

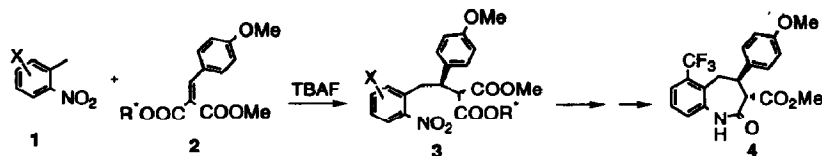
GRAPHICAL ABSTRACTS

*Tetrahedron Letters*, 1994, 35, 6591

**FLUORIDE-CATALYZED MICHAEL ADDITION OF NITRO-TOLUENES TO ACTIVATED  $\alpha,\beta$ -UