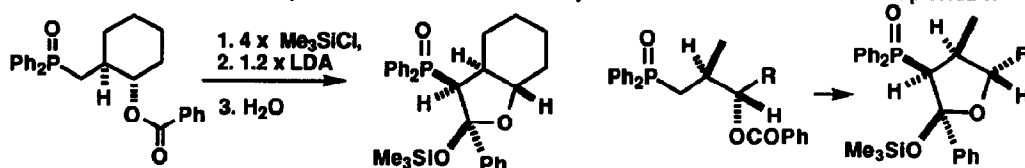
RAMBERG BÄCKLUND TYPE REACTIONS**OF PHOSPHONIUM SALTS.** Nicholas J. Lawrence*

and Faiz Muhammad, Dept. of Chemistry, UMIST, PO Box 88, Manchester, M60 1QD, UK.

Tetrahedron Letters, 1994, 35, 5903Treatment of benzylphosphonium salts with *N*-Bromosuccinimide and 2,2,6,6-tetramethylpiperidine gives *cis* alkenes.**A GENERAL AND PRACTICAL SYNTHESIS OF LINEAR CONJUGATED PENTAENOIC ACIDS**André A. Souto,^{a,b} A. Ulises Acuña^b and Francisco Amat-Guerri^{a*}^aInstituto de Química Orgánica, C.S.I.C., Juan de la Cierva 3, 28006 Madrid, Spain and^bInstituto de Química Física Rocasolano, C.S.I.C., Serrano 119, 28006 Madrid, Spain*Tetrahedron Letters*, 1994, 35, 5907Acids 1 to 4 have been prepared by Wittig olefination of *all(E)*-2,4,6,8-decatetraenal with the appropriate ylide.**STEREoselective ACYL TRANSFER REACTIONS CONTROLLED BY THE DIPHENYLPHOSPHINOYL GROUP: X-RAY STRUCTURES OF STABLE CRYSTALLINE SILYLATED TETRAHEDRAL INTERMEDIATES,** Neil Feeder, Gordon Hutton

and Stuart Warren, University Chemical Laboratory, Lensfield Road, Cambridge, CB2 1EW England

Elucidation of the stereochemistry and mechanism of the O to C acyl transfer reaction leads to an efficient procedure.

Tetrahedron Letters, 1994, 35, 5911**FUNCTIONAL GROUP REDUCTIONS WITH LEWIS BASE ADDUCTS OF****GALLANE.** Colin L. Raston*, Anna F. H. Siu, Carolyn J. Tranter and David J. Young*

Faculty of Science and Technology, Griffith University, Nathan 4111, Brisbane, Australia.

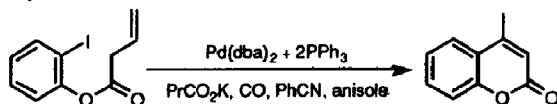
Tetrahedron Letters, 1994, 35, 5915

INTRAMOLECULAR CYCLIZATION OF *ORTHO*-IODOPHENYL

3-BUTENOATE TO 4-METHYLCOUMARIN: CATALYSIS BY PALLADIUM COMPLEXES

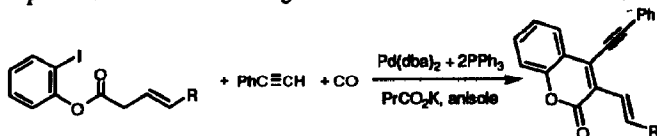
Marta Catellani, Gian Paolo Chiusoli, Maria Chiara Fagnola and Giovanna Solari

Dipartimento di Chimica Organica e Industriale dell'Università, Viale delle Scienze, I-43100 Parma, Italy

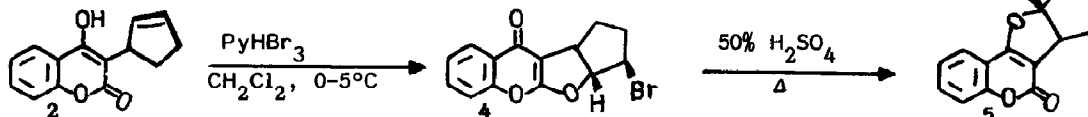
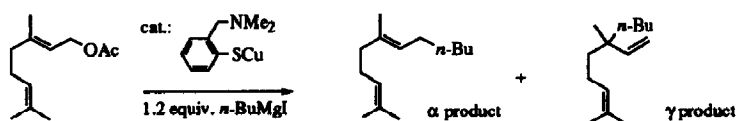
A Pd catalyst causes *o*-iodoaryl 3-butenyl ester to cyclize to 4-methylcoumarin in the presence of CO and benzonitrile.A NEW PALLADIUM-CATALYZED SYNTHESIS OF 3,4-DISUBSTITUTED COUMARINS FROM 3-ALKENOATES OF *ORTHO*-IODOPHENOL, PHENYLACETYLENE AND CARBON MONOXIDE

Marta Catellani, Gian Paolo Chiusoli, Maria Chiara Fagnola and Giovanna Solari

Dipartimento di Chimica Organica e Industriale dell'Università, Viale delle Scienze, I-43100 Parma, Italy

*o*-Iodoaryl-3-alkenoates react with phenylacetylene and CO in the presence of a Pd catalyst to give new coumarins.

