GRAPHICAL ABSTRACTS

Tetrahedron Letters, **1997**, *38*, 1865

Synthesis of ^{13}C Enriched Sialyllactones and Their Characterization Using Isotope Edited Inverse Detected NMR Spectroscopy.

Jacquelyn Gervay,* Nellie N. Mamuya, and R. Andrew Barber, Dept. of Chemistry, The University of Arizona, Tucson, Arizona 85721

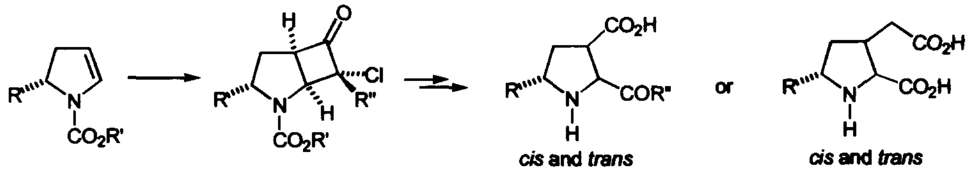
^{13}C enriched sialyllactones were prepared and characterized using isotope edited NMR spectroscopy.

Tetrahedron Letters, **1997**, *38*, 1869

STEREOSELECTIVE SYNTHESIS OF CONFORMATIONALLY RESTRICTED ANALOGUES OF ASPARTIC AND GLUTAMIC ACIDS FROM ENDOCYCLIC ENECARBAMATES.

Marcos J.S. Carpes, Paulo C.M.L.Miranda, Carlos R.D.Correia*. Instituto de Química, UNICAMP, Campinas, 13083-970, São Paulo, Brasil.

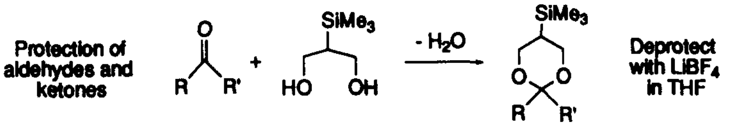
Conformationally restricted analogues of aspartic and glutamic acids were prepared in good overall yields from five-membered endocyclic enecarbamates.



Tetrahedron Letters, **1997**, *38*, 1873

cyclo-SEM. A New Carbonyl Protecting Group

Bruce H. Lipshutz,*, Paul Mollard, Craig Lindsley, and Virginia Chang
Department of Chemistry, University of California, Santa Barbara, CA 93106-9510



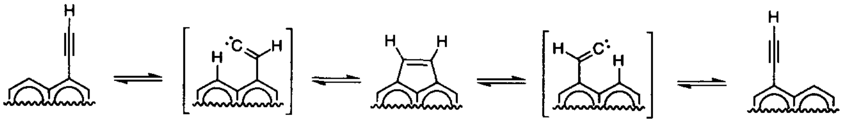
Tetrahedron Letters, **1997**, *38*, 1877

Thermal Migration of an Ethynyl Group From One Benzene Ring to Another by Reversible Vinylidene C-H Insertion.

Lawrence T. Scott* and Atena Necula

Department of Chemistry, Merkert Chemistry Center, Boston College, Chestnut Hill, MA 02167-3860

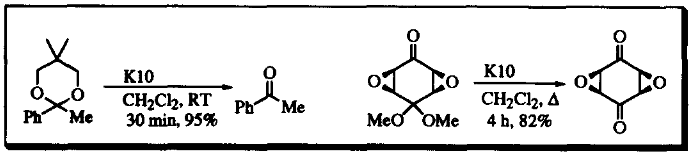
The title reaction has been found to occur at high temperatures in the gas phase.



Tetrahedron Letters, **1997**, *38*, 1881

ACETAL AND KETAL DEPROTECTION USING MONTMORILLONITE K10: THE FIRST SYNTHESIS OF *SYN*-4,8-DIOXATRICYCLO[5.1.0.0^{3,5}]-2,6-OCTANEDIONE

Elisabeth C. L. Gautier,[a] Andrew E. Graham,[b]
Alexander McKillop,[a] Stephen P. Standen[b] and
Richard J. K. Taylor[b,*]



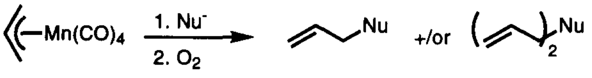
[a]School of Chemical Sciences, University of East Anglia, Norwich NR4 7TJ, UK
[b]Department of Chemistry, University of York, Heslington, York YO1 5DD, UK

Tetrahedron Letters, **1997**, *38*, 1885

Reaction of Tetracarbonyl(π-allyl)manganese with Carbon Nucleophiles

William S. Vaughan, Henry H. Gu and Keith F. McDaniel*
Department of Chemistry, Ohio University, Athens, Ohio 45701

The reaction of tetracarbonyl(π-allyl)manganese with carbon nucleophiles followed by oxidation provides allylated products in 44-95% yield.

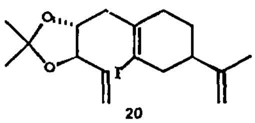


Tetrahedron Letters, **1997**, *38*, 1889

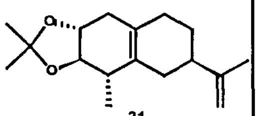
A STEREOSELECTIVE TOTAL SYNTHESIS OF (-)-RISHITIN.

