

GRAPHICAL ABSTRACTS

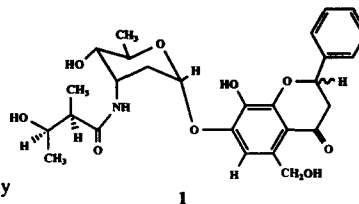
ACTINOFLAVOSIDE, A NOVEL FLAVONOID-LIKE GLYCOSIDE PRODUCED BY A MARINE BACTERIUM OF THE GENUS *STREPTOMYCES*.

Zhi-Dong Jiang, Paul R. Jensen and William Fenical*

Center for Marine Biotechnology and Biomedicine, Scripps Institution of Oceanography
University of California at San Diego, La Jolla, CA 92093-0236

The isolation and structure determination of actinoflavoside (**1**), a flavonoid-like glycoside produced by a marine bacterium, is reported. Actinoflavoside is composed of an unprecedented 5-hydroxymethyl-7,8-dihydroxyflavone coupled to the rare aminosugar ristosamine. The ristosamine component is further acylated with *erythro*-2-methyl-3-hydroxy butyric acid to form the corresponding amide.

Tetrahedron Letters, 1997, 38, 5065

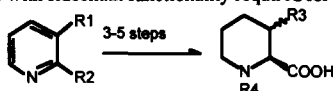


1

A FACILE SYNTHESIS OF 3-SUBSTITUTED PIPECOLIC ACIDS, CHIMERIC AMINO ACIDS. Gergely M. Makara, Garland R. Marshall.*

Department of Molecular Biology and Pharmacology, School of Medicine, Washington University at St. Louis, St. Louis, MO 63110, U.S.A.

A concise synthetic route to pipercolic acids substituted at the 3-position with polar groups and suitably protected for solid phase peptide synthesis has been developed. These chimeric amino acids combine the conformational constraints of the cyclic backbone with sidechain functionality required for molecular recognition of reverse turns in biological systems.



R3= SCH₂Ar, OtBu, COOBz

Tetrahedron Letters, 1997, 38, 5069

ORGANOZIRCONOCENE-MEDIATED POLYENE SYNTHESIS: PREPARATION OF ASUKAMYCIN AND MANUMYCIN A SIDE CHAINS

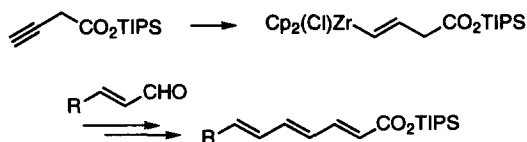
P. Wipt and P. D. G. Coish

Department of Chemistry

University of Pittsburgh

Pittsburgh, Pennsylvania 15260, U.S.A.

Hydrozirconation of a functionalized alkyne followed by transmetalation and 1,2-addition to α,β -unsaturated aldehydes was used for trienoate synthesis.



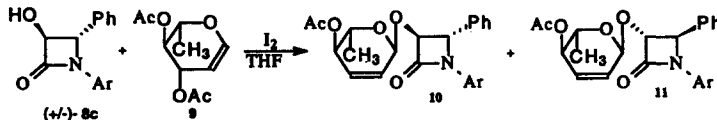
Tetrahedron Letters, 1997, 38, 5073

Enantiopure α -Hydroxy- β -Lactams via Stereospecific Glycosylation

Bimal K. Basak, Maghar S. Manhas and Ajay K. Bose

Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, New Jersey 07030, USA

Both enantiomers of a trans 4-aryl-3-hydroxy-2-azetidinone have been obtained via stereospecific glycosylation with rhamnal diacetate in presence of iodine (catalyst).

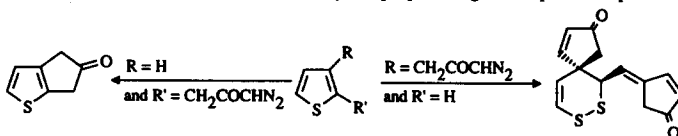


Tetrahedron Letters, 1997, 38, 5077

Tetrahedron Letters, 1997, 38, 5081

Intramolecular Carbenoid Insertions Into Thiophene: Reactions of 1-Diazo-3-(2-Thienyl)-2-Propanone and 1-Diazo-3-(3-Thienyl)-2-Propanone. Christopher S. Frampton, Roche Products Ltd., 40 Broadwater Road, Welwyn Garden City, Herts AL7 3AY, U.K. David L. Pole, Department of Chemistry, McMaster University, Hamilton, Ontario, Canada, L8S 4M1. Kelvin Yong and Alfredo Capretta*, Department of Chemistry, Brock University, St. Catharines, Ontario, Canada L2S 3A1.

