

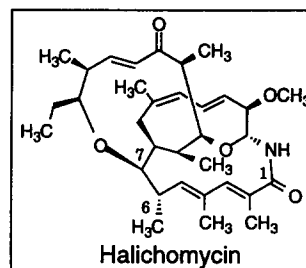
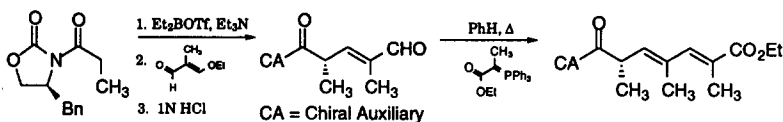
## GRAPHICAL ABSTRACTS

### AN APPROACH TO CHIRAL TRI-SUBSTITUTED OLEFINS: SYNTHESIS OF THE C(1)-C(7) SEGMENT OF HALICHOMYCIN

*Tetrahedron Letters*, 1997, 38, 303

Erin E. McCann, Glenn Janes, Craig Ortsey, and John L. Wood\*  
Sterling Chemistry Laboratory, Yale University, New Haven, Connecticut, 06520-8107

An efficient stereocontrolled procedure has been developed for constructing a precursor to the C(1)-C(7) segment of halichomycin.

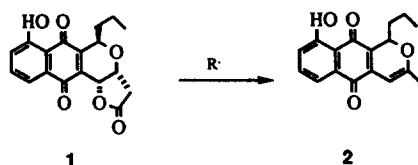


### An Unexpected Oxidative Decarboxylation Reaction of Frenolicin-B

*Tetrahedron Letters*, 1997, 38, 305

Susan D. Van Arnum and Nancy Stepsus, Vitamins Process Research and Development  
Hoffmann-La Roche Inc., Nutley, NJ 07110 and  
Barry K. Carpenter  
Cornell University, Ithaca, NY 14853

In the presence of free radicals, frenolicin-B (1) undergoes an unexpected oxidative decarboxylation reaction to afford 2 in an overall yield of 51%. Theoretical calculations support the proposed mechanism.

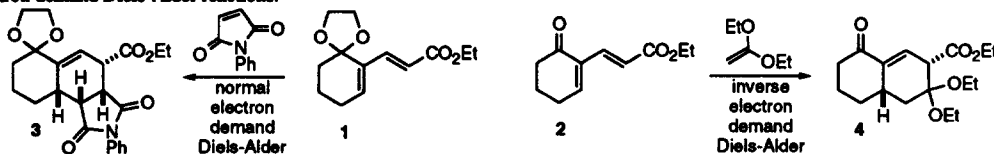


### ELECTRON DEFICIENT DIENES I. NORMAL AND INVERSE ELECTRON DEMAND DIELS-ALDER REACTIONS OF THE SAME

*Tetrahedron Letters*, 1997, 38, 309

CARBON SKELETON. Graham J. Bodwell\* and Zulan Pi. Department of Chemistry, Memorial University of Newfoundland, St. John's, Newfoundland, Canada, A1B 3X7.

The presence or absence of the dioxolane protecting group in dienes 1 and 2 dictates whether they participate in normal or inverse electron demand Diels-Alder reactions.



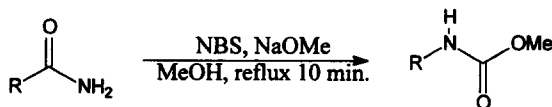
### PREPARATION OF METHYL CARBAMATES VIA A MODIFIED HOFMANN REARRANGEMENT

*Tetrahedron Letters*, 1997, 38, 313

Xicai Huang and Jeffrey W. Keillor\*

Département de chimie, Université de Montréal, C.P. 6128, Succursale centre-ville, Montréal, PQ H3C 1J7 CANADA

Reactions of carboxamides with NBS and NaOMe in methanol result in the formation of primary amino methyl carbamates.

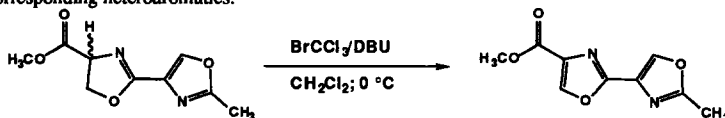




### STUDIES OF MILD DEHYDROGENATIONS IN HETEROCYCLIC SYSTEMS

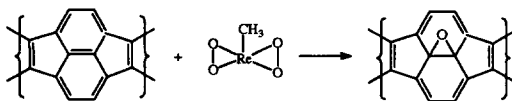
David R. Williams\*, Patrick D. Lowder, Yu-Gui Gu, and Dawn A. Brooks  
Department of Chemistry, Indiana University, Bloomington, Indiana 47405, U.S.A.

The use of bromotrichloromethane-DBU is described for the selective oxidative conversion of several dihydro-heterocyclic systems to the corresponding heteroaromatics.



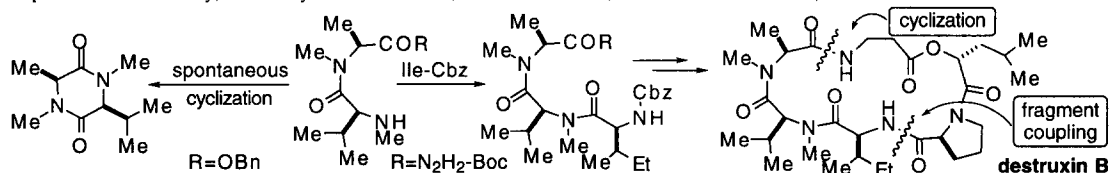
OXIDATION OF [60] FULLERENE BY THE METHYLTRIOXORHENIUM-HYDROGEN PEROXIDE SYSTEM. Robert W. Murray\* and Kaliappan Iyanar,  
Department of Chemistry, University of Missouri-St. Louis, St. Louis, MO 63121 USA

Reactions of MTO-H<sub>2</sub>O<sub>2</sub> system with C<sub>60</sub> give C<sub>60</sub>O and higher oxides.