Jiong Chen and John N. Marx,* Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409

The key step in a new convergent synthesis of (-)-rishitin, a phytoalexin from diseased potato tubers, is the vinyl radical cyclization of **20** to **21**, which proceeds with a stereoselectivity of 10:1 for the desired isomer.



20



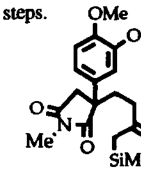
21

Tetrahedron Letters, **1997**, *38*, 1893

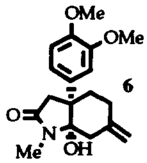
A New Synthesis of (±)-Mesembrine Involving the Intramolecular Nucleophilic Attack of an Allyl Anion on a Carbonyl Function of an Imide

P.Rajagopalan
Chemical and Physical Sciences Division, The DuPont merck Pharmaceutical Company, Wilmington, DE 19880-0500

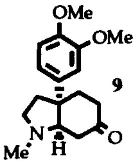
When treated with cesium fluoride in dimethyl formamide, the known **5** furnished **6** which was converted to racemic mesembrine (**9**) in two steps.



5



6

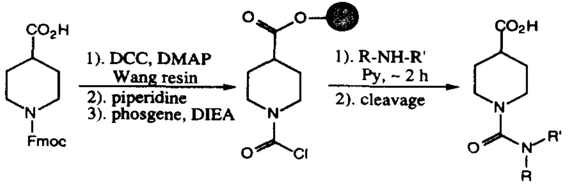


9

Tetrahedron Letters, **1997**, *38*, 1895

Solid Phase Synthesis of Ureas of Secondary Amines via Carbamoyl Chloride

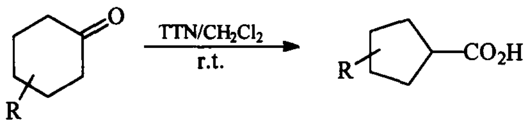
Gary T. Wang*, Yuanwei Chen, Sheldon Wang, Richard Sciotti and Thomas Sowin. Department of Combinatorial Chemistry, Pharmaceutical Discovery, Abbott Laboratories, Abbott Park, IL 60064



Tetrahedron Letters, **1997**, *38*, 1899

THALLIUM TRINITRATE MEDIATED RING CONTRACTION OF MONOCYCLIC KETONES: STEREOCHEMICAL ASPECTS.

Helena M. C. Ferraz and Luiz F. Silva Jr.. Instituto de Química, Universidade de São Paulo, C.P. 26077, CEP 05599-970- São Paulo- SP, Brasil.



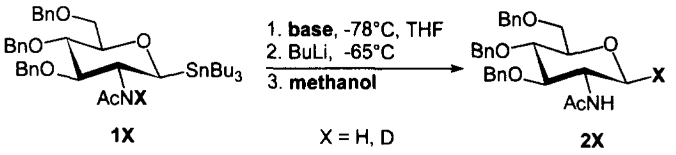
Thallium trinitrate promotes stereo and regioselective ring contraction of 3-alkyl and 4- alkyl cyclic ketones in good yields.

Tetrahedron Letters, **1997**, *38*, 1903

COMPETITION OF DEPROTONATION AND TIN-LITHIUM EXCHANGE IN THE GENERATION OF A GLYCOSYL DIANION

Matthias Hoffmann, Horst Kessler*, Institut für Organische Chemie und Biochemie der Technischen Universität München, Lichtenbergstr. 4, D-85747 Garching, Germany.

The deprotonation and tin-lithium exchange of **1X** are not completely separated when BuLi is used as base. This is elucidated by deuteration experiments. Decoupling of the two reactions is possible by MeLi*LiBr for deprotonation and BuLi for tin-lithium exchange.

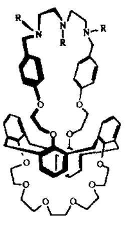


Tetrahedron Letters, **1997**, *38*, 1907

SYNTHESIS OF TWO CALIX[4]ARENES IN 1,3-ALTERNATE CONFORMATION CONTAINING HARD AND SOFT ION BINDING SITES.

Wanlapa Aeungmaitrepirom, Zouhair Asfari, and Jacques Vicens
E. C. P. M., Laboratoire de Chimie des Interactions Moléculaires
Spécifiques, associé au C. N. R. S. 1, rue Blaise Pascal, F-67008, Strasbourg, France

It is reported the synthesis of ligands **6** and **8** combining one calix[4]arene unit in the 1,3-alternate conformation and crown ether and aza crown ether elements. Preliminary complexations are given.



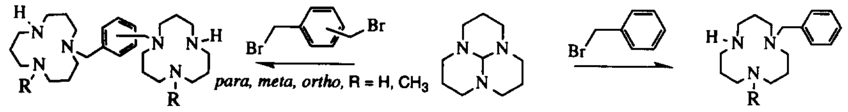
8 R = H

Tetrahedron Letters, **1997**, *38*, 1911

SYNTHESIS AND CHARACTERIZATION OF A NEW SERIES OF [12]aneN$_3$ TYPE MACROCYCLES. STRUCTURES OF TWO PROTONATED METAL-FREE LIGANDS.