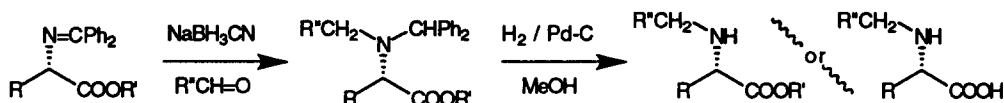
Treatment of 1-diazo-3-(2-thienyl)-2-propanone with catalytic rhodium (II) acetate yields 5,6-dihydro-4*H*-cyclopenta[*b*]thiophen-5-one while, under the same conditions, the isomeric 1-diazo-3-(3-thienyl)-2-propanone gives a spiro-disulphide.



Tetrahedron Letters, 1997, 38, 5085

General Method for the Synthesis of N-Methyl Amino Acids and N-Alkyl Amino Esters from O'Donnell's Schiff Bases.

Jason J. Chruma, Dalibor Sames and Robin Polt*
Chemistry Department, University of Arizona, Tucson, AZ 85721

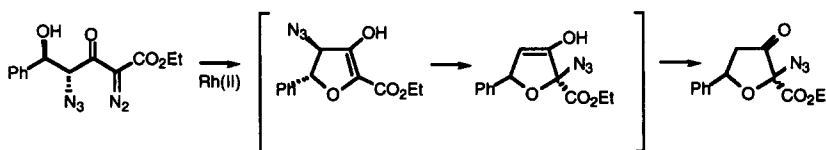


INTRAMOLECULAR O-H INSERTION REACTION OF AZIDO SUBSTITUTED DIAZOESTERS AND ITS RELEVANCE TO THE MECHANISM OF THE ALLYLIC AZIDE REARRANGMENT

Albert Padwa* and Marcus M. Sá

Department of Chemistry, Emory University, Atlanta, GA 30322

The rhodium(II)-catalyzed decomposition of γ -azido- δ -hydroxy diazoesters affords 3(2*H*)-furanones derived by a sequential O-H insertion followed by a concerted 3,3-sigmatropic shift of the azido group.

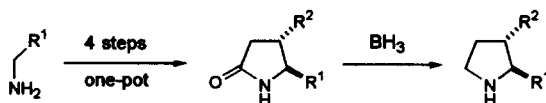


Tetrahedron Letters, 1997, 38, 5091

A Practical One-Pot Synthesis of *trans*-4,5-Disubstituted 2-Pyrrolidinones and The Related Pyrrolidines

Nathan K. Yee

Department of Chemical Development, Boehringer Ingelheim Pharmaceuticals Inc.
900 Ridgebury Rd, Ridgefield, CT 06877-0368 USA

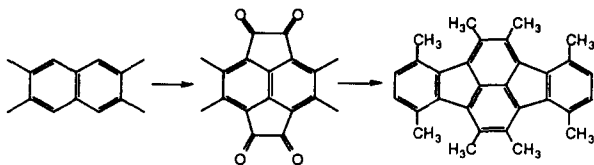


"FULLERENE FRAGMENTS:" SYNTHESIS AND CRYSTAL STRUCTURE DETERMINATION OF 1,4,5,6,7,10,11,12-OCTAMETHYLINDENO[1,2,3-CD]FLUORANTHENE.

Tetrahedron Letters, 1997, 38, 5095

Andrzej Sygula, Frank R. Fronczek and Peter W. Rabideau,* Department of Chemistry, Louisiana State University, Baton Rouge, LA 70803, USA

Synthesis of the title compound is accomplished in 8 steps. X-ray crystal structure and AM1 calculations included.



RAPID IN-PLATE GENERATION OF BENZIMIDAZOLE LIBRARIES AND AMIDE FORMATION USING EEDQ, James B. Thomas, Michael J. Fall, Julie B. Cooper, Jason P. Burgess and F. Ivy Carroll,* Research Triangle Institute, Post Office Box 12194, Research Triangle Park, NC 27709

Tetrahedron Letters, 1997, 38, 5099

A general method for the expedient production of a benzimidazole library in 96-well plates has been demonstrated utilizing solution-phase techniques.

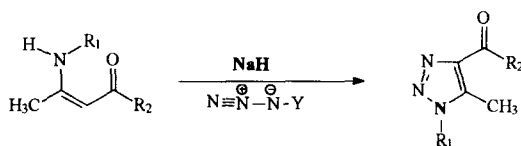


A New and Efficient Procedure for Preparing 1,2,3-Triazoles

Tetrahedron Letters, 1997, 38, 5103

Gilberto A. Romeiro, Leticia O.R. Pereira; Maria Cecilia B.V. de Souza; Vitor F. Ferreira*; Universidade Federal Fluminense; Departamento de Química Orgânica; Campus do Valonguinho S/Nº; Niterói, CEP 24.020-150, Rio de Janeiro, Brasil.; Anna C. Cunha, Núcleo de Pesquisa de Produtos Naturais, Universidade Federal do Rio de Janeiro; CCS bloco H, CEP 21.941-970, RJ, Brasil.

1,2,3-Triazoles are readily accessible in moderate to good yields by a diazo transfer reaction with β -amino- α,β -unsaturated ketones or esters and tosyl or mesyl azide reagent.

