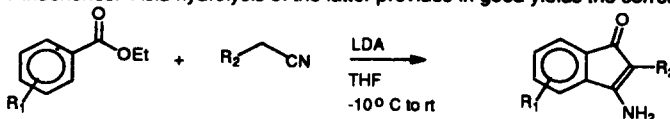


## GRAPHICAL ABSTRACTS

*Tetrahedron Letters*, 1997, 38, 8121

**A NEW ANIONIC CYCLIZATION REACTION: CONDENSATION OF BENZOATE ESTERS WITH NITRILES TO GIVE 3-AMINO-2-INDEN-1-ONES.** Nadim E. Kayaleh, Ramesh C. Gupta, John F. Morrissey, and Francis Johnson, Department of Chemistry, State University of New York at Stony Brook, Stony Brook, NY 11790-3400 USA

The reaction between substituted ethyl (or methyl) benzoates and phenyl acetonitriles or alkyl nitriles in the presence of an excess of LDA leads to 3-amino-1-indenones. Acid hydrolysis of the latter provides in good yields the corresponding indandiones.



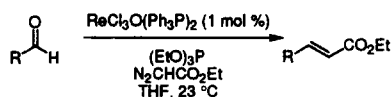
*Tetrahedron Letters*, 1997, 38, 8125

**Synthesis of Unsaturated Esters from Aldehydes: An Inexpensive, Practical Alternative to the Horner–Emmons Reaction under Neutral Conditions**

Brian E. Ledford and Erick M. Carreira\*

Arnold and Mabel Beckman Laboratory for Chemical Synthesis  
Division of Chemistry and Chemical Engineering  
California Institute of Technology, Pasadena, California 91125

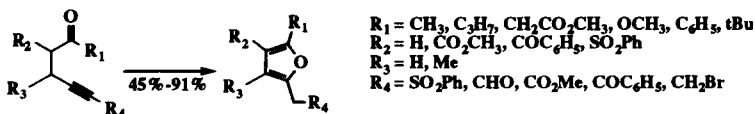
A practical, efficient, mild process is described for the synthesis of unsaturated esters from aldehydes in good yields and diastereoselectivities. All of the reagents used are commercially available at a nominal price:  $N_2CHCO_2Et$ , catalytic (1 mol %)  $ReOCl_3(PPh_3)_2$ , and  $(EtO)_3P$ . Additionally, the reaction process can be carried out successfully with reagent-grade solvent and reagent without purification.



**RAPID AND FACILE SYNTHESIS OF HIGHLY SUBSTITUTED FURANS.**

David I. MaGee\* and James D. Leach, Department of Chemistry, Bag Service #45222, University of New Brunswick, Fredericton, New Brunswick, Canada, E3B 6E2.

A short and efficient synthesis of highly substituted furans has been accomplished. The method is amenable for the production of 2,5-di-, 2,3,5-tri- and 2,3,4,5-tetrasubstituted furan compounds containing multiple functionalities.



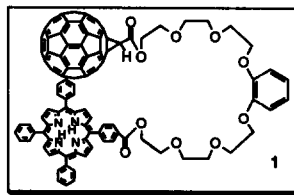
*Tetrahedron Letters*, 1997, 38, 8133

**SYNTHESIS AND PHOTOPHYSICS OF A NOVEL PORPHYRIN- $C_{60}$  HYBRID**

Igor G. Safonov, Phil S. Baran, and David I. Schuster\*

Department of Chemistry, New York University, New York, NY 10003

The amphiphilic hybrid **1** was found to be slightly soluble in DMSO, displayed a lower affinity for metal cations than expected, and had a surprisingly high quantum yield ( $\Phi_\Delta$ ) for formation of singlet oxygen ( $^1O_2$ ).

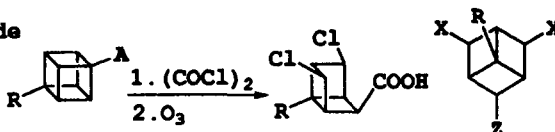


**NORCUBANES FROM CUBANES. NOVEL REACTION OF AMIDOCUBANES WITH OXALYL CHLORIDE.**

*Tetrahedron Letters, 1997, 38, 8137*

A. Bashir-Hashemi<sup>1</sup>, N. Gelber,<sup>2</sup> R. Gilardi<sup>3</sup>; <sup>1</sup>GEO-CENTERS, INC. at ARDEC, B.3028, <sup>2</sup>Picatinny Arsenal, NJ 07860; <sup>3</sup>Laboratory For The Structure Of Matter, NRL, Washington, D.C.20375

Amidocubanes react with oxalyl chloride to give substituted norcubanes.



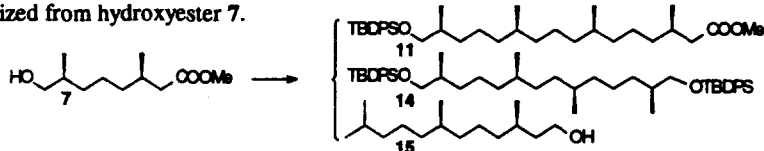
**Synthesis of Archaeobacterial Lipid C<sub>20</sub> Chirons**

*Tetrahedron Letters, 1997, 38, 8141*

William F. Berkowitz\* and Yanzhong Wu

Department of Chemistry and Biochemistry, Queens College, CUNY, 65-30 Kissena Blvd., Flushing, NY 11367

Archaeobacterial membrane lipid C<sub>20</sub> chirons 11 and 14, and Vitamin E side chain 15 were synthesized from hydroxyester 7.