Patricia Hubsch-Weber and Marie-Thérèse Youinou*. Laboratoire de Chimie des Métaux de Transition et de Catalyse, Associé au C.N.R.S., Université Louis Pasteur, Institut Le Bel, 4 rue Blaise Pascal, 67000 Strasbourg, France.

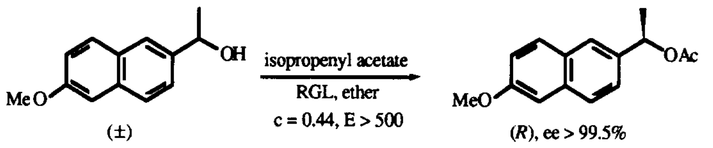
The synthesis of a family of monotopic and ditopic ligands possessing a [12]aneN$_3$ synthon as well as the X-ray characterization of two of them in their protonated form are reported.



Tetrahedron Letters, **1997**, *38*, 1915

KINETIC RESOLUTION OF SECONDARY ALCOHOLS MEDIATED BY RABBIT GASTRIC LIPASE

Jean-Yves Legros, Martial Toffano, Sally K.Drayton, Michael Rivard and Jean-Claude Fiaud, Laboratoire de Synthèse Asymétrique Associé au C.N.R.S. (URA n° 1497), Institut de Chimie Moléculaire d'Orsay, Bâtiment 420 Université de Paris-Sud, 91405 Orsay, France.



Others tested arylmethyl carbinols showed poor to moderate enantiodifferentiation ($E \leq 23$)

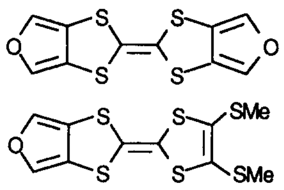
Tetrahedron Letters, **1997**, *38*, 1919

SYNTHESIS AND ELECTROCHEMICAL PROPERTIES OF FUSED [3,4]FURANO-TETRATHIAFULVALENES

Y. Siquot,[a] P. Frère,[a*] T. Nozdryn,[a] J. Cousseau,[a] M. Sallé,[a] M. Jubault,[a] J. Orduna[b],
J. Garín[b] and A. Gorgues,[a*]

a Laboratoire d'Ingénierie Moléculaire et Matériaux Organiques, associé au CNRS, Université d'Angers, 2 Bd Lavoisier, F-49045 Angers, France
b Departamento de Química Orgánica, ICMA Universidad de Zaragoza, CSIC, E-50009 Zaragoza, Spain

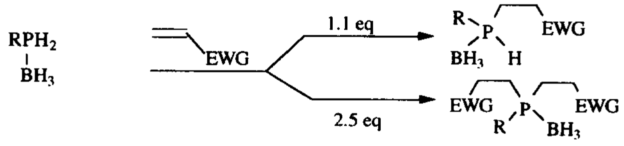
The synthesis of the first fused [3,4]Furano-TTFs is described and their electrochemical behaviours are examinated.



Tetrahedron Letters, **1997**, *38*, 1923

HYDROPHOSPHINATION OF α,β-UNSATURATED ESTERS BY PRIMARY PHOSPHINE-BORANES; A USEFUL ENTRY TO SYMMETRICAL AND UNSYMMETRICAL PHOSPHINE-BORANES

K. Bourumeau, A.C. Gaumont* and J.M. Denis, Synthèse et Electrosynthèse Organiques, UMR CNRS 6510, Université de Rennes 1, F-35042 Rennes, France.



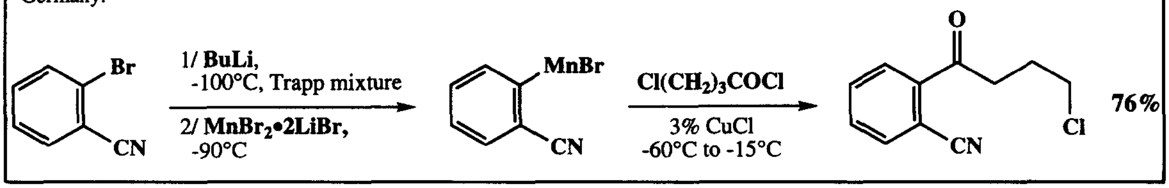
R = Ph ; Me
EWG = CO$_2$Me ; P(O)(OMe)$_2$

PREPARATION AND REACTIVITY OF FUNCTIONALIZED ARYL AND ALKENYLMANGANESE HALIDES

Tetrahedron Letters, **1997**, *38*, 1927

Ingo Klement[a,b], Heinz Stadtmüller[a], Paul Knochel[b]* and Gérard Cahiez[a]*

a/ Ecole Supérieure de Chimie Organique et Minérale, Département de Chimie, 13 Boulevard de l'Hautil, F-95092 Cergy-Pontoise, France. b/ Fachbereich Chemie der Philipps-Universität Marburg, Hans-Meerwein Strasse, D-35032 Marburg, Germany.