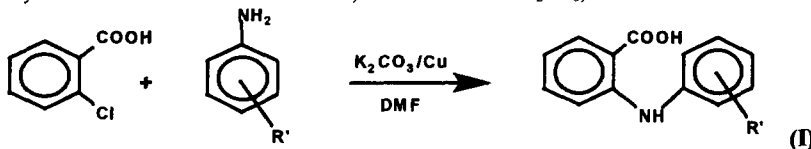


USE OF N,N-DIMETHYLFORMAMIDE AS SOLVENT IN THE SYNTHESIS OF N-PHENYLANTHRANILIC ACIDS

Tetrahedron Letters, 1997, 38, 5107

Rolando F. Pellón*, Ramón Carrasco, Tania Márquez and Taimirys Mamposo. Centro de Química Farmacéutica, P.O.Box 16042 Havana, Cuba

Synthesis of N-phenylanthranilic acids in DMF as solvent, without excess of K_2CO_3 , and in shorter reaction times.

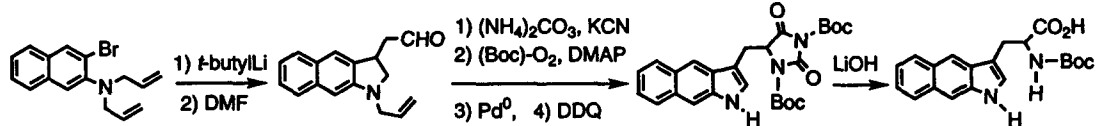


Tetrahedron Letters, 1997, 38, 5111

BENZ[*f*]TRYPTOPHAN, A BATHOCHROMIC ANALOG OF TRYPTOPHAN, SYNTHESIS OF ITS N- α -*t*-BOC DERIVATIVE.

T. Scott Yokum, Parithosh K. Tungaturthi, and Mark L. McLaughlin,* Department of Chemistry, Louisiana State University, Baton Rouge, Louisiana 70803-1804 USA

The title molecule is synthesized via novel anionic cyclization, hydantoin formation, and mild hydrolysis steps.



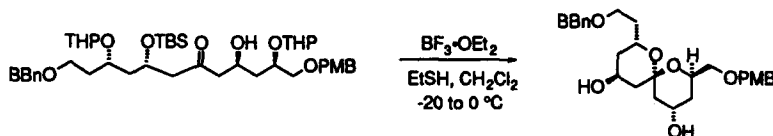
Tetrahedron Letters, 1997, 38, 5115

A MODULAR APPROACH TO MARINE MACROLIDE CONSTRUCTION. 1. AN ENANTIOCONTROLLED ROUTE TO THE C1-C12 (AB) SPIROACETAL SECTOR

Leo A. Paquette* and Dmitry Zuev

Evans Chemical Laboratories, The Ohio State University, Columbus, Ohio 43210

The convergent step in construction of the title spiroacetal is illustrated.



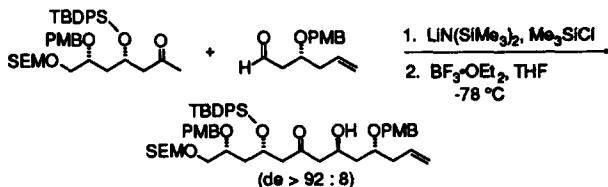
Tetrahedron Letters, 1997, 38, 5119

A MODULAR APPROACH TO MARINE MACROLIDE CONSTRUCTION. 2. CONCISE STEREOCONTROLLED SYNTHESIS OF THE C17-C28 (CD) SPIROACETAL COMPONENT

Leo A. Paquette* and Alain Braun

Evans Chemical Laboratories, The Ohio State University, Columbus, Ohio 43210

The key 1,3-asymmetric step involved in the enantioselective construction of the title spiroacetal is shown.

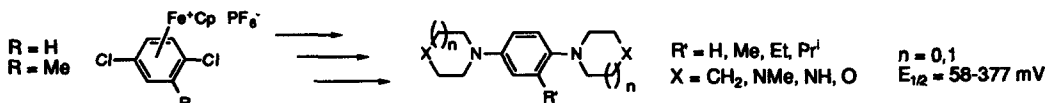


Tetrahedron Letters, 1997, 38, 5123

Manipulation of the Reduction Potentials of Wurster's Blue Derivatives via Steric and Conformational Effects

Anthony J. Pearson* and Ann M. Gelommini, Department of Chemistry, Case Western Reserve University, Cleveland, OH 44106 USA

[*h*⁵-cyclopentadienyliron]⁺-mediated S_NAr reactions and benzylic alkylations produce a series of tetra-alkyl-*p*-phenylenediamine derivatives where the first redox couple may be varied over a range of 320 mV.