**A Self-Adjusting Carbohydrate Ligand for GalNAc Specific Lectins**

*Tetrahedron Letters, 1997, 38, 8145*

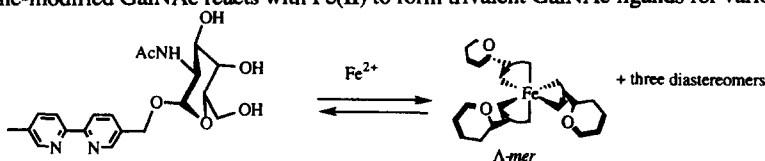
Shin Sakai<sup>‡, #</sup>, Yoshihiro Shigemasa<sup>‡</sup>, Tomikazu Sasaki<sup>\*</sup>

<sup>\*</sup> Department of Chemistry, BG-10, University of Washington, Seattle, WA 98195, USA;

<sup>‡</sup> Department of Materials Science, Faculty of Engineering, Tottori University, Koyama-cho, Tottori

680, JAPAN; <sup>#</sup> Tomey Technology Co., 2-11-33, Noritakeshinmachi, Nishi-ku, Nagoya 451, JAPAN

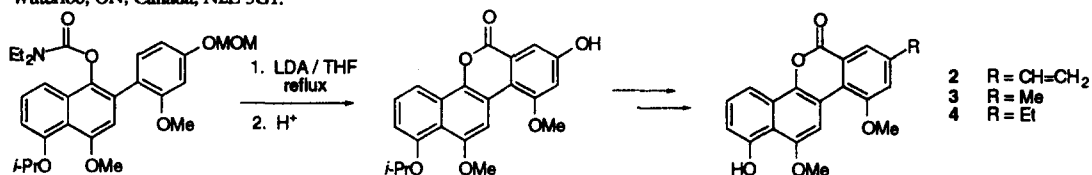
Bipyridine-modified GalNAc reacts with Fe(II) to form trivalent GalNAc ligands for various lectins.



**COMBINED DIRECTED METALATION - CROSS COUPLING STRATEGIES. TOTAL SYNTHESIS OF THE AGLYCONES OF GILVOCARCIN V, M AND E.**

*Tetrahedron Letters, 1997, 38, 8149*

Victor Snieckus\* and Clint James, Guelph-Waterloo Center for Graduate Work in Chemistry, Waterloo, ON, Canada, N2L 3G1.

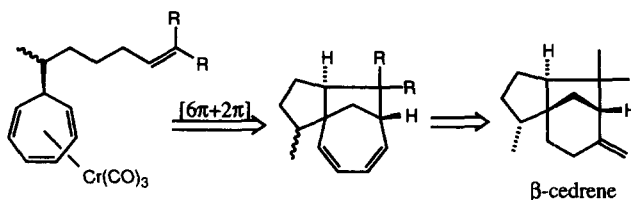


**Studies on Intramolecular Cr(0)-Promoted  
[6π+2π] Cycloaddition Reactions.  
Synthesis of β-Cedrene**

*Tetrahedron Letters*, 1997, 38, 8153

James H. Rigby\* and Margarita Kirova-Snover  
Department of Chemistry, Wayne State University,  
Detroit, MI 48202-3489, USA

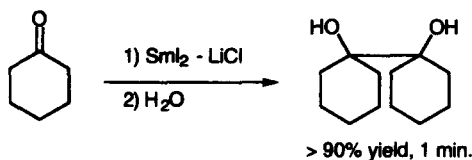
Intramolecular metal-promoted [6π+2π]  
cycloaddition followed by Ti(III)-mediated oxidative  
ring contraction affords β-cedrene.



**The Effect of Lithium Bromide and Lithium Chloride on the Reactivity of SmI<sub>2</sub>  
in THF. James R. Fuchs, Michael L. Mitchell, Masangu Shabangi and Robert A. Flowers, II\***  
Department of Chemistry, University of Toledo, Toledo, OH 43606 USA

*Tetrahedron Letters*, 1997, 38, 8157

The influence of LiBr and LiCl on the reducing power of SmI<sub>2</sub> in THF is reported.

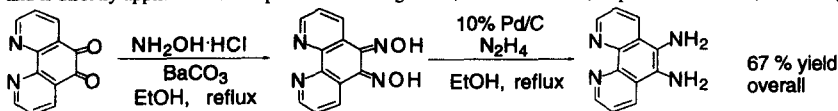


**SYNTHESIS OF FREE AND RUTHENIUM COORDINATED  
5,6-DIAMINO-1,10-PHENANTHROLINE**

Swamy Bodige and Frederick M. MacDonnell\*, Department of Chemistry and Biochemistry  
The University of Texas at Arlington, Arlington, Texas 76019

*Tetrahedron Letters*, 1997, 38, 8159

A new preparative route to 1,10-phenanthroline-5,6-diamine is described which triples existing yields  
and is directly applicable to complexes containing the N,N-coordinated 1,10-phenanthroline-5,6-dione ligand.