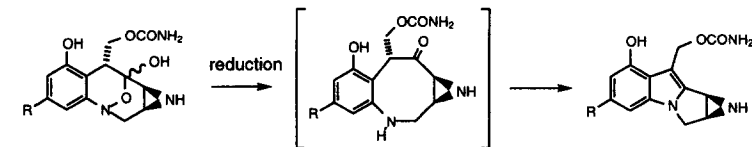
### Synthesis of the Host-Selective Phytotoxin Destruxin B. Avoiding Diketopiperazine Formation from an *N*-Methyl Amino Acid Dipeptide by Use of the Boc-Hydrazide Derivative.

Dale E. Ward\*, Ryszard Lazny, and M. Soledade C. Pedras\*  
Department of Chemistry, University of Saskatchewan, 110 Science Place, Saskatoon SK S7N 5C9, CANADA.



### DNA-DNA Interstrand Cross-Linking by FR66979 and FR900482: Requirement of Metal Ions During Reductive Activation.

Manuel M. Paz and Paul B. Hopkins\*, Department of Chemistry, University of Washington, Seattle, WA 98195  
Metal ions, probably iron(II), are found to be a previously unrecognized critical component of thiol- or dithionite-mediated reductive activation of 1 and 2.



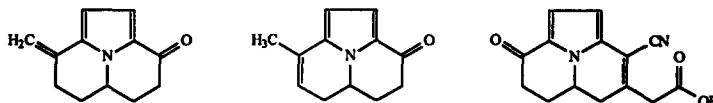
- 1 FR66979 R = CH<sub>2</sub>OH  
2 FR900482 R = CHO

3

**SYNTHESIS OF THE OCTAHYDRO-8b-AZAACENAPHTHYLENE RING SYSTEM, A PORTION OF THE DIMERIC COCCINELLID**

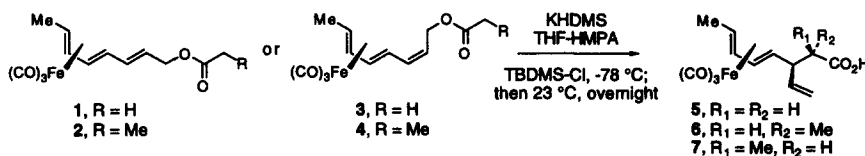
**ALKALOIDS.** James C. Shattuck, Department of Chemistry, University of Hartford, 200 Bloomfield Ave., W. Hartford, CT 06117 USA, Jerrold Meinwald\*, Department of Chemistry, Baker Laboratory, Cornell University, Ithaca, NY 14853 USA

Representatives of the octahydro-8b-azaacenaphthylene ring system have been synthesized and functionalized for possible use in a synthesis of the "dimeric" coccinellid alkaloids.



**DIASTEREOFACIALLY SELECTIVE ENOLATE CLAISEN REARRANGEMENTS OF [4-7- $\eta^4$ -(1-ACYLOXY-2,4,6-OCTATRIENYL)]TRICARBONYLIRON COMPLEXES**

W. R. Roush\* and A. B. Works, Department of Chemistry, Indiana University, Bloomington, IN 47405

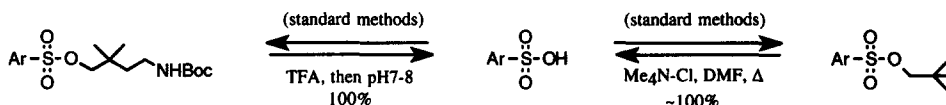


**Neopentyl Ester Protecting Groups for Arylsulfonic Acids**

John C. Roberts\*, Huai Gao, Ariamala Gopalsamy, Azis Kongsjahju and

Raymond J. Patch\*, *Department of Rational Drug Design, Procept Inc., 840 Memorial Drive, Cambridge, Massachusetts, 02139*

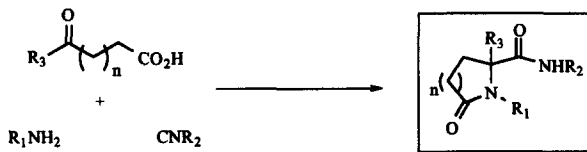
Arylsulfonic acid protecting groups are reported, one for standard organic chemistry and one for solid phase synthesis.



**A Solid-Phase Combinatorial Method for the Synthesis of Novel 5- and 6-Membered Ring Lactams.**

Kevin M. Short and Adnan M.M. Mjalli\*, *Ontogen Corporation, 2325 Camino Vida Roble, Carlsbad CA 92009*

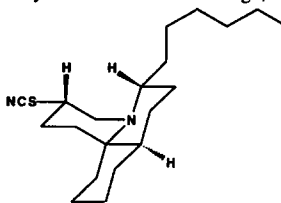
The synthesis of small-ring lactams via the condensation of  $\omega$ -ketoacids, isocyanides and amines is reported, both in solution- and solid-phase.



**Fasicularin, a Novel Tricyclic Alkaloid  
from the Ascidian *Naphteis fascicularis***

Ashok D. Patil,\* Alan J. Freyer, Rex Reichwein, Brad Carte, Lewis B. Killmer, Leo Faucette, and Randall K. Johnson  
Department of Biomolecular Discovery, SmithKline Beecham Pharmaceuticals, R & D, King of Prussia, Pennsylvania 19406-0939.  
D. John Faulkner at Scripps Institution of Oceanography, University of California at San Diego, La Jolla, CA, 92093-0212

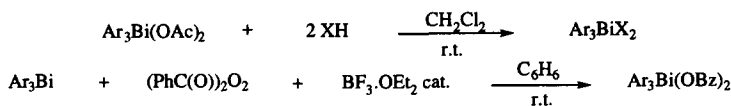
**Abstract:** A novel tricyclic alkaloid, fascicularin, was isolated from the Micronesian ascidian *Naphteis fascicularis*. The structure of fascicularin was elucidated primarily by interpretation of spectral data. Fascicularin was found to be active in DNA damaging assay.