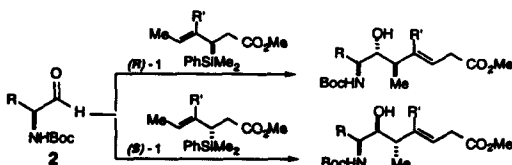


**Double Stereodifferentiating Crotylation
Reactions with α -Amino Aldehydes: Asymmetric
Synthesis of Vicinal Amino Alcohol Synthons**

James S. Panek* and Ping Liu

Department of Chemistry, Metcalf Center for Science and
Engineering, 590 Commonwealth Avenue,
Boston University, Boston, MA 02215

The sense and level of 1,2-asymmetric induction have been
evaluated in the $\text{BF}_3 \cdot \text{OEt}_2$ promoted addition of (*E*)-
crotylsilanes (*R*)-1 and (*S*)-1 to α -amino aldehydes **2a**
through **2d**.



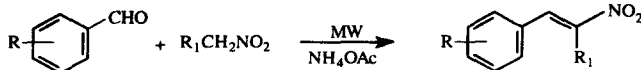
**MICROWAVE-ASSISTED HENRY REACTION:
SOLVENTLESS SYNTHESIS OF CONJUGATED NITROALKENES**

Rajender S. Varma,*^{1,2} Rajender Dahiya¹ and Sudhir Kumar²

¹ Department of Chemistry and Texas Regional Institute for Environmental Studies (TRIES),
Sam Houston State University, Huntsville, Texas 77341-2117 and

² Houston Advanced Research Center (HARC), 4800 Research Forest Drive, The Woodlands, Texas 77381, U.S.A.

In a solventless system and under microwave irradiation, nitroalkanes react with arylaldehydes in the presence of a catalytic
amount of ammonium acetate to afford conjugated nitroalkenes without the isolation of intermediary β -nitro alcohols.

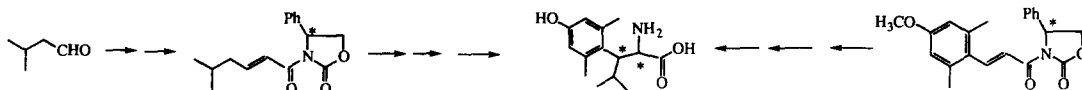


**TOTAL ASYMMETRIC SYNTHESIS OF HIGHLY CONSTRAINED
AMINO ACIDS β -ISOPROPYL-2',6'-DIMETHYL TYROSINES**

Yinglin Han, Subo Liao, Wei Qiu, Chaozhong Cai and Victor J. Hruby *

Department of Chemistry, The University of Arizona, Tucson, Arizona 85721

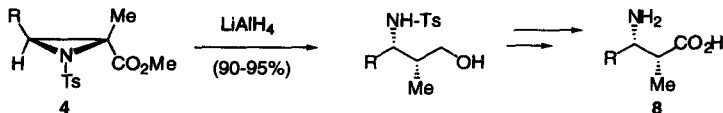
All four stereoisomers of the highly constrained aromatic α -amino acid β -isopropyl-2',6'-dimethyltyrosine have been asymmetrically
synthesized on a large scale. The reactions generally proceeded in good stereoselectivities (75-95% ee/de) and yields (70-90%).



**Aziridine 2-Carboxylate Ester Mediated Asymmetric Synthesis
of α -Alkyl β -Amino Acids**

Franklin A. Davis,* G. Venkat Reddy and Chang-Hsing Liang, Department of Chemistry, Temple University,
Philadelphia, PA 19122.

The highly efficient asymmetric synthesis of α -methyl β -amino acids **8** via the stereoselective reductive ring
opening of *N*-tosylaziridine 2-carboxylate esters **4** is described.



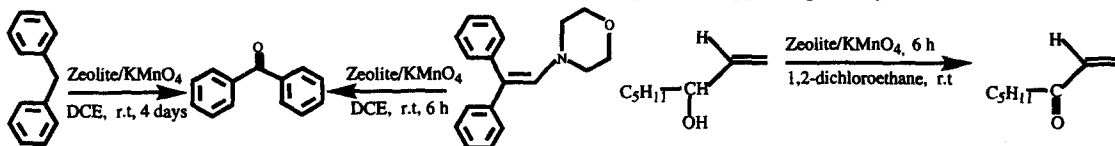
Tetrahedron Letters, 1997, 38, 5143

Zeolite Supported Permanganate : An Efficient Catalyst for Selective Oxidation of Enamines, Alkylarenes and Unsaturated Alcohols.

R. Sreekumar^{*a} and R. Padmakumar^b, ^aDepartment of Physiology, University of Wisconsin, Madison, USA.

^bDepartment of Chemistry and Biochemistry, University of Nebraska, Lincoln, USA.

Selective oxidation of enamines, arenes and unsaturated alcohols using zeolite supported permanganate.

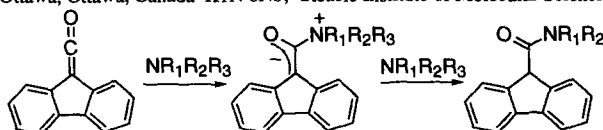


Tetrahedron Letters, 1997, 38, 5147

REACTIVITY OF FLUORENYLIDENEKETENE TOWARDS AMINES. A LASER PHOTOLYSIS STUDY WITH UV AND IR DETECTION.