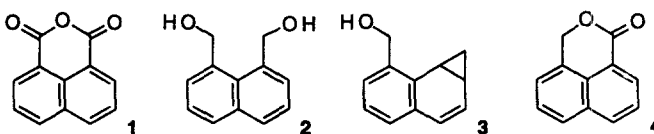


**THE SINGULAR REDUCTION OF 1,8-bis-HYDROXYMETHYL  
NAPHTHALENE TO A BENZONORCARADIENE BY LiAlH<sub>4</sub>.**

Janeta V. Popovici-Müller and Thomas A. Spencer,\* Department of Chemistry, Dartmouth College, Hanover, NH 03755 USA

Reduction of anhydride 1 with LiAlH<sub>4</sub> in THF  
yields, in addition to diol 2, benzonorcaradiene 3.  
Extended LiAlH<sub>4</sub> treatment of 2 or lactone 4  
affords ~65% of 3.

*Tetrahedron Letters*, 1997, 38, 8161

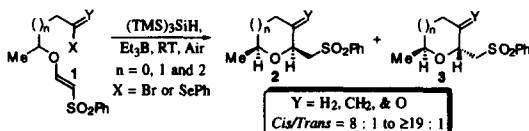


### Vinylogous Sulfonates as Radical Acceptors for the Stereoselective Synthesis of Cyclic Ethers

P. Andrew Evans\* and Thara Manangan

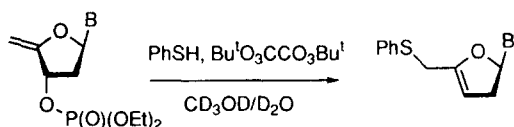
Brown Laboratory, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716.

Treatment of the *E*-vinylogous sulfonates **1** with tris(trimethylsilyl)silane and triethylborane, in the presence of air, at room temperature furnished the cyclic ethers **2/3** in 34-99% yield with  $\geq 8 : 1$  *cis*-diastereoselectivity.



### Nucleotide C4' Radical Fragmentation is Base-Dependent

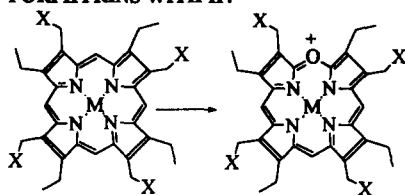
D. Crich and X.-S. Mo, Dept of Chemistry, University of Illinois at Chicago, 845 W. Taylor, Chicago, IL 60607-7061, USA



The relative rate of fragmentation is



### A NEW METHOD FOR THE PREPARATION OF OXAPORPHYRINS: REACTION OF METALLOPORPHYRINS WITH IF.



M=Cu, Cu, Zn; X=H, CH<sub>3</sub>, CO<sub>2</sub>CH<sub>3</sub>

Hasrat Ali and Johan E. van Lier,\* MRC Group in the Radiation Sciences, Faculty of Medicine, University of Sherbrooke, Sherbrooke (Québec), Canada J1H 5N4

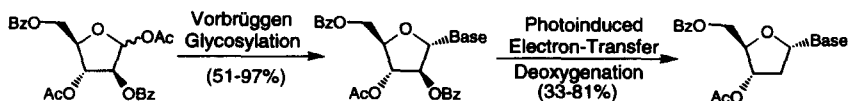
Reaction of metallo porphyrin with N-iodosuccinimide and TEA.3HF gave oxaporphyrin (verdoheme).

### Stereocontrolled Synthesis of $\alpha$ -2'-Deoxyribonucleosides

Zhiwei Wang and Carmelo J. Rizzo\*

Department of Chemistry; Box 1822, Station B; Vanderbilt University; Nashville, TN 37235

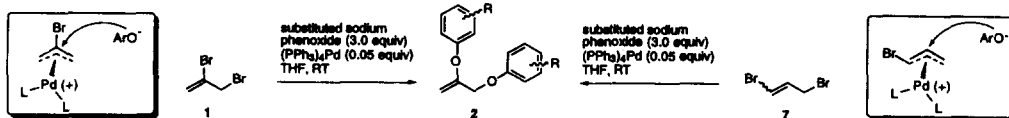
A stereocontrolled, de novo synthesis of  $\alpha$ -2'-deoxynucleosides is reported. The key step is the use of a benzoate at C2 of arabinose to direct the Vorbrüggen glycosylation. This group also serves as a deoxygeantion precursor.



**New Reactions Involving Palladacyclobutanes:****The Attack of Phenoxide Ion on the Central Carbon of**

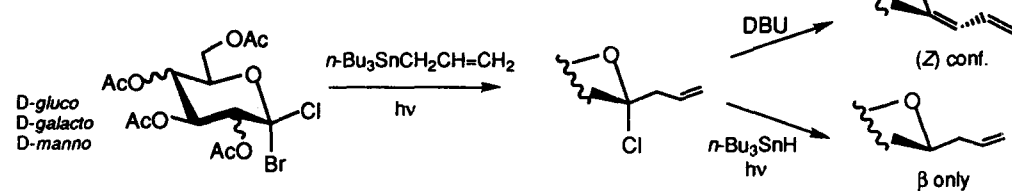
**Both 1- and 2-Bromo( $\pi$ -Allyl)palladium Complexes.** Michael G. Organ and Michael Miller, Department of Chemistry, York University, 4700 Keele Street, North York, Ontario, Canada, M3J 1P3 and the Department of Chemistry, Indiana University-Purdue University at Indianapolis, 402 N. Blackford St., Indianapolis, IN, USA, 46202.

Nucleophilic attack of phenoxide ion occurs primarily at the central carbon of halo-substituted ( $\pi$ -allyl)Pd complexes.