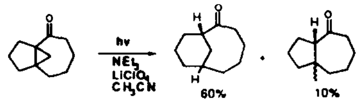
Tetrahedron Letters, **1997**, *38*, 1931

PHOTOSELECTIVE BOND CLEAVAGE OF TRICYCLO[5.3.1.0^{1,7}]UNDECANE DERIVATIVES. A FACILE ENTRY TO CARBOCYCLIC TAXANE [A,B] RING SYSTEM

Janine Cossy , S. BouzBouz

Laboratoire de Chimie Organique, Associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05 - France

The selective control of cyclopropyl bond cleavage of tricyclo[5.3.1.0^{1,7}]undecan-2-one by photochemical electron transfer produces a new approach to the construction of the carbon skeleton of the [A,B] ring system of the carbocyclic frame of taxane.

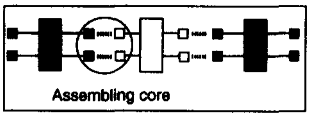


Tetrahedron Letters, **1997**, *38*, 1933

MOLECULAR TECTONICS V : MOLECULAR RECOGNITION IN THE FORMATION OF MOLECULAR NETWORKS BASED ON HYDROGEN BONDING AND ELECTROSTATIC INTERACTIONS

Olivier Félix, Mir Wais Hosseini* , André De Cian, Jean Fischer
Institut de Chimie, Université Louis Pasteur, 4, rue Blaise Pascal,
F-67000 Strasbourg, France

The formation of α-molecular networks based on dihapto mode of H-bonding was investigated in the solid state using bis-cyclic amidinium dications and acetylenedicarboxylate dianion. It has been demonstrated that the formation of networks depends strongly on the structure of the components. A proper disposition of H-bond donor and acceptor sites indeed leads to the formation of infinite molecular assemblies in the crystalline phase.

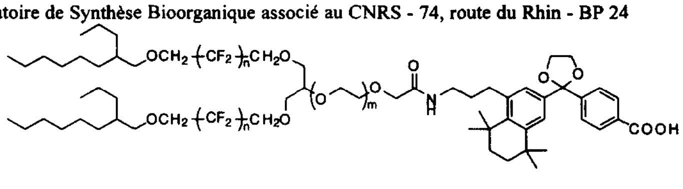


Tetrahedron Letters, **1997**, *38*, 1937

Synthesis and Preliminary Evaluation of a New Class of Fluorinated Amphiphiles Designed for In-Plane Immobilisation of Biological Macromolecules

Pierre Held, Franck Lach, Luc Lebeau* and Charles Mioskowski*
Université Louis Pasteur de Strasbourg - Laboratoire de Synthèse Bioorganique associé au CNRS - 74, route du Rhin - BP 24
67 401 Illkirch Cedex - France

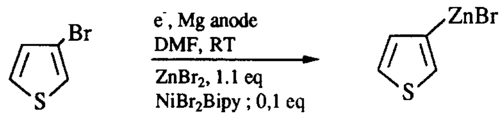
A series of fluorinated amphiphilic derivatives of vitamin A analogues was prepared to perform two-dimensional crystallisation experiments with retinoic acid receptors.



Tetrahedron Letters, **1997**, *38*, 1941

Electrosynthesis of 3-Thienylzinc Bromide from 3-Bromothiophene via a Nickel Catalysis.

C. Gosmini*, J.Y. Nédélec and J. Périchon
Laboratoire C.N.R.S. d'Electrochimie, Catalyse et Synthèse Organique, 2, rue Henri-Dunant 94320 Thiais, France



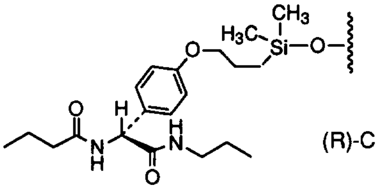
(1)

Tetrahedron Letters, **1997**, *38*, 1943

UNUSUAL HIGH ENANTIOSELECTIVITY BY A NEW HPLC CHIRAL STATIONARY PHASE

Myung Ho Hyun* and Chung Sik Min, Department of Chemistry, Pusan National University, Pusan 609-735, Korea

A new chiral stationary phase (CSP 1) prepared from (R)-*p*-hydroxyphenylglycine has been found to show unusually high enantioselectivity for the enantiomers of N-(3,5-dinitrobenzoyl)-α-amino amides.

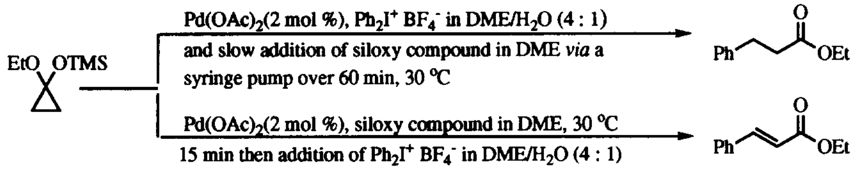


(R)-CSP 1

Tetrahedron Letters, **1997**, *38*, 1947

PALLADIUM-CATALYZED COUPLING AND CARBONYLATIVE COUPLING OF SILYLOXY COMPOUNDS WITH HYPERVALENT IODONIUM SALTS

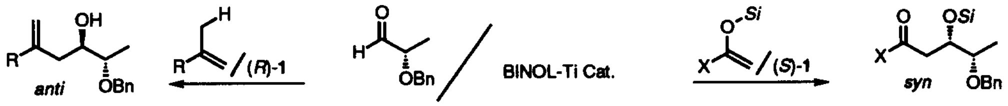
Suk-Ku Kang,* Tokutaro Yamaguchi, Pil-Su Ho, Won-Yeob Kim, and Seok-Keun Yoon
Department of Chemistry, Sung Kyun Kwan University, Natural Science Campus, Suwon 440-746, Korea