N.C. de Lucas,¹ J.C. Netto-Ferreira,^{*2} J. Andraos,³ J. Lusztyk,^{*4} B. Wagner⁴ and J.C. Scaiano^{*3}

¹Instituto de Química, Universidade Federal do Rio de Janeiro, Ilha do Fundão, Rio de Janeiro, CEP 21910-240, Brazil; ²Departamento de Química, Universidade Federal Rural do Rio de Janeiro, Rio de Janeiro, Brazil, 23851-970; ³Department of Chemistry, University of Ottawa, Ottawa, Canada K1N 6N5; ⁴Steacie Institute of Molecular Sciences, National Research Council, Ottawa, Canada K1A 0R6



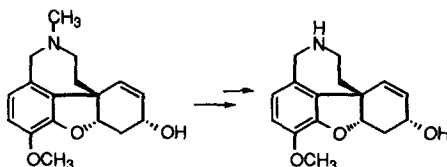
Ketenes derived from diazoquinones can be readily observed by laser photolysis techniques with IR or UV-Vis detection. They react with amines (e.g. $k = 7 \times 10^7 \text{ M}^{-1} \text{ s}^{-1}$ for diethylamine) to give ylides.

Tetrahedron Letters, 1997, 38, 5151

SELECTIVE N-DEMETHYLATION OF GALANTHAMINE TO NORGALANTHAMINE VIA A NON CLASSICAL POLONOVSKI REACTION

Aude Mary, Dolor Zafarisoa Renko, Catherine Guillou* and Claude Thal

Institut de Chimie des Substances Naturelles, C.N.R.S., 91198 Gif-sur-Yvette Cedex (France)



Tetrahedron Letters, 1997, 38, 5153

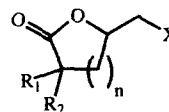
SYNTHESIS OF FUNCTIONALIZED γ -AND δ -LACTONES via POLYMER-BOUND EPOXIDES

Claire Le Hetet,[†] Michel David,^{**†} François Carreaux,^{**‡} Bertrand Carboni,[‡] Armelle Sauleau,[†]

[†]Laboratoire de Pharmacochimie de Molécules de synthèse et de Substances Naturelles, Faculté de Pharmacie, Campus de Villejean, F-35043 Rennes Cedex, France

[‡]SESO, UMR CNRS. 6510, Université de Rennes I, Campus de Beaulieu, F-35042 Rennes Cedex, France

Synthesis of epoxides from alkenoic acids that are bound to a Merrifield resin followed by ring-opening reactions with sodium azide or thiols gave lactones in good yields and high purity.

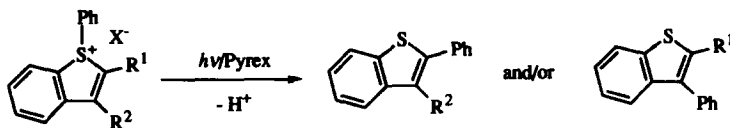


R₁ = H, CH₃ R₂ = H, CH₃
X = OH, N₃, SPh, SPhCH₃
n = 1, 2

**PHENYL MIGRATION TO THIOPHENE RING IN
PHOTOLYSIS OF 1-PHENYLBENZO[b]THIO-**

Tetrahedron Letters, 1997, 38, 5157

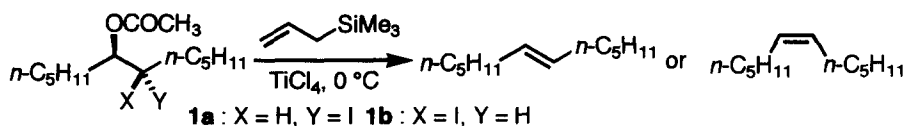
PHENIUM SALTS. Tsugio Kitamura,* Kunihiko Morizane, Hiroshi Taniguchi and Yuzo Fujiwara, Department of Chemistry and Biochemistry, Graduate School of Engineering, Kyushu University 36, Hakozaki, Fukuoka 812-81, Japan



**STEREOSPECIFIC CONVERSION OF IODOHYDRIN
DERIVATIVES INTO ALKENES BY MEANS OF AN
ALLYLSILANE-TITANIUM TETRACHLORIDE SYSTEM AND
ITS APPLICATION TO STEREORETENTIVE DEOXYGENATION OF EPOXIDES**

Tetrahedron Letters, 1997, 38, 5161

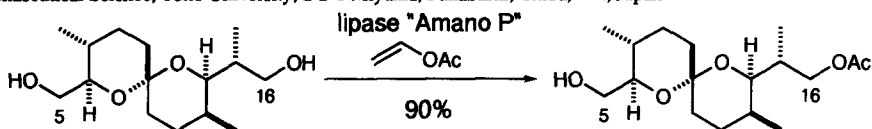
K. Yachi, K. Maeda, H. Shinokubo, and K. Oshima*
Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Yoshida, Sakyo-ku, Kyoto 606-01, Japan