**A STEREOCONTROLLED RADICAL ACCESS TO C-ALLYL  $\beta$ -D-GLYCOPYRANOSIDES FROM GLYCOPYRANOSYLIDENE DIHALIDES FOUND EN ROUTE TO C-GLYCODIENES**

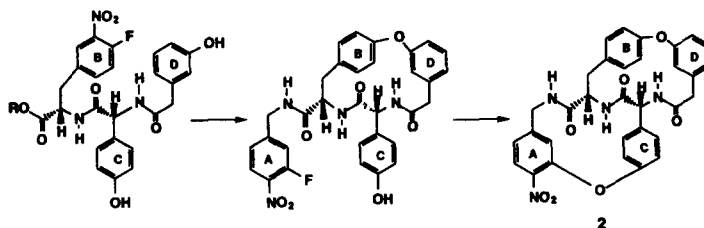
J.-P. Praly, G.-R. Chen, J. Goia, G. Hetzer, C. Raphoz

Université Claude-Bernard Lyon I, UMR CNRS-Université n° 5622, CPE-Lyon, Bât. 308, 43, Boulevard du 11 Novembre 1918, 69622 Villeurbanne - France


**The First Synthesis of 16+15-Membered Bicyclic Polypeptide Model of A-O-C-B-O-D Rings of Kistamicin**

René Beugelmans, Eduardo González Zamora and Georges Roussi

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

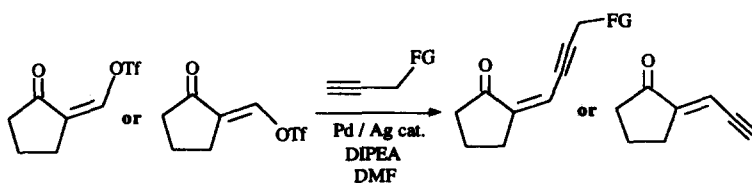

**SYNTHESIS OF ENYNES RELATED TO NEOCARZINOSTATINE USING THE NEW Pd/Ag CATALYZED COUPLING REACTION**

P. Bertus, P. Pale,\*

Laboratoire de chimie organique physique, associé au CNRS, Université de Reims-Champagne-Ardenne, 51100 Reims, France.

Laboratoire de synthèse et réactivité organique, Institut Le Bel, Université L. Pasteur, 67000 Strasbourg, France

Both E and Z isomers of 2-triflyloxymethylencyclopentanone respectively, have been coupled with various functionalized acetylenes in the presence of the Pd/Ag set of catalysts. Various E or Z 2-(alkynyl)methylencyclopentanone derivatives, versatile intermediates toward NCS-Chrom and analogs, are stereoselectively obtained



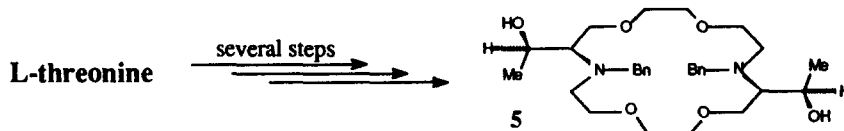
### Easy Synthesis of a New $C_2$ -Symmetric Diaza-crown Ether from L-Threonine.

Jean-Pierre Joly<sup>a</sup> and Gerhard Schröder<sup>b</sup>

a) Laboratoire de Chimie Organique 3, Université de Nancy I, BP 239, F-54506 Vandœuvre-lès-Nancy, France;

b) Institut für Organische Chemie der Universität Karlsruhe, Richard-Willstätter-Allee-2, D-76128 Karlsruhe, Germany.

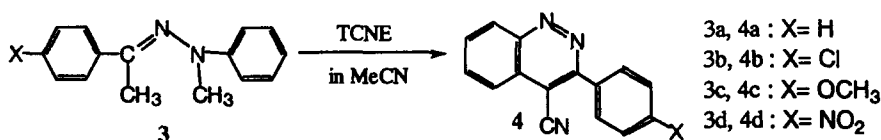
The self-condensation of a contrafunctional amine yielded the  $C_2$ -symmetric diaza-crown ether 5:



### A NOVEL SYNTHESIS OF 1,2-DIAZANAPHTHALENES.

Yoshio Matsubara, Akihiro Horikawa and Zen-ichi Yoshida\*, Department of

Applied Chemistry, Faculty of Science and Engineering, Kinki University, 5-4-1, Kowakae, Higashi-Osaka 577, Japan



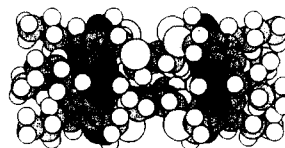
### CONFORMATIONAL STUDY OF A RIGID-STRUCTURED OCTATHIABISCAVITAND FROM [2 + 2] COUPLING OF CAPS AND BRIDGING UNITS.

Jungbai Lee,<sup>a</sup> Kihang Choi<sup>b</sup>

and Kyungsoo Paek\*,<sup>a</sup> Department of Chemistry, Soong Sil University, Seoul 156-743, Korea

<sup>b</sup>Chemistry Division, Hanhyo Institute of Technology, Taejon 305-390, Korea

The conformation of a novel biscavitand solely obtained out of 4 possible stereoisomers from [2 + 2] coupling reaction was determined using NOESY spectrum.

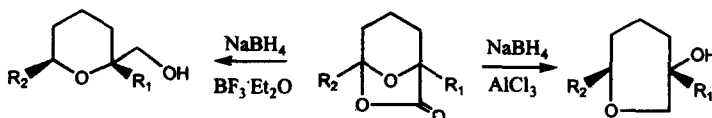


### Ketal-Lactone Compounds and their Stereoselective Cleavage

to Cyclic Ethers. Jong-Gab Jun\* and Dong Woo Lee

Department of Chemistry, Hallym University, Chunchon 200-702, Korea

Excellent stereoselective ring opening of the ketal-lactone to 6-membered and 7-membered cyclic ethers.