**THE CHEMISTRY OF PENTAVALENT ORGANOBISMUTH  
REAGENTS. NEW PREPARATIVE METHODS FOR ARYL  
BISMUTH (V) CARBOXYLATES AND SULFONATES.**

Thomas Arnauld, Derek H. R. Barton\* and Eric Doris

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

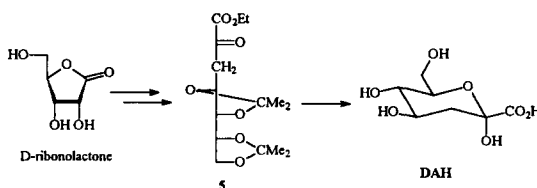


**A NEW AND CONCISE SYNTHESIS OF 3-DEOXY-D-ARABINO-  
2-HEPTULOPYRANOSONIC ACID (DAH) AND DERIVATIVES  
THROUGH THE RADICAL CHEMISTRY OF BARTON ESTERS**

Derek H. R. Barton\* and Wansheng Liu\*

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

DAH and its derivatives were synthesized from D-ribonolactone by a radical carbon-carbon bond formation reaction. The radical reaction gave diastereoselectively the desired intermediate 5 as the major product.

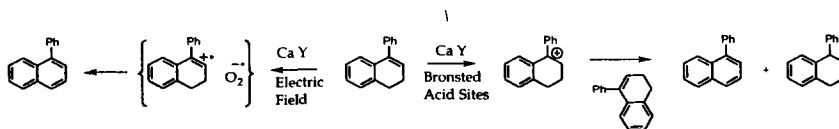


**CATION RADICAL AND CARBOCATION MEDIATED REACTIONS WITHIN CA Y ZEOLITE:  
1-PHENYL 3,4-DIHYDRONAPHTHALENE**

K. PITCHUMANI, P. H. LAKSHMINARASIMHAN, G. TURNER, M. G. BAKKER

AND V. RAMAMURTHY\* Department of Chemistry, Tulane University, New Orleans, LA 70118

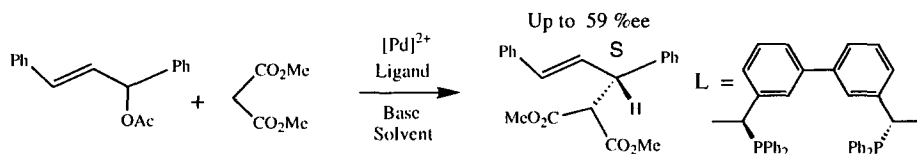
and Department of Chemistry, University of Alabama, Tuscaloosa, AL 35487



### Asymmetric Allylic Alkylation Catalyzed by Palladium Complexes with a New Chiral Bisphosphine Ligand

James M. Longmire, Guoxin Zhu, and Xumu Zhang\*

Department of Chemistry, Pennsylvania State University, University Park, PA 16802



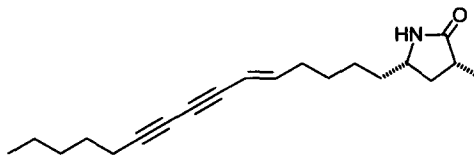
### ISOLATION, IDENTIFICATION AND DETERMINATION OF THE ABSOLUTE CONFIGURATION OF FISCHERELLIN B. A NEW ALGICIDE FROM THE FRESHWATER CYANOBACTERIUM *FISCHERELLA MUSCICOLA* (THURET).

Ulrich Papke<sup>a</sup>, Elisabeth M. Gross<sup>b</sup> and Wittko Francke<sup>a\*</sup><sup>a</sup>: Universität Hamburg, Institut für Organische Chemie,

Martin-Luther-King Platz 6, 20146 Hamburg, Germany

<sup>b</sup>: Max-Planck Institut für Limnologie, Abteilung für Ökophysiologie,

24320 Plön, Germany



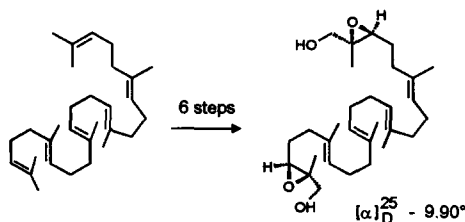
By means of spectroscopic methods, microreactions and partial synthesis, the structure of fischerellin B was determined to be (3*R*,5*S*)-3-methyl-5-((5*E*)-pentadec-5-ene-7,9-diynyl)-pyrrolidin-2-one.

### STEREOSELECTIVE SYNTHESIS OF 1,24-DIHYDROXY SQUALENE 2,3;22,23-DIOXIDES BY DOUBLE SHARPLESS EPOXIDATION

Roland Hauptfleisch and Burchard Franck\*

Organisch-Chemisches Institut, Universität Münster

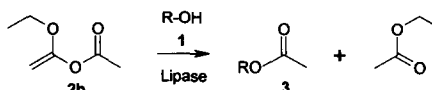
Corrensstraße 40, D 48149 Münster, Germany



### Enzyme Catalyzed Resolution of Alcohols using Ethoxyvinyl Acetate

Manfred Schudok and Gerhard Kretzschmar\*, Corporate Research &amp; Technology, Hoechst AG, D-65926 Frankfurt, Germany

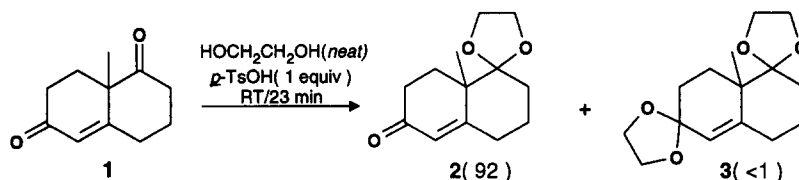
**Abstract:** 1-Ethoxyvinyl acetate is an efficient irreversible acyl transfer reagent for lipase catalyzed esterification in organic solvents. The use of this reagent avoids reactive by-products resulting in enzyme deactivation, in particular the formation of acetaldehyde using the widely employed vinyl acetate transesterification reagent.