**SYNTHETIC STUDY OF TAUTOMYCIN. I SYNTHESIS
AND REGIOSELECTIVE ENZYMATIC ACETYLATION OF
A SPIROKETAL DIOL RELATED TO THE C5-C16 FRAGMENT**

Tetrahedron Letters, 1997, 38, 5165

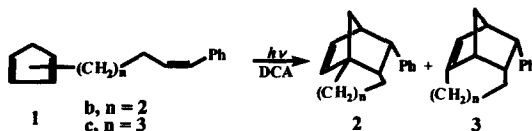
Shinji Nagumo,*^a Takayuki Arai^b and Hiroyuki Akita^{*b} a) Hokkaido college of Pharmacy, Katsuraoka 7-1, Otaru 047-02, Japan
b) School of Pharmaceutical Science, Toho University, 2-2-1 Miyama, Funabashi, Chiba, 274, Japan



**BRIDGEHEAD OLEFINS FROM TRIPLEX INTRAMOLECULAR
DIELS-ALDER REACTION OF PHENYL-SUBSTITUTED DIENOPHILES
WITH CYCLOPENTADIENES.** Hyojung Yoon and Wooki Chae*, Department of Chemistry Education, Seoul National
University, Seoul 151-742, Korea

Tetrahedron Letters, 1997, 38, 5169

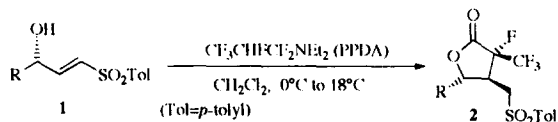
DCA-sensitized irradiation of **1** produced **2** and bridgehead olefins **3** via triplex formation.



STEREoselective FORMATION OF α -FLUORO- α -(TRIFLUORO-METHYL)- γ -LACTONES STARTING FROM γ -HYDROXY- α,β -UNSATURATED SULFONES AND HEXAFLUOROPROPENE-DIETHYLAMINE ADDUCT (PPDA)

Katsuyuki Ogura,* Ken-ichi Ogu,[†] Takashi Ayabe, Jun-ichi Sonehara, and Motohiro Akazome.
Department of Applied Chemistry, Faculty of Engineering and[†]Graduate School of Science and Technology, Chiba University,
1-33 Yayoicho, Inageku, Chiba 263, Japan.

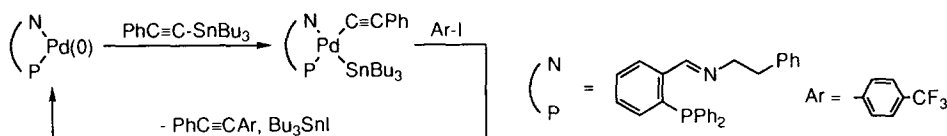
(*E*)-3-Hydroxy-1-alkenyl *p*-tolyl sulfones (**1**) reacted with hexafluoropropene-diethylamine adduct (PPDA) to afford α -fluoro- α -(trifluoromethyl)- β -[(*p*-tolylsulfonyl)methyl]- γ -lactones (**2**).



ON THE CATALYTIC CYCLE OF THE PALLADIUM-CATALYZED CROSS-COUPLING REACTION OF ALKYNYLSTANNANE WITH ARYL IODIDE

Eiji Shirakawa,* Hiroto Yoshida, and Tamejiro Hiyama

Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Sakyo, Kyoto 606-01, Japan

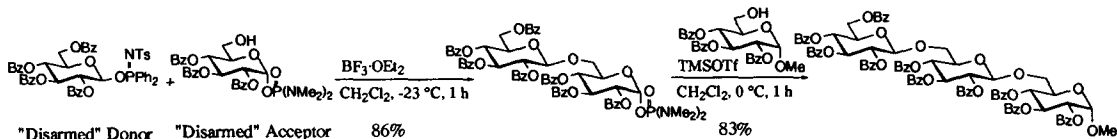


OLIGOSACCHARIDE SYNTHESIS BASED ON GLYCOSYL DONORS AND ACCEPTORS CARRYING PHOSPHORUS-CONTAINING LEAVING GROUPS

Shun-ichi Hashimoto,*[†] Hiroki Sakamoto,[†] Takeshi Honda,[†] and Shiro Ikegami*[‡]

[†]Faculty of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan

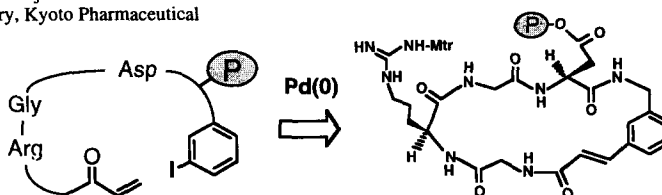
[‡]Faculty of Pharmaceutical Sciences, Teikyo University, Sagamiko, Kanagawa 199-01, Japan



MACROCYCLIZATION ON SOLID SUPPORT USING HECK REACTION.

Kenichi Akaji* and Yoshiaki Kiso
Department of Medicinal Chemistry, Kyoto Pharmaceutical University, Kyoto 607, Japan.