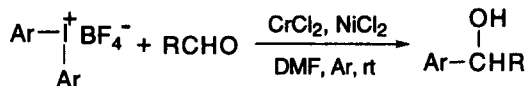


**THE FIRST EXAMPLE FOR REACTIVITY UMPOLUNG OF DIARYLIODONIUM SALTS: CHROMIUM(II)-MEDIATED ARYLATION OF ALDEHYDES**

Da-Wei Chen,<sup>a</sup> Kazuhiko Takai,<sup>b</sup> and Masahito Ochiai<sup>a</sup>

<sup>a</sup> Faculty of Pharmaceutical Sciences, University of Tokushima, 1-78 Shomachi, Tokushima 770, Japan

<sup>b</sup> Department of Applied Chemistry, Faculty of Engineering, Okayama University, Tsushima, Okayama 700, Japan



**NOVEL ANTITUMOUR METABOLITES PRODUCED BY A FUNGAL STRAIN FROM A SEA HARE**

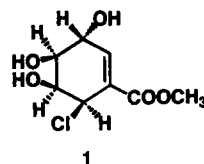
Atsushi Numata,<sup>\*</sup> Masashi Iritani, Takeshi Yamada, Katsuhiko Minoura, Eiko Matsumura,

Takao Yamori<sup>†</sup> and Takashi Tsuruo,<sup>‡</sup>

Osaka University of Pharmaceutical Sciences, Takatsuki, Osaka 569-11, Japan, Cancer Chemotherapy

Center, Japanese Foundation for Cancer Research, Toshima-ku, Tokyo 170, Japan<sup>†</sup> and Institute of

Molecular and Cellular Biosciences, University of Tokyo, Bunkyo-ku, Tokyo 170, Japan<sup>‡</sup>

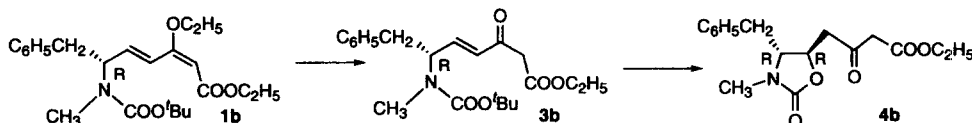


Pericosines A (1) and B with significant antitumour activity have been isolated from the culture broth of *Periconia byssoides* from the sea hare *Aplysia kurodai*, along with macrosphelides C and E – H. Their structures have been established on the basis of spectral analyses.

**Synthesis, Reaction, and Structure of Chiral *N*-Methyl-2-oxazolidinones from 3-Ethoxy-6-(*N*-methyl-*N*-*tert*-butoxycarbonyl)amino-2,4-hexadienoates**

Tomikazu Kawano, Kenji Negoro, and Ikuo Ueda<sup>\*</sup>, The Institute of Scientific and Industrial Research, Osaka University, Mihogaoka, Ibaraki, Osaka 567, Japan

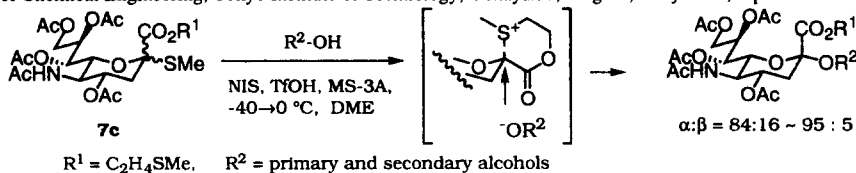
1b was treated with *c*-H<sub>2</sub>SO<sub>4</sub> (1.0 equiv.) supported on silicagel at 0 °C in dichloromethane to afford 2-oxazolidinone (4b) stereo- and regio-selectively in a good yield via 3b.



**A NEW METHOD FOR THE FORMATION OF THE  $\alpha$ -GLYCOSIDE BOND OF SIALYL CONJUGATES BASED ON LONG-RANGE PARTICIPATION.**

Takashi Takahashi<sup>\*</sup>, Hirokazu Tsukamoto and Haruo Yamada

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



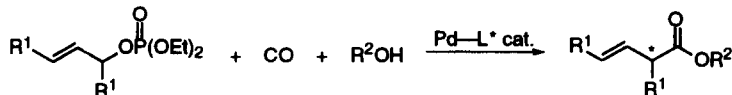
**PALLADIUM-CATALYZED ASYMMETRIC ALKOXYCARBONYLATION OF ALLYL PHOSPHATES**

*Tetrahedron Letters, 1997, 38, 8227*

Yasushi Imada, Masaru Fujii, Yasushi Kubota, and Shun-Ichi Murahashi\*

Department of Chemistry, Graduate School of Engineering Science, Osaka University, 1-3 Machikaneyama, Toyonaka, Osaka 560, Japan

Asymmetric alkoxyacylation of allyl phosphates proceeds in the presence of a palladium complex catalyst bearing a chiral monodentate phosphine ligand affording the corresponding  $\beta,\gamma$ -unsaturated esters up to 48% *ee*.