**AN EFFICIENT, RAPID AND HIGHLY SELECTIVE PREPARATION OF THE WIELAND-MIESCHER KETONE-9-ETHYLENE KETAL**

Paola Ciceri and F. W. Joachim Demnitz\*

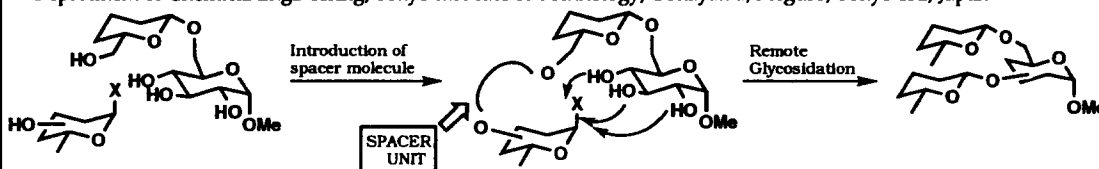
SANDOZ Pharma AG, Preclinical Research, CH-4002 Basel, Switzerland



**Synthesis of A Branched Oligosaccharide by Remote Glycosidation**

Haruo Yamada, Katsuaki Imamura, Takashi Takahashi

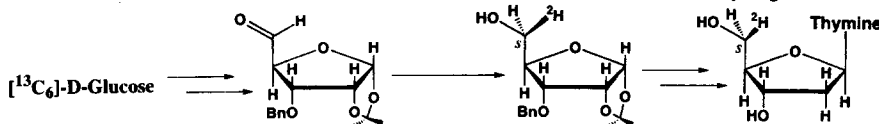
Department of Chemical Engineering, Tokyo Institute of Technology, Ookayama, Meguro, Tokyo 152, Japan



**SYNTHESIS OF (5'S)-[5'-<sup>2</sup>H;<sub>i</sub>;1',2',3',4',5'-<sup>13</sup>C<sub>1</sub>]-THYMIDINE via STEREOSELECTIVE DEUTERATION OF A 5-OXORIBOSE DERIVATIVE**

Akira (Mei) Ono, Akira Ono, Masatsune Kainosho\*, Department of Chemistry, Faculty of Science, Tokyo Metropolitan University, 1-1 Minami-ohsawa, Hachioji, Tokyo 192-03, Japan

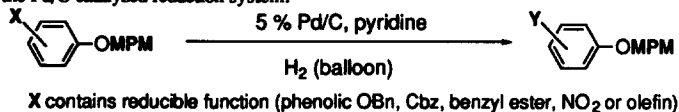
(5'S)-[5'-<sup>2</sup>H;<sub>i</sub>;1',2',3',4',5'-<sup>13</sup>C<sub>1</sub>]-Thymidine has been synthesized by a stereoselective deuteride transfer reaction from (-) or (+)-[2-<sup>2</sup>H<sub>i</sub>]-isobornyloxymagnesium bromide to a 5-oxoribose derivative, which can be readily prepared from [<sup>13</sup>C<sub>6</sub>]-D-glucose.



**CHEMOSELECTIVE INHIBITION OF THE HYDROGENOLYSIS OF THE MPM PROTECTIVE GROUP FOR PHENOLIC HYDROXY FUNCTIONS USING A Pd/C-PYRIDINE CATALYST**

Hironao Sajiki, Hiroko Kuno, and Kosaku Hirota\*  
Laboratory of Medicinal Chemistry, Gifu Pharmaceutical University, Mitahora-higashi, Gifu 502, Japan

A convenient method for the selective hydrogenation of phenolic benzyl ether, Cbz, benzyl ester, nitro and olefin functions distinguishing from the MPM (4-methoxybenzyl) protective group for the phenolic hydroxy groups was accomplished by the addition of pyridine to the Pd/C-catalyzed reduction system.

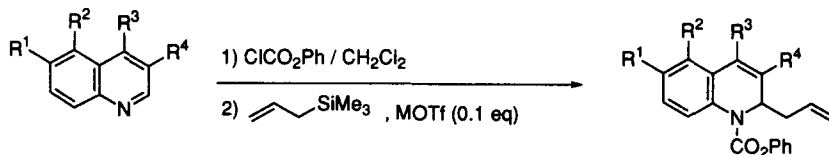


**TRIFLATE ION-PROMOTED ADDITION REACTIONS OF ALLYL-SILANE TO QUINOLINES AND ISOQUINOLINES ACYLATED BY CHLOROFORMATE ESTERS**

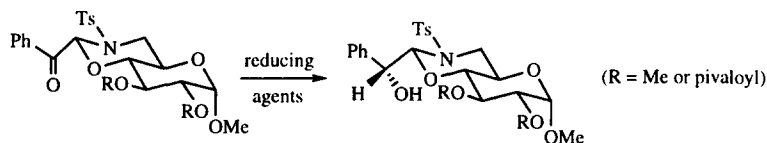
Ryohei Yamaguchi,\* Bunpei Hatano, Tatsuya Nakayasu, and Sinpei Kozima

Department of Natural and Environment Sciences, Faculty of Integrated Human Studies, and

Graduate School of Human and Environmental Studies, Kyoto University, Yoshida, Kyoto 606-01, Japan