A novel intramolecular macrocyclization reaction on solid support using Heck reaction was achieved.

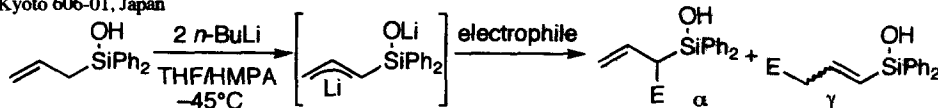


γ -REGIOSELECTIVE REACTION OF METALOXYSILYL-SUBSTITUTED ALLYL LITHIUM DERIVED FROM

Tetrahedron Letters, 1997, 38, 5189

K. Takaku, H. Shinokubo, and K. Oshima*

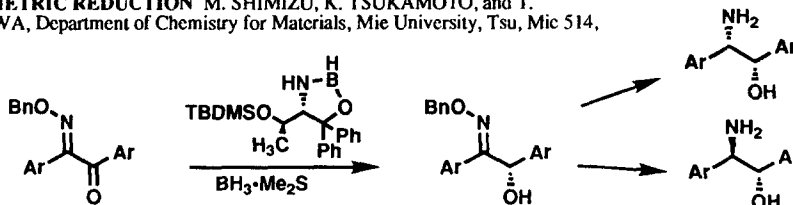
Department of Material Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku
Kyoto 606-01, Japan



STEREODIVERGENT APPROACH TO *syn*- AND *anti*-2-AMINO-1,2-DIARYLETHANOLS USING OXAZABOROLIDINE-MEDIATED

Tetrahedron Letters, 1997, 38, 5193

ASYMMETRIC REDUCTION M. SHIMIZU, K. TSUKAMOTO, and T. FUJISAWA, Department of Chemistry for Materials, Mie University, Tsu, Mie 514, Japan.



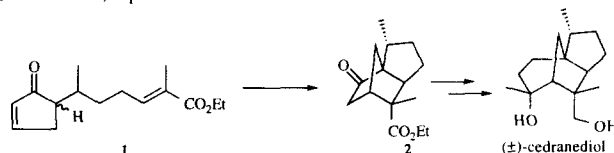
STERESELECTIVE SYNTHESIS OF (\pm)-CEDRANEDIOL VIA INTRAMOLECULAR DOUBLE MICHAEL REACTION

Tetrahedron Letters, 1997, 38, 5197

Kei Makita, Keiichi Fukumoto, and Masataka Ihara,*

Pharmaceutical Institute, Tohoku University, Aobayama, Sendai 980-77, Japan

Heating the enone **1** together with $ZnCl_2$, Et_3N , and $TMSCl$ gave the tricyclo[5.2.1.0^{1,5}]decane **2** as a single diastereomer, which was converted into (\pm)-cedranediol.

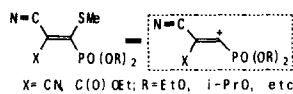


A NOVEL APPROACH TO PHOSPHONYL-SUBSTITUTED HETEROCYCLIC SYSTEMS(I) Rongjian Lu, Huazheng Yang;

Tetrahedron Letters, 1997, 38, 5201

Institute of Elemento-Organic Chemistry, Nankai University, China

Utilization of α,α -dicyano(α -cyano- α -ethoxy-carbonyl) phosphonyl/*S*-methyl ketene acetals to synthesize various phosphonyl-substituted heterocycles is reported.

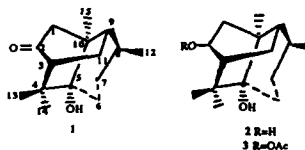


THE STRUCTURES OF THREE NOVEL SESQUITERPENOIDS FROM VALERIANA JATAMANSI JONES

Dong Sheng Ming, De Quan Yu*, Yi Ying Yang, Cun Heng He

Institute of Materia Medica, Chinese Academy of Medical Science and Peking Union Medical College, Beijing 100050, China.

Valeriananoids A(1), B(2) and C(3) have been isolated from the roots and rhizomes of *Valeriana jatamansi* Jones. The structures were elucidated by spectroscopic means and X-ray crystallographic analysis.

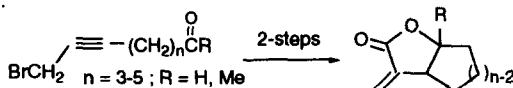


SYNTHESIS OF BICYCLIC α -METHYLENE BUTYROLACTONES VIA ALKOXYCARBONYLATION OF MOLYBDENUM-PROPARGYL COMPOUNDS

Shwu-Ju Shieh and Rai-Shung Liu*

Department of Chemistry, National Tsinghua University, Hsinchu, 30043, Taiwan ROC

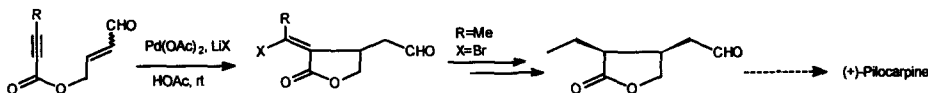
An efficient molybdenum-mediated synthesis of bicyclic α -methylenebutyrolactones from bromopropargyl carbonyl compounds is described.