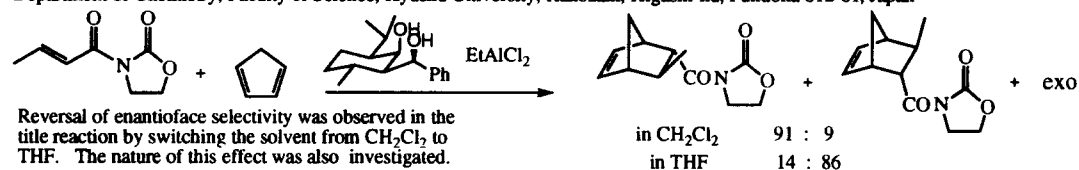


**REMARKABLE SOLVENT EFFECT ON THE ENANTIOFACE SELECTIVITY IN THE DIELS-ALDER REACTION CATALYZED BY AN ALUMINUM COMPLEX OF A NEWLY PREPARED CHIRAL MENTHOL DERIVATIVE**

*Tetrahedron Letters, 1997, 38, 8231*

Go Naraku, Kiyoto Hori, Yoshio N. Ito, and Tsutomu Katsuki

Department of Chemistry, Faculty of Science, Kyushu University, Hakozaki, Higashi-ku, Fukuoka 812-81, Japan

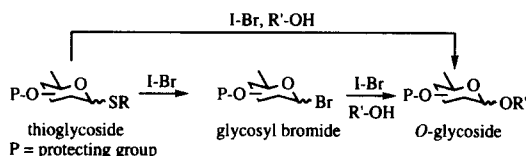


**GLYCOSYLATION CHEMISTRY PROMOTED BY IODINE MONOBROMIDE : EFFICIENT SYNTHESIS OF GLYCOSYL BROMIDES FROM THIOLYGLYCOSIDES, AND O-GLYCOSIDES FROM 'DISARMED' THIOLYGLYCOSIDES AND GLYCOSYL BROMIDES**

*Tetrahedron Letters, 1997, 38, 8233*

K.P. Ravindranathan Kartha and Robert A Field  
School of Chemistry, University of St Andrews,  
St Andrews, FIFE KY16 9ST, U.K.

I-Br is an efficient reagent for the conversion of thioglycosides to glycosyl halides. It can also promote the glycosylation of sugar alcohols by 'disarmed' glycosyl halides and thioglycosides.



**STEAROYLDELICONE, AN UNSTABLE PROTOILLUDANE SESQUITERPENOID FROM INTACT FRUIT BODIES OF *RUSSULA DELICA***

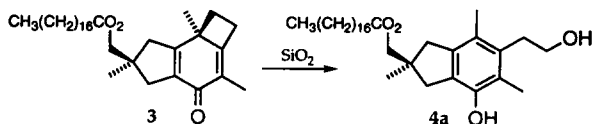
*Tetrahedron Letters, 1997, 38, 8237*

M. Clericuzio<sup>a</sup>, F. Pan<sup>b</sup>, F. Han<sup>b</sup>, Z. Pang<sup>b,\*</sup> and O. Sterner<sup>a,\*</sup>

Dep. of Organic Chemistry 2, University of Lund, P.O.Box 124, 221 00 Lund (Sweden)

and Inst. of Botany, Chinese Academy of Sciences, Nanjing 210014 (P.R. China)

Stearoyldelicone (3) is the major sesquiterpenoid in intact fruit bodies of *R. delica*. In contact with silica gel it is rapidly transformed to the illudalane 4a.

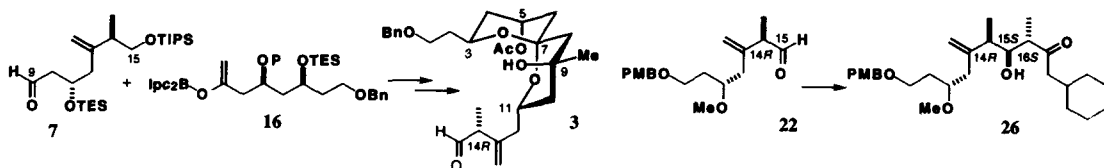




**STUDIES IN MARINE MACROLIDE SYNTHESIS: SYNTHESIS OF THE C<sub>1</sub>-C<sub>15</sub> SUBUNIT OF SPONGISTATIN 1 (ALTOHYRTIN A) AND 15,16-ANTI ALDOL COUPLING REACTIONS.**

Ian Paterson\* and Renata M. Oballa

University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK.

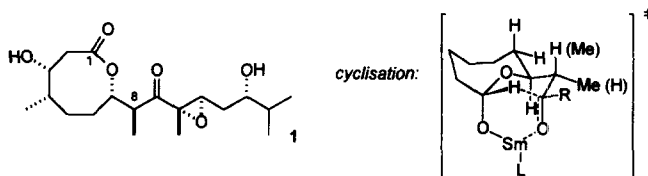


**STUDIES TOWARDS THE SYNTHESIS OF THE MARINE METABOLITE, OCTALACTIN A**

Alison N. Hulme,\* Garnet E. Howells

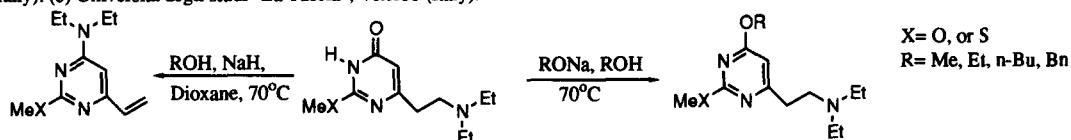
Department of Chemistry, The University of Edinburgh, King's Buildings, West Mains Road, Edinburgh, EH9 3JJ, UK

Studies towards the synthesis of the marine metabolite octalactin A **1**, are described. Key steps in this strategy include an *anti* aldol reaction to set the C<sub>7</sub>-C<sub>8</sub> stereochemistry, Horner Wadsworth Emmons coupling to give a trisubstituted *E*-double bond and a novel samarium-mediated cyclisation reaction.