Tetrahedron Letters, **1997**, *38*, 1951

ASYMMETRIC CARBONYL ADDITION REACTIONS TO BENZYLOXYALDEHYDES BY BINAPHTHOL-TITANIUM CATALYST: *ANTI- VS SYN*-DIASTEREOFACIAL PREFERENCE IN ANOMALOUS NONCHELATION COMPLEXATION

Koichi Mikami,* Satoru Matsukawa, Eiji, Sawa,
Akinori Harada† and Nobuaki Koga†
Department of Chemical Technology, Tokyo Institute of Technology, Meguro-ku, Tokyo 152, Japan
†Department of Chemistry, College of General Education, Nagoya University, Chikusa-ku, Nagoya 464, Japan

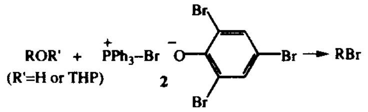


Tetrahedron Letters, **1997**, *38*, 1955

A MILD AND EFFICIENT METHOD FOR CONVERTING ALCOHOLS AND TETRAHYDROPYRANYL ETHERS TO BROMIDES WITH INVERSION OF CONFIGURATION

Akira Tanaka[a]*and Takayuki Oritani[b]
[a] Division of Environmental Bioremediation, Graduate School of Agriculture and[b] Department of Applied Biological Chemistry, Faculty of Agriculture, Tohoku University, 1-1 Tsutsumidori-amamiyamachi, Aoba-ku, Sendai 981, Japan

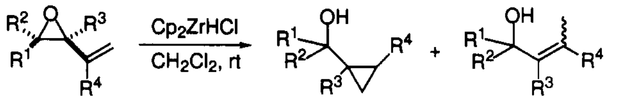
Bromotriphenylphosphonium salt 2 converted alcohols and tetrahydropyranyl ethers to the corresponding bromides in high yields.



Tetrahedron Letters, **1997**, *38*, 1957

FORMATION OF CYCLOPROPYL CARBINOLS THROUGH A HIGHLY DIASTEREOSELECTIVE HYDROZIRCONATION OF VINYLOXIRANE DERIVATIVES.

Susumu Harada, Noboru Kowase, Takeo Taguchi* and Yuji Hanzawa*
School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-03, Japan

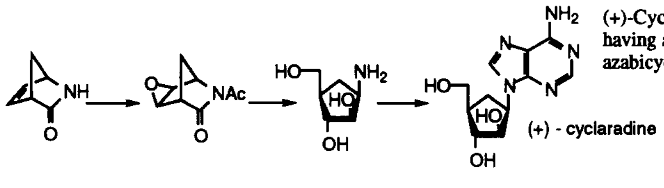


Formation of cyclopropyl carbinol derivatives by the diastereoselective hydrozirconation of vinyloxirane derivatives were described.

Tetrahedron Letters, **1997**, *38*, 1961

A HIGHLY EFFICIENT SYNTHESIS OF THE ANTIVIRAL AGENT (+)-CYCLARADINE INVOLVING THE REGIOSELECTIVE CLEAVAGE OF EPOXIDE BY NEIGHBORING PARTICIPATION.

Nobuya Katagiri,* Yumiko Matsuhashi, Hideaki Kokufuda, Masahiro Takebayashi, Chikara Kaneko, Pharmaceutical Institute, Tohoku University, Aobayama, Aoba-ku, Sendai 980-77, Japan

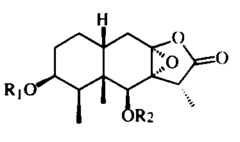


(+)-Cyclaradine, carbocyclic arabinofuranosyladenine having anti-HSVactivity, has been synthesized from 2-azabicyclo[2.2.1]hept-5-en-3-one in only seven steps.

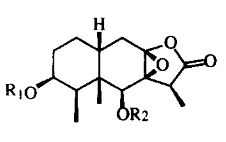
Tetrahedron Letters, **1997**, *38*, 1965

NOVEL EPOXYEREMOPHILANOLIDES, EREMOPETASITENINS A1, A2, B1, AND B2, FROM *PETASITES JAPONICUS*

Motoo Tori,* Makiko Kawahara, and Masakazu Sono
Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro cho, Tokushima, 770, Japan



eremopetasitenin A1 (1) R1=H, R2=Ang.
eremopetasitenin A2 (2)
R1=Z-3-methylthiopropenoyl, R2=Me



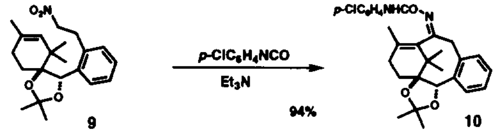
eremopetasitenin B1 (3) R1=H, R2=Ang.
eremopetasitenin B2 (4)
R1=Z-3-methylthiopropenoyl, R2=Ang.