**DIASTEREOSELECTIVE REDUCTION OF CHIRAL N-TOSYL 2-BENZOYL-1,3-OXAZINES DERIVED FROM D-GLUCOSE**

Kwang-Youn Ko\* and Jong-Yek Park, Department of Chemistry, Ajou University, Suwon 442-749, Korea

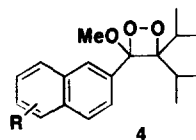
Reduction of *N*-tosyl 2-benzoyl-1,3-oxazines derived from D-glucose with chelating agents proceeds according to the Cram's chelation model where the ring oxygen atom (not the tosyl oxygen atom) is involved in chelation.
**SYNTHESIS AND CHEMILUMINESCENCE OF 3,3-DIISOPROPYL-4-METHOXY-4-(2-NAPHTHYL)-1,2-DIOXETANES.**

Masakatsu Matsumoto,\* Nobuko Watanabe, Hisako Kobayashi, Mitsunori

Azami, and Hiroshi Ikawa, Department of Materials Science, Kanagawa University, Tsuchiya, Hiratsuka, Kanagawa 259-12,

Japan; Central Research Laboratories, Fujirebio, Komiya, Hachioji, Tokyo 192, Japan

Six isomeric 3,3-diisopropyl-4-methoxy-4-(2-naphthyl)dioxetanes (**4**) were synthesized and their F<sup>-</sup>-induced chemiluminescence were examined in DMSO. A dioxetane **4b** is a new type of chemiluminescent substrate affording intense flash light. The other isomeric naphthyldioxetanes (**4c-f**) exhibit chemiluminescent properties in agreement with the 'odd/even' relationship.

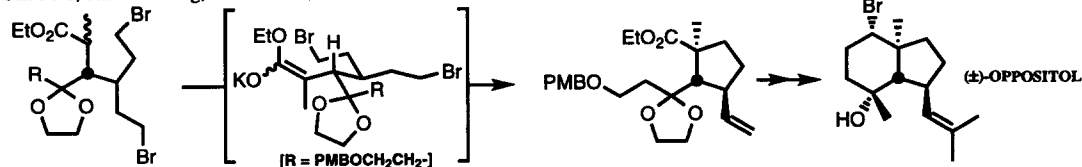


- 4a: R = 3-TBDMSO  
 4b: R = 4-TBDMSO  
 4c: R = 5-TBDMSO  
 4d: R = 6-TBDMSO  
 4e: R = 7-TBDMSO  
 4f: R = 8-TBDMSO

**A STEREOSELECTIVE TOTAL SYNTHESIS OF (±)-OPPOSITOL BY A DOUBLY DIASTEREOSELECTIVE INTRAMOLECULAR ESTER ENOLATE ALKYLATION**

Deukjoon Kim\* and In Ho Kim, College of Pharmacy, Seoul National University

San 56-1, Shinrim-Dong, Kwanak-Ku, Seoul 151-742, Korea

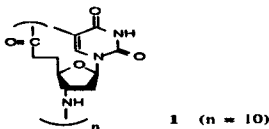




**NUCLEIC ACID ANALOG PEPTIDE (NAAP)  
SOLID PHASE SYNTHESIS OF A DNA ANALOG PEPTIDE**

Masayuki Fujii,\* Koji Yamamoto, and Jinsai Hidaka, Department of Industrial Chemistry, Faculty of Engineering in Kyushu, Kinki University, 11-6 Kayanomori, Iizuka, Fukuoka 820, Japan. Takayuki Ohtsu, Department of General Education, Faculty of Biological Science and Engineering, Kinki University, 930 Nishimitani, Uchida, Naka-gun, Wakayama 649-64, Japan

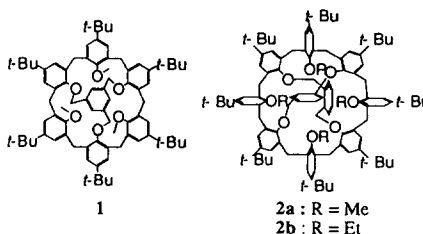
Solid phase synthesis of a nucleic acid analog peptide (NAAP) was achieved by using Boc-chemistry in 21 % overall yield.



**THERMODYNAMIC STUDIES OF SLOW METAL  
EXCHANGE PROCESSES IN IONOPHORIC  
CALIX[N]ARENES WITH A CAPSULE-LIKE CLOSED  
CAVITY**

Yoshio Suzuki, Hideyuki Otsuka, Atsushi Ikeda, and Seiji Shinkai\*  
Department of Chemical Science & Technology, Faculty of  
Engineering, Kyushu University, Fukuoka 812, Japan

In a triply-capped calix[6]arene (1) and doubly-bridged calix[8]arene (2a and 2b) with a closed ionophoric cavity the Cs<sup>+</sup> complexation occurs *very slowly* in a human time-scale and can be followed by a conventional spectroscopic method.

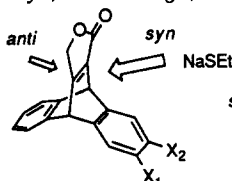


**NON-STERIC FACIAL SELECTIVITY IN  
NUCLEOPHILIC 1,4-CONJUGATE ADDITIONS.**

Iwao Okamoto, Tomohiko Ohwada,\* and Koichi Shudo

Faculty of Pharmaceutical Sciences, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan

The effect of a remote substituent on the facial selectivity in a nucleophilic 1,4-conjugate addition was investigated. A nitro substituent favored *syn*-addition. Polar solvents increased the magnitude of the selectivity.