**AN UNEXPECTED AND EFFICIENT DIRECT NUCLEOPHILIC C-4 HYDROXY SUBSTITUTION ON 2-METHOXY- AND 2-METHYLTHIO-4(3H)-PYRIMIDINONES BEARING A DIETHYLAMINO MOIETY ON THE C-6 SIDE CHAIN.**

M. Botta,<sup>a</sup> F. Occhionero,<sup>b</sup> R. Saladino,<sup>c</sup> C. Crestini,<sup>c</sup> R. Nicoletti<sup>b</sup>. (a) Università degli studi di Siena, Siena (Italy). (b) Università degli studi "La Sapienza", Roma (Italy). (c) Università degli studi "La Tuscia", Viterbo (Italy).

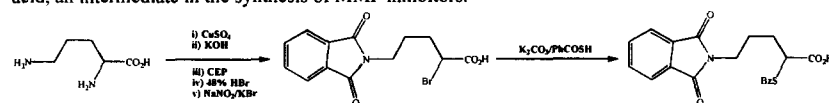


**A SHORT, SCALEABLE SYNTHESIS OF BOTH ENANTIOMERS OF 2-BENZOYLSULFANYL-5-PHTHALIMIDOPENTANOIC ACID FROM ORNITHINE**

Karen E. Holt, Gordon E. Hutton, C. Neil Morfitt, Graham Ruecroft, Stephen J.C. Taylor, Peter D. Tiffin,\*

Neil Tremayne and Martin Woods. Chiroscience Ltd., Cambridge Science Park, Milton Road, Cambridge, CB4 4WE, UK.

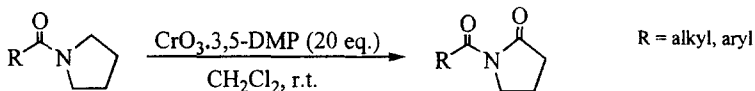
An efficient "one-pot" synthesis of (R)- and (S)-2-bromo-5-phthaloylaminovaleric acid from ornithine is described. Subsequent reaction with potassium thiobenzoate affords a concise, scaleable route to (R)- and (S)-2-benzoylsulfanyl-5-phthalimidopentanoic acid, an intermediate in the synthesis of MMP inhibitors.



**OXIDATION OF *N*-ACYL-PYRROLIDINES TO IMIDES WITH CrO<sub>3</sub>, 3,5-DIMETHYLPYRAZOLE.**

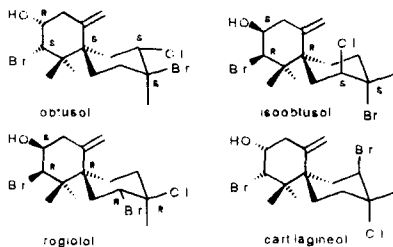
Gonzalo Blay, Luz Cardona, Begoña García, Cristina L. García and José R. Pedro\*.

Departament de Química Orgànica, Facultat de Química, Universitat de València, 46100 Burjassot (València) Spain.

*N*-Acyl-pyrrolidones are easily obtained by treatment of *N*-acyl-pyrrolidines with CrO<sub>3</sub>, 3,5-dimethylpyrazole complex (CrO<sub>3</sub>, 3,5-DMP) at room temperature.**STEREOCHEMICAL FEATURES OF SESQUITERPENE METABOLITES AS A DISTINCTIVE TRAIT OF RED SEAWEEDS IN THE GENUS *LAURENCIA***

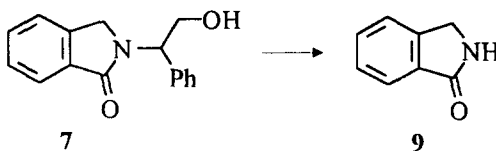
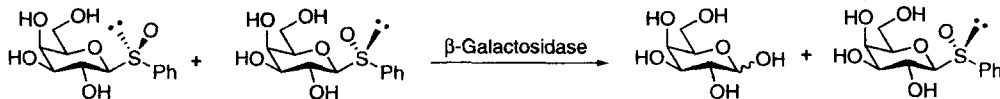
LAURENCIA Graziano Guella, Aysel Öztunç, Ines Mancini, Francesco Pietra

Laboratorio di Chimica Bioorganica, Università di Trento, 38050 Povo-Trento, Italy

Four lineages of red seaweeds in the genus *Laurencia* may be characterized by chamigrenes in four stereochemical families, exemplified by these metabolites**CHEMOSELECTIVE DEBENZYLATION INVOLVING REMOVAL OF A 2-HYDROXY-1-PHENYLETHYL GROUP FROM NITROGEN**

Olivier Fains and John M. Vernon\*, Department of Chemistry, University of York, Heslington, York YO1 5DD, U.K.

A simple 3-step procedure (mesylation, elimination, hydrolysis) achieves the removal of the side chain benzylic group in the isoindolinone 7 without affecting the endocyclic benzylic nitrogen bond.