Tetrahedron Letters, **1997**, *38*, 1969

SYNTHESIS OF TAXANE A/B RING BY INTRAMOLECULAR NITRILE OXIDE CYCLIZATION REACTION

Yoshimasa Hirai and Hiroto Nagaoka*
Meiji College of Pharmacy, Yato-cho, Tanashi, Tokyo 188, Japan

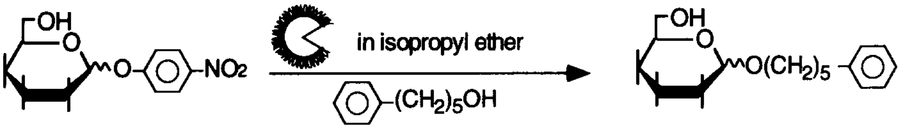
The reaction of nitro olefin **9** with *p*-chlorophenyl isocyanate and triethyl amine produced tricyclic compound **10**.



Tetrahedron Letters, **1997**, *38*, 1971

A VARIETY OF LIPID-COATED GLYCOSIDE HYDROLASES AS EFFECTIVE GLYCOSYL TRANSFER CATALYSTS IN HOMOGENEOUS ORGANIC SOLVENTS.

Toshiaki Mori and Yoshio Okahata*
Department of Biomolecular Engineering, Tokyo Institute of Technology, 4259 Nagatsuda, Midori-ku, Yokohama 226 Japan



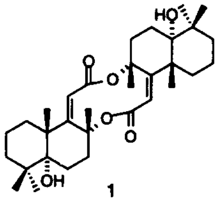
Man-α-, Man-β-, GlcNAc-β-, Glc-β-, and Gal-β-

Tetrahedron Letters, **1997**, *38*, 1975

SCAPAUNDULINS A AND B, TWO NOVEL DIMERIC LABDANE DITERPENOIDS, AND RELATED COMPOUNDS FROM THE JAPANESE LIVERWORT *SCAPANIA UNDULATA* (L.) DUM.

Tatsuhiko Yoshida, Masao Toyota and Yoshinori Asakawa*
Faculty of Pharmaceutical Sciences, Tokushima Bunri University,
Yamashiro-cho, Tokushima 770, Japan

Two novel dimeric labdane diterpenoids, scapaundulins A (**1**) and B (**2**), together with three new labdane diterpenoids have been isolated from the ether extract of the Japanese liverwort *Scapania undulata* (L.) Dum.



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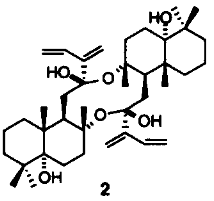


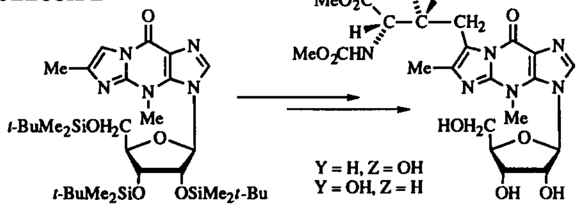
2

Tetrahedron Letters, **1997**, *38*, 1979

SYNTHESIS OF [*R*-(*R**,*S**)]- AND [*S*-(*R**,*R**)]-β-HYDROXY-3-(β-D-RIBOFURANOSYL)WYBUTINES, THE MOST PROBABLE ALTERNATIVES FOR THE HYPERMODIFIED NUCLEOSIDE OF RAT LIVER PHENYLALANINE TRANSFER RIBONUCLEIC ACID.

Taisuke Itaya,* Tae Kanai, and Takehiko Iida, Faculty of Pharmaceutical Sciences, Kanazawa University, Takara-machi, Kanazawa 920, Japan

The first synthesis of the title compounds has been accomplished through the Wittig reaction as the key step.

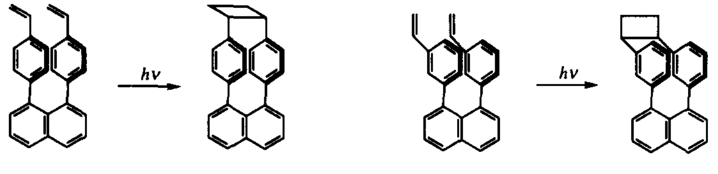


Tetrahedron Letters, **1997**, *38*, 1983

SYNTHESIS OF 1,8-NAPHTHYLENE-BRIDGED *syn*-CYCLOPHANES BY EFFICIENT INTRAMOLECULAR [2 + 2] PHOTOCYCLOADDITION

Yosuke Nakamura, Miho Matsumoto, Yoshitou Hayashida, and Jun Nishimura*
Department of Chemistry, Gunma University, Tenjin-cho, Kiryu, Gunma 376, Japan

Novel 1,8-naphthylene-bridged para- and metacyclophanes were efficiently synthesized as a single isomer by the intramolecular [2 + 2] photocycloaddition of 1,8-bis(*p*- and *m*-vinylphenyl)naphthalenes, respectively.