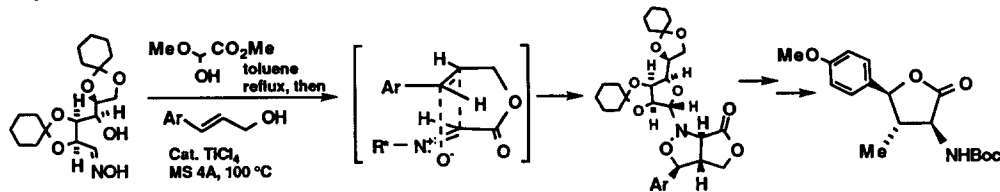
syn : anti = 79 : 21  
(X<sub>1</sub>=H, X<sub>2</sub>=NO<sub>2</sub>)

**INTRAMOLECULAR CYCLOADDITION OF α-ALLYLOXY-  
CARBONYLNITRONE BEARING A CHIRAL SUGAR AUXILIARY:**

**A SHORT-STEP SYNTHESIS OF THE N-TERMINAL AMINO ACID COMPONENT OF NIKKOMYCIN Bz.**

Osamu Tamura,\* Naka Mita, Noriko Kusaka, Hirohide Suzuki, and Masanori Sakamoto\*

Meiji College of Pharmacy, 1-35-23 Nozawa, Setagaya, Tokyo 154, Japan

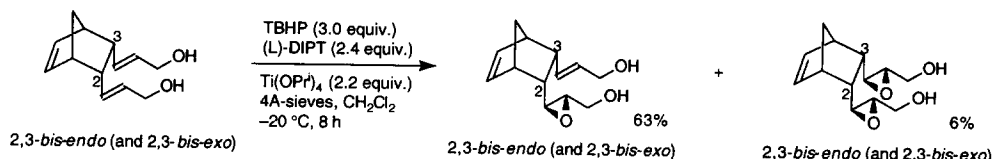


**SPECIFIC ASYMMETRIC MONO-EPOXIDATION OF Meso 2,3-SYN-BIS-ALLYLIC ALCOHOLS HAVING A BICYCLO[2.2.1]-HEPTANE FRAMEWORK**

Takahiko Taniguchi and Kunio Ogasawara

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

*Tetrahedron Letters*, 1997, 38, 433



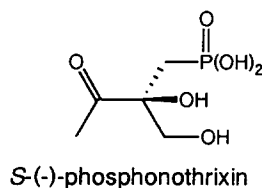
**ENANTIOSELECTIVE SYNTHESIS OF PHOSPHONOTHRIXIN AND ITS ABSOLUTE STEREOCHEMISTRY**

K. Nakamura and S. Yamamura

Dept. of Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi, Yokohama 223, Japan

Enantioselective synthesis of phosphonothrixin is described, indicating that natural phosphonothrixin has *S* configuration.

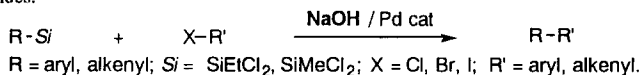
*Tetrahedron Letters*, 1997, 38, 437



**NaOH-PROMOTED CROSS-COUPLING REACTIONS OF ORGANO-SILICON COMPOUNDS WITH ORGANIC HALIDES: PRACTICAL ROUTES TO BIARYLS, ALKENYLARENES AND CONJUGATED DIENES**

Emiko Hagiwara, Ken-ichi Gouda, Yasuo Hatanaka,\* and Tamejiro Hiyama,† Sagami Chemical Research Center, 4-4-1 Nishiohnuma, Sagamihara, Kanagawa, 229, Japan. †Research Laboratory of Resources Utilization, Tokyo Institute of Technology, 4259 Nagatsuda, Midori-ku, Yokohama, 226, Japan

The use of NaOH was found to be extremely effective in promoting the palladium-catalyzed cross-coupling reaction of organosilicon compounds with organic halides.



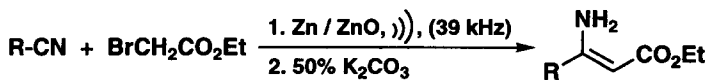
*Tetrahedron Letters*, 1997, 38, 439

**A Simple and Highly Efficient Synthesis of  $\beta$ -Amino- $\alpha,\beta$ -unsaturated Ester via Sonochemical Blaise Reaction**

Adam Shih-Yuan Lee\* Rae-Yi Cheng and Ohm-Guo Pan  
Department of Chemistry, Tamkang University, Tamsui, Taiwan 25137

$\beta$ -Amino- $\alpha,\beta$ -unsaturated ester is produced by a sonochemical Blaise reaction of nitrile, zinc powder, zinc oxide and ethyl bromoacetate in anhydrous THF in a commercial ultrasonic cleaning bath.

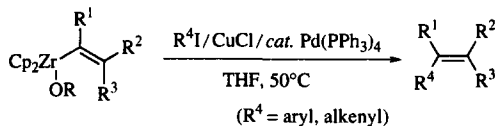
*Tetrahedron Letters*, 1997, 38, 443



**COUPLING REACTIONS OF ALKENYLZIRCONOCENES WITH ARYL OR ALKENYL IODIDES IN THE PRESENCE OF  $\text{CuCl}/\text{Pd}(\text{PPh}_3)_4$ .**

Ryuichiro Hara, Yasushi Nishihara, Philippe D. Landré and Tamotsu Takahashi,\* Catalysis Research Center and Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060, Japan

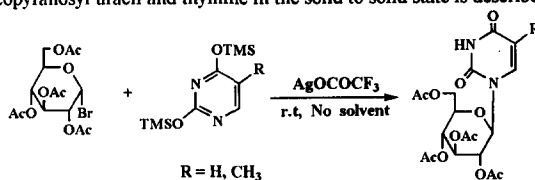
Reactions of alkenylzirconocenes with aryl iodides in the presence of  $\text{CuCl}/\text{cat. Pd}(\text{PPh}_3)_4$  gave coupling products.