PALLADIUM-CATALYZED INTRAMOLECULAR ALKYNE- α,β -UNSATURATED CARBONYL COUPLING. A FORMAL SYNTHESIS OF (+)-PILOCARPINE. Zhong Wang and Xiyan Lu*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai 200032, China

An efficient stereoselective cyclization method by palladium-catalyzed intramolecular enyne coupling of 4'-oxo-2'-alkenyl 2-alkynoates was developed, which features in a short-step synthesis of homopilopic aldehyde.

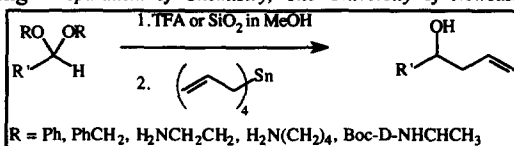


A Simple One Pot Procedure For The Generation of Homoallylic Alcohols From Acetals And Amino Acetals

Adam McCluskey*, Debra M Mayer¹ and David J Young² ¹Department of Chemistry, The University of Newcastle, University Drive, Callaghan, Newcastle, NSW Australia 2308.

²School of Science, Griffith University, Nathan, Brisbane, Qld, Australia, 4111.

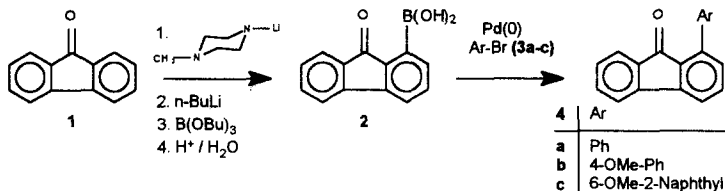
A simple one pot allylation procedure for the allylation of acetals and amino acetals is reported. Yields of the corresponding homoallylic alcohols vary from 68 - 100%.



The Influence of Aryl Substitution on the Photophysics of 1-Aryl-Fluorenones.

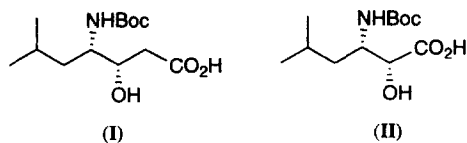
A. Demeter^{a*}, G. Timári^a, A. Kotschy^b and T. Bérces^a a: Central Research Institute for Chemistry, H-1525 Budapest, P.O.Box 17, Hungary and b: Eötvös Loránd University, Dept. of General and Inorganic Chemistry, H-1518 Budapest 112, P.O.Box 32, Hungary

1-aryl-fluorenone derivatives were prepared from fluorenone via 9-fluorenone-1-boronic acid by coupling with the corresponding aryl-halides. The photophysical properties of these derivatives were found to be strongly influenced by a new CT transition, resulting in some cases dual luminescence.

**STEREOSELECTIVE SYNTHESIS OF (-)-N-BOC-STATINE AND (-)-N-BOC-NORSTATINE**

G. Veerasha and Apurba Datta*
 Organic III, Indian Institute of Chemical Technology
 Hyderabad - 500 007, India

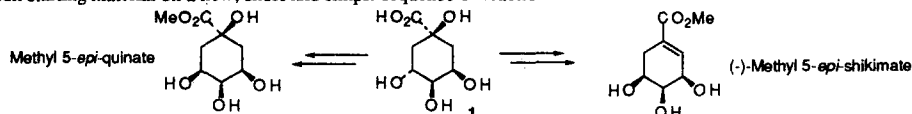
An efficient general approach for the synthesis of biologically important hydroxy amino acids, (-)-statine (I) and (-)-norstatine (II) is reported.

**NEW AND EFFICIENT ENANTIOSPECIFIC SYNTHESIS OF (-)- METHYL 5-*epi*-SHIKIMATE AND METHYL 5-*epi*-QUINATE FROM (-)-QUINIC ACID.**

Susana Fernández, Mónica Díaz, Miguel Ferrero, and Vicente Gotor*

Departamento de Química Orgánica e Inorgánica, Universidad de Oviedo, 33071 Oviedo, Spain.

(-)-Methyl 5-*epi*-shikimate and methyl 5-*epi*-quinate were synthesized efficiently from readily available and inexpensive (-)-quinic acid 1 as a common starting material on a new, short and simple sequence of reactions.

**Synthesis of Cell-wall Analogues of Vancomycin-resistant Enterococci using Solid Phase Peptide Synthesis**

Younghoon R. Cho, Richard M. H. Entress and Dudley H. Williams*, Cambridge Center for Molecular Recognition, Department of Chemistry, University of Cambridge, Lenfield Rd, Cambridge, UK, CB2 1EW

Coupling of lithium D-lactate to 2-chlorotrityl chloride resin allows subsequent solid phase peptide synthesis of depsipeptides