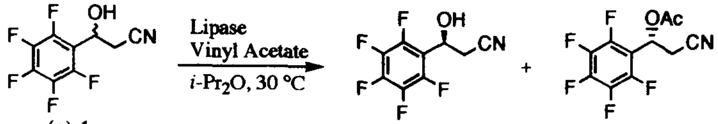


Tetrahedron Letters, **1997**, *38*, 1987

LIPASE-CATALYZED EFFICIENT KINETIC RESOLUTION OF 3-HYDROXY-3-(PENTAFLUOROPHENYL)PROPIONITRILE

Takashi Sakai*, Tetsuo Takayama, Takafumi Ohkawa, Tadashi Ema and Masanori Utaka*
Department of Applied Chemistry, Faculty of Engineering, Okayama University, Tsushima 700, Japan

Lipase-Catalyzed Transesterification



(±)-1 (*S*)-1 (>99% ee) (*R*)-2 (>99% ee)

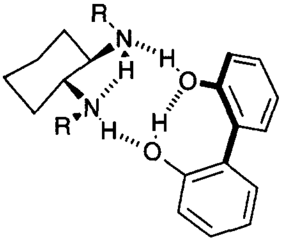
E >1057

Tetrahedron Letters, **1997**, *38*, 1991

AXIAL CHIRALITY INDUCTION IN FLEXIBLE BIPHENOLS BY HYDROGEN BONDING AND STERIC INTERACTIONS

Tadashi Mizutani, Hideki Takagi, Osamu Hara, Takuya Horiguchi, and Hisanobu Ogoshi Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Sakyo-ku, Kyoto 606-01 Japan

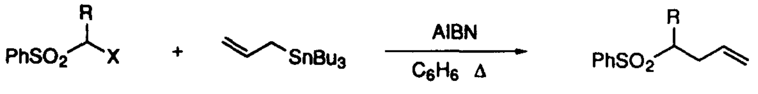
Chiral induction in biphenols was studied as a model for intermolecular information transmission. Upon complexation with chiral trans-1,2-cyclohexanediamines, axial chirality was induced in biphenols. The bulky diamine (R = $CH_2CH_2Bu^t$) induced an opposite chirality to that induced by the less bulky diamine (R = CH_3, H).



Tetrahedron Letters, **1997**, *38*, 1995

RADICAL INDUCED ALLYLATIONS OF FUNCTIONALIZED α-HALOALKYLPHENYL SULFONES.

A. Giardinà, R.Giovannini and M.Petrini*
Dipartimento di Scienze Chimiche dell'Università. Via S.Agostino, 1 I-62032 Camerino, Italy.

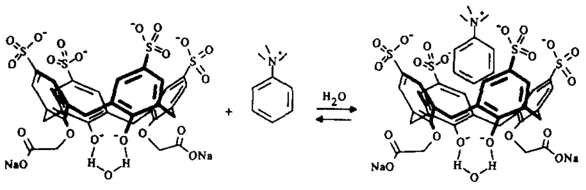


X = Cl, Br

Tetrahedron Letters, **1997**, *38*, 1999

A New Water-Soluble Calix[4]arene Ditopic Receptor Rigidified by Microsolvation: Acid-Base and Inclusion Properties.

Giuseppe Arena[a]*, Alessandro Casnati[b], Leonardo Mirone[a], Domenico Sciotto[a] and Rocco Ungaro[b]. a. Dipartimento di Scienze Chimiche, Universita' di Catania, 95125 Catania, Italy; b. Dipartimento di Chimica Organica e Industriale, Universita' di Parma, Viale delle Scienze, I -43100, Parma, Italy.

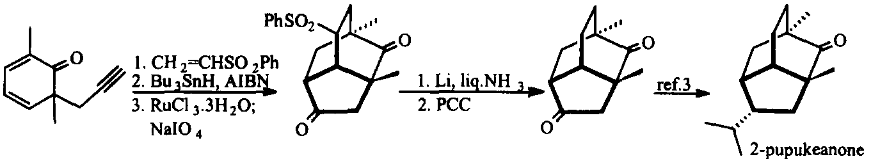


Hydrogen bonding at the lower rim of a calix[4]arene ditopic receptor has a remarkable influence on its acid-base and inclusion properties.

Tetrahedron Letters, **1997**, *38*, 2003

A SHORT, VINYL RADICAL CYCLISATION APPROACH TO (±)-2-PUPUKEANONE

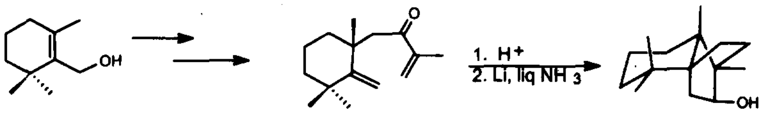
A. Srikrishna,* D. Vijaykumar and G.V.R. Sharma
Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India



Tetrahedron Letters, **1997**, *38*, 2005

A BIOGENETICALLY PATTERNED FIRST TOTAL SYNTHESIS OF (±)-6-EPIJUNICEDRANOL (OR JUNICEDRAN-11-OL)