***N*-Glycosylation Reactions in the Solid to Solid State.** Juwon Im, Jaechul Kim, Sukjin Kim, Bosup Hahn,\* and Fumio Toda†, Department of Chemistry,

Ajou University, Suwon 442-749, Korea, †Department of Industrial Chemistry, Ehime University, Matsuyama 790, Japan

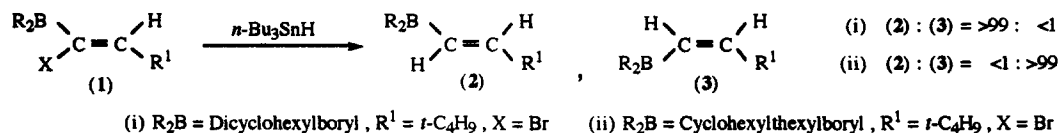
A method for synthesis of *N*-glycopyranosyl uracil and thymine in the solid to solid state is described.



**STERESELECTIVE DEHALOGENATION OF (Z)-1-HALO-1-ALKENYLDIALKYLBORANE WITH TRIBUTYLTIN HYDRIDE: THE BEHAVIOR OF TRIBUTYLTIN HYDRIDE AS A HYDRIDE DONOR**

Masayuki Hoshi,\* Kimitomo Takahata and Akira Arase

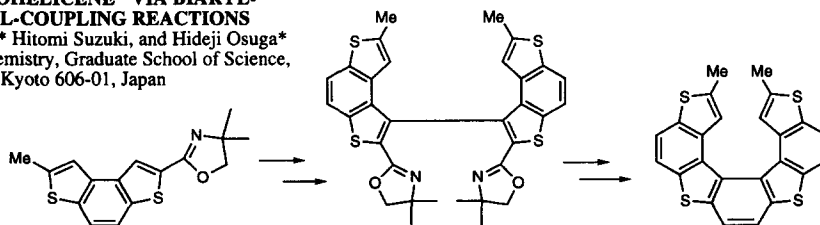
Department of Applied and Environmental Chemistry, Kitami Institute of Technology, 165 Koen-cho, Kitami 090, Japan



**A NOVEL ROUTE TO DISUBSTITUTED [7]THIAHETEROHELICENE VIA BIARYL- AND CARBONYL-COUPLING REACTIONS**

Kazuhiko Tanaka,\* Hitomi Suzuki, and Hideji Osuga\*

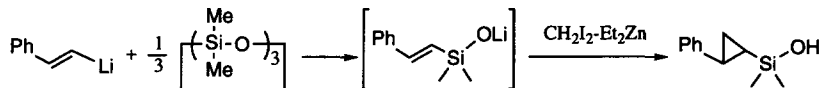
Department of Chemistry, Graduate School of Science, Kyoto University, Kyoto 606-01, Japan



### SYNTHESIS OF CYCLOPROPYLSILANOLS BY THE SIMMONS-SMITH REACTION OF ALKENYLSILANOLS AND LITHIUM ALKENYLSILANOLATES.

Kazunori Hirabayashi, Atsunori Mori,\* and Tamejiro Hiyama  
Research Laboratory of Resources Utilization, Tokyo Institute of Technology, Nagatsuta, Yokohama 226, JAPAN

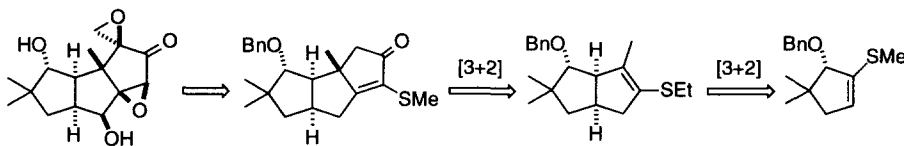
Alkenylsilanols and the corresponding lithium silanolates prepared in situ by the reaction of cyclic siloxane with alkenyl lithium are transformed to the corresponding cyclopropylsilanols under the Simmons-Smith conditions.



### HIGHLY EFFICIENT METHOD FOR CORIOLIN SYNTHESIS

Kei Domon, Keiichi Masuya, Keiji Tanino, and Isao Kuwajima\*

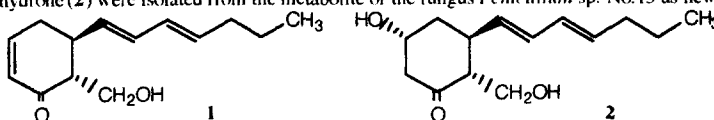
Department of Chemistry, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan



### PENIENONE AND PENIHYDRONE, NEW PLANT GROWTH REGULATORS PRODUCED BY THE FUNGUS, *PENICILLIUM* SP. NO.13.

Yasuo Kimura\*, Takashi Mizuno, Department of Agricultural Chemistry, Tottori University, Koyama, Tottori 680, Japan, Atsumi Shimada, Department of Environmental Chemistry, Kyushu Kyoritsu University, Kitakyushu-si, Fukuoka 805, Japan

Penienone (1) and penihydrone (2) were isolated from the metabolite of the fungus *Penicillium* sp. No.13 as new plant growth regulators.

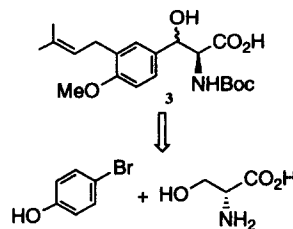


### FIRST SYNTHESIS OF (2S, 3S)- AND (2S, 3R)- m-PRENYL-β-HYDROXYTYROSINE DERIVATIVES: BIOACTIVE AMINO ACID FRAGMENT OF A SUBSTANCE P ANTAGONIST NOVEL CYCLIC HEPTAPEPTIDE

Jalluri S. Ravi Kumar and Apurba Datta\*

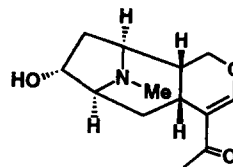
Organic III, Indian Institute of Chemical Technology, Hyderabad - 500 007, India

A stereodefined synthesis of both the C-3 isomers of the novel amino acid 3 is described.