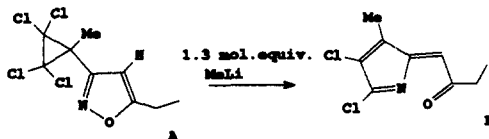
**CHEMICAL AND ENZYMATIC DIASTEREOSELECTIVE CLEAVAGE OF  $\beta$ -D-GALACTOPYRANOSYLSULFOXIDES**N. Khair,<sup>a</sup> I. Alonso,<sup>†</sup> N. Rodriguez,<sup>‡</sup> A. Fernandez-Mayoralas,<sup>b</sup> J. Jimenez-Barbero,<sup>b</sup>O. Nieto,<sup>b</sup> F. Cano,<sup>c</sup> C. Foces-Foces,<sup>c</sup> M. Martin-Lomas.<sup>c</sup><sup>a</sup> Instituto de Investigaciones Químicas, C.S.I.C., c/ Américo Vespucio, s/n., Isla de la Cartuja, 41092 Sevilla. Spain<sup>b</sup> Grupo de Carbohidratos, Instituto de Química Orgánica, CSIC; Juan de la Cierva, 3; E-28006 Madrid.<sup>c</sup> Departamento de Cristalografía, Instituto de Química-Física "Rocasolano", CSIC, Serrano, 119, E-28806. Madrid

**AN UNUSUAL REARRANGEMENT OF ISOXAZOLES TO 2-ALKENOYLPYRROLES OR 1-AZAFULVENES**

*Tetrahedron Letters*, 1997, 38, 8271

Ahmad R. Al Dulayymi<sup>a</sup> and Mark S. Baird,<sup>a</sup> and William Clegg<sup>b</sup>  
 Department of Chemistry, University of Wales, Bangor, Gwynedd,  
 Wales, LL57 2UW and School of Chemistry, University of Newcastle  
 upon Tyne, UK NE1 7RU

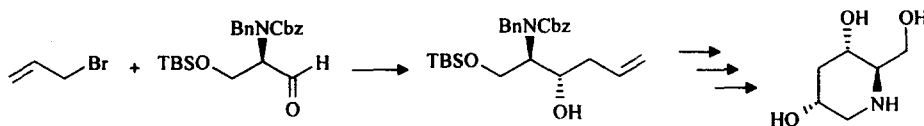
Intramolecular interaction of vinylicarbenes derived from 1,2-dichloro-  
 cyclopropenes with oxazolines can lead to a rearrangement with the  
 formation of 1-azafulvenes or derived 2-alkenoylpyrroles, eg. A → B.



**TOTAL SYNTHESIS OF 1,3-DIDEOXYNOJIRIMYCIN**

*Tetrahedron Letters*, 1997, 38, 8275

Dorota Gryko<sup>a</sup> and Janusz Jurczak<sup>a,b\*</sup> <sup>a</sup>Institute of Organic Chemistry, Polish Academy of Sciences,  
 Kasprzaka 44/52, 01-224 Warsaw; <sup>b</sup>Department of Chemistry, Warsaw University, Pasteura 1, 02-093 Warsaw, Poland.  
 Addition of allyl bromide to *N*-Bn-*N*-Cbz-*O*-TBS-*D*-serinal leads to *anti*-adduct which is subsequently  
 transformed into (2*R*,4*S*,5*R*)-1,3-dideoxynojirimycin.

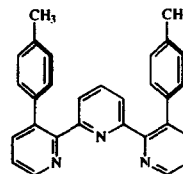


**BUILDING OFF THE BACK OF CHELATORS: SYNTHESIS OF 3,3'-BIS(4-METHYLPHENYL)-2,2':6',2''-TERPYRIDINE**

*Tetrahedron Letters*, 1997, 38, 8279

Andrew C. Benniston, Chemistry Department, University of Glasgow, Glasgow, G12 8QQ, UK.

Using an adaptation of the Jameson method for the synthesis of 2,2':6',2''-terpyridine (terpy), a ditolyl-functionalised ligand has been prepared in which the substituted groups are located in the highly unusual 3,3'' position. The new ligand represents an attempt to develop terpy-based systems with di-functionality that emerges from the 'back side' of the chelator.



**FACTORS AFFECTING THE [3,2]-SIGMATROPIC REARRANGEMENTS OF DIDEHYDROPIPERIDINIUM YLIDS**

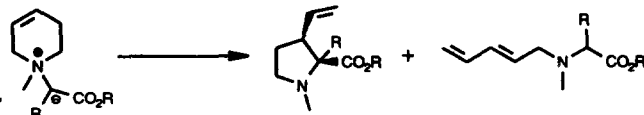
*Tetrahedron Letters*, 1997, 38, 8283

David J. Hyett,<sup>a</sup> J.B. Sweeney,<sup>a\*</sup> Ali Tavassoli,<sup>a</sup>

and Jerome F. Hayes,<sup>b</sup>

<sup>a</sup> Department of Chemistry, University of Reading  
 Reading, RG6 6AD, UK

<sup>b</sup> SKB Pharmaceuticals, Old Powder Mills, Tonbridge,  
 TN11 9AN, UK



The influence of base on the rearrangement reactions of ammonium ylids have been studied

**NEW FLUORIDE-LABILE LINKERS  
FOR SOLID-PHASE ORGANIC SYNTHESIS**

*Tetrahedron Letters*, 1997, 38, 8287

Anne Routledge, H. Thijs Stock, Sabine L. Flitsch\*, and Nicholas J. Turner\*, Chemistry Department, The Edinburgh Centre for Protein Technology, Kings Buildings, West Mains Rd, Edinburgh, EH9 3JJ.

Fluoride-labile linker 1 can be used as a linker in solid-phase synthesis. It can be used to release carboxylic acids, amines or alcohols.