A. Srikrishna* and P. Praveen Kumar
Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India.



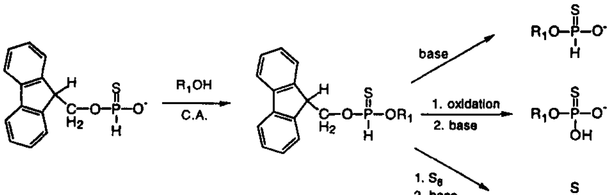
(6-epijunicedranol)

Tetrahedron Letters, **1997**, *38*, 2007

9-FLUORENEMETHYL H-PHOSPHONOTHIOATE, A VERSATILE REAGENT FOR THE PREPARATION OF NUCLEOSIDE H-PHOSPHONOTHIOATE, NUCLEOSIDE PHOSPHOROTHIOATE, AND NUCLEOSIDE PHOSPHORODITHIOATE MONOESTERS

J. Jankowska, J. Cieślak, and A. Kraszewski*
Institute of Bioorganic Chemistry, Polish Academy of Sciences, Noskowskiego 12/14, 61-704 Poznan, Poland

J. Stawiński*
Department of Organic Chemistry, Arrhenius Laboratory, Stockholm University, S-106 91 Stockholm, Sweden.



R_1 = a nucleosid-5'-yl moiety
C.A. = chlorophosphates or PV-Cl

Tetrahedron Letters, **1997**, *38*, 2011

SOLID-PHASE SYNTHESIS OF SMALL MOLECULE LIBRARIES USING DOUBLE COMBINATORIAL CHEMISTRY.

John Nielsen* and Flemming R. Jensen, Department of Organic Chemistry, Building 201, The Technical University of Denmark, DK-2800 Lyngby, Denmark.

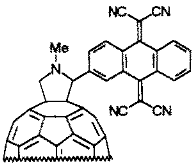
The first synthesis of a combinatorial library using *double combinatorial chemistry* is presented and exemplified by the synthesis of a [6+3]-member library of Mitsunobu-alkylated tyrosine dimers.

Tetrahedron Letters, **1997**, *38*, 2015

[60]FULLERENE-BASED ELECTRON ACCEPTORS WITH TETRACYANO-*p*-QUINODIMETHANE (TCNQ) AND DICYANO-*p*-QUINONEDIIMINE (DCNQI) DERIVATIVES.

B. M. Illescas, N. Martín,* C. Seoane.*

Dpto. de Química Orgánica, Facultad de Química, Univ. Complutense, 28040 Madrid, Spain.



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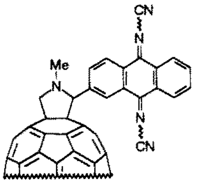


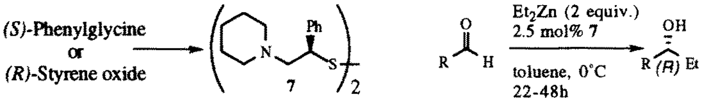
5

Tetrahedron Letters, **1997**, *38*, 2019

Synthesis of a Scalemic β-Amino Disulfide from *(S)*-Phenylglycine and *(R)*-Styrene Oxide and Use as a Catalyst in Enantioselective Additions of Diethylzinc to Aldehydes

David A. Fulton and Colin L. Gibson, Pure & Applied Chemistry, University of Strathclyde, 295 Cathedral Street, Glasgow, UK.

Two routes to the novel scalemic ß-amino disulfide **7** have been developed from *(S)*-phenylglycine and *(R)*-styrene oxide. The ß-amino disulfide **7** was used as a catalyst in the enantioselective addition of diethylzinc to aldehydes providing *(R)*-secondary alcohols in 39-80% ee.

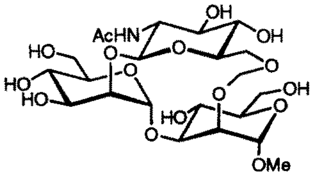


Tetrahedron Letters, **1997**, *38*, 2023

THE DESIGN AND SYNTHESIS OF A CONFORMATIONALLY CONSTRAINED TRISACCHARIDE FOR PROBING CARBOHYDRATE-PROTEIN INTERACTIONS

N. Navarre, A. H. van Oijen, G. J. Boons*, School of Chemistry, The University of Birmingham, Edgbaston, Birmingham B15 2TT, UK

A novel cyclic trisaccharide has been designed and prepared which is conformationally constrained around its glycosidic linkages but can adopt a conformation required for binding with the lectin LOLI. This type of saccharide will be important to probe the importance of saccharide flexibility for carbohydrate-protein complex formation.



Tetrahedron Letters, **1997**, *38*, 2027

A STEREOSPECIFIC SYNTHESIS OF VICINAL AMINO ALCOHOLS BY AMINOLYSIS OF VINYLEPOXIDES

U. M. Lindström, R. Franckowiak, N. Pinault and P. Somfai*
Organic Chemistry 2, Center for Chemistry and Chemical Engineering
Lund Institute of Technology, Lund University, P. O. Box 124, S-221 00 Lund, Sweden

Several vinylepoxides have been prepared and subjected to a TsOH·H_2O-catalyzed aminolysis reaction to afford, stereospecifically and with high regioselectivity, the corresponding amino alcohols in good yields.