**ANGUSTIMALINE, AN UNUSUAL NITROGENOUS COMPOUND FROM *ALSTONIA ANGUSTIFOLIA***

Toh-Seok Kam\*, R. Jayashankar, Kooi-Mow Sim and K. Yoganathan  
Department of Chemistry, University of Malaya, 59100 Kuala Lumpur, Malaysia.

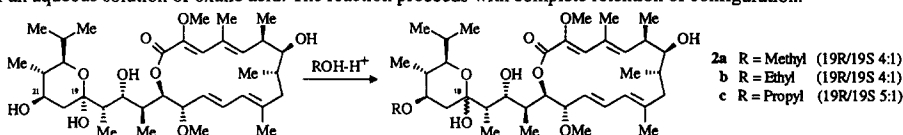


An unusual nitrogenous compound probably derived from a macroline-type precursor was obtained from the stem-extract of *Alstonia angustifolia*

**An Unusually Facile Preparation of 21-Alkoxyderivatives of Bafilomycin A<sub>1</sub>**

Stefania Gagliardi, Pier Andrea Gatti, Alberto Cerri and Carlo Farina\*  
SmithKline Beecham SpA, Via Zambelletti, 20021 Baranzate, Milan (Italy).

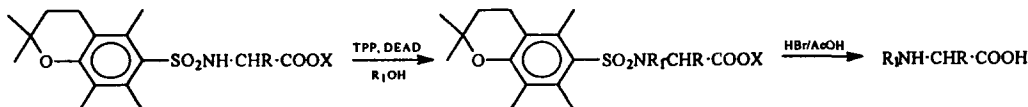
21-Alkoxy derivatives of bafilomycin A<sub>1</sub> can be obtained easily by treatment of bafilomycin A<sub>1</sub> with linear, primary alcohols in the presence of an aqueous solution of oxalic acid. The reaction proceeds with complete retention of configuration.



**PMC-PROTECTED AMINO ACID ESTERS AS SUBSTRATES IN N-ALKYLAMINO ACID SYNTHESIS.** Kazimierz Wiśniewski,

Aleksandra S. Kołodziejczyk, Faculty of Chemistry, University of Gdańsk, Sobieskiego 18, 80-952 Gdańsk, Poland

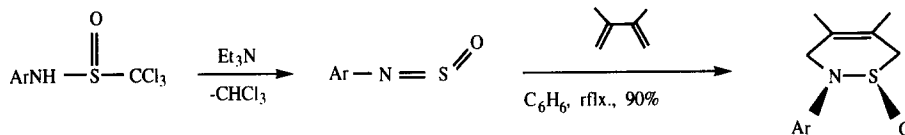
N-(2,2,5,7,8-pentamethylchroman-6-sulphonyl)-amino acid esters were tested as substrates in N-alkylamino acids synthesis under the Mitsunobu reaction conditions.



**A NEW SYNTHESIS OF N-SULFINYLAMINES VIA β-ELIMINATION OF CHLOROFORM FROM TRICHLOROMETHANESULFINAMIDES.** Samuel Braverman and Marina Cherkinsky, Department of Chemistry,

Bar-Ilan University, Ramat-Gan 52900, Israel.

A new and general synthesis of N-sulfinylamines *via* a mild and quantitative base-induced β-elimination of chloroform is described. The reaction is of considerable mechanistic interest, and can be used for the preparation of other heterocumulenes as well.

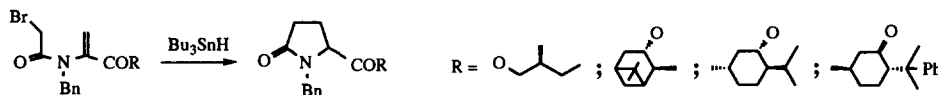


**A DIASTERESELECTIVE RADICAL CYCLISATION APPROACH TO PYROGLUTAMATES**

Karen Goodall and Andrew F Parsons\*

Department of Chemistry, University of York, Heslington, York, YO1 5DD

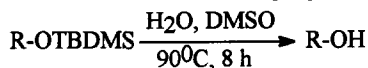
Radical cyclisation of pyruvic acid derived dehydroalanines containing chiral ester auxiliaries is reported. Cyclisation of the 8-phenylmethyl ester at 20°C gave the pyroglutamate in a 6:1 diastereomer ratio.


**A MILD AND EFFICIENT METHOD FOR THE SELECTIVE CLEAVAGE OF TERT-BUTYLDIMETHYLSILYL ETHERS TO ALCOHOLS**

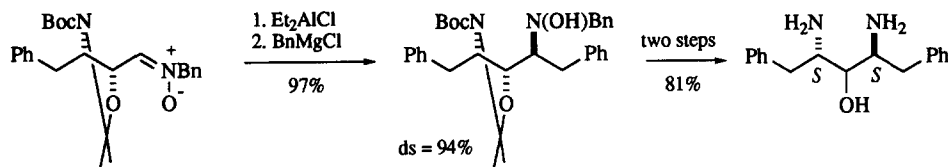
Gourhari Maiti and Subhas Chandra Roy\*

Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta - 700 032, India.

Primary allylic and homoallylic, primary benzylic and aryl TBDMS ethers were selectively desilylated in the presence of other primary and secondary TBDMS ethers. Other sensitive functional groups remained unaffected.


**STEREOCONTROLLED SYNTHESIS OF PSEUDO C<sub>2</sub>-SYMMETRIC 1,3-DI-AMINO-2-PROPANOL CORE UNITS OF HIV PROTEASE INHIBITORS**

A. Dononi,\* D. Perrone, Dipartimento di Chimica, Università di Ferrara, Italy



The (*R,R*) isomer is accessible from the antipode nitron