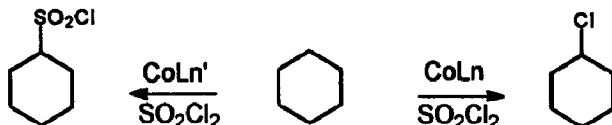
AN UNUSUAL CHROMONE FORMATION, AND ITS REARRANGEMENT TO A COUMARIN

Krishna C. Majumdar^a, Prabir K. Choudhury^{a+} and Munirathinam Nethaji^b^aChemistry Department, University of Kalyani, Kalyani-741235, West Bengal, INDIA^bI.P.C. Department, Indian Institute of Science, Bangalore 560012, INDIATHE USE OF *ORTHO*-CHELATING ARENETHIOLATE NON-TRANSFERABLE GROUPS IN THE COPPER(I) CATALYZED SELECTIVE α OR γ SUBSTITUTION OF ACYCLIC ALLYLIC SUBSTRATES WITH GRIGNARD REAGENTS.M. van Klaveren,^a E. S. M. Persson,^b D. M. Grove,^a J. E. Bäckvall^b and G. van Koten^a^a Utrecht University, Debye Institute, Padualaan 8, 3584 CH Utrecht, The Netherlands^b University of Uppsala, Box 531, S-751 21 Uppsala, SwedenEt₂O, 0°C, 120 min.; α : γ = 0 : 100THF, -30°C, 5 min.; α : γ = 100 : 0

COBALT(II)-PORPHYRIN CATALYSED SELECTIVE FUNCTIONALIZATION OF ALKANES WITH SULFURYLCHLORIDE: A REMARKABLE SUBSTITUENT EFFECT

Tetrahedron Letters, 1994, 35, 5935

Vibha Khanna, Pitchiah Tamilselvan, Swinder Jeet Singh Kalra and Javed Iqbal*
Department of Chemistry, Indian Institute of Technology, Kanpur 208 016, INDIA

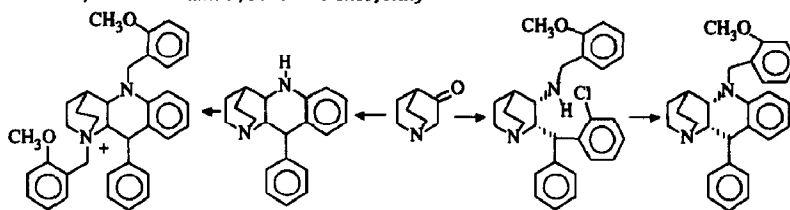


Synthesis of a Benzo[b]-1,5-naphthyridine Derivative as a Potential Constrained NK-1-Receptor Antagonist

Giovanni Viti,* Danilo Giannotti, Rossano Nannicini, Giuseppe Balacco, Vittorio Pestellini.
Chemical Research Department, Menarini S.r.l., Via Sette Santi 3, 50131 Firenze, Italy

Tetrahedron Letters, 1994, 35, 5939

A short synthesis of a cyclic constrained analogue of the potent substance P antagonist (\pm) CP-96345, containing the 1,4-ethano-benzo[b]-1,5-naphthyridine system, is described

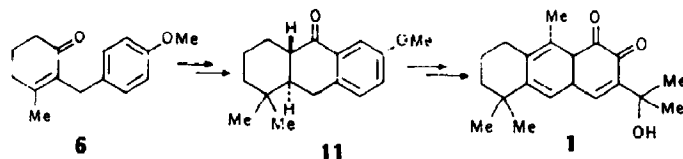


FIRST TOTAL SYNTHESIS OF THE LINEAR ABIETANE DITERPENOID ORTHOQUINONE UMBROSONE

K. Ghosh and U.R. Ghatak*

Department of Organic Chemistry
Indian Association for the Cultivation
of Science, Jadavpur, Calcutta-700032,
India.

Tetrahedron Letters, 1994, 35, 5943

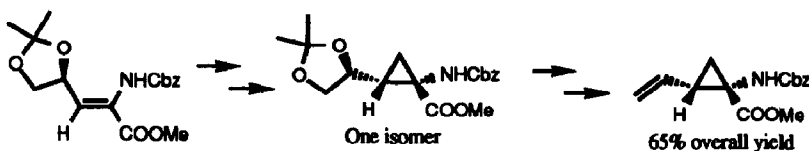


A convergent synthesis of the linear diterpenoid orthoquinone, umbrosonone **1** is described from **6** through the ketone **11**

Highly Efficient and Stereocontrolled Synthetic Route to Enantiopure ACC Derivatives. Synthesis of (+)-N-Benzyloxycarbonyl- γ,δ -dehydro-*allo*-Coronamic Acid Methyl Ester.

José M. Jiménez, Ramon Casas, and Rosa M. Ortuño.*
Departament de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain.

Tetrahedron Letters, 1994, 35, 5945

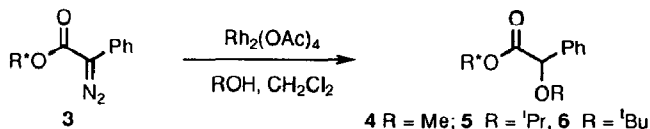


DIASTEREOSELECTIVITY IN THE O-H INSERTION REACTIONS OF RHODIUM CARBENOID DERIVED FROM PHENYLDIAZOACETATES OF HOMOCHIRAL ALCOHOLS

E. Aller, G. G. Cox, D. J. Miller and C. J. Moody

Department of Chemistry, Loughborough University of Technology, Loughborough, Leicestershire LE11 3TU, U.K.

Rh(II) catalysed decomposition of the phenyl-diazoacetates **3** (R^* = chiral group) in the presence of alcohols results in O-H insertion to give the products **4-6** in varying diastereoselectivity (5-53%).



NEUTRAL DITOPIC RECEPTORS FOR ADENOSINE MONOPHOSPHATE.

Stephen M. Lacy, Dmitry M. Rudkevich, Willem Verboom, and David N. Reinhoudt,* Laboratory of Organic Chemistry, University of Twente, P. O. Box 217, 7500 AE Enschede, The Netherlands.

Novel neutral ditopic receptors for AMP consisting of an immobilised Lewis acidic centre covalently coupled to thymine are described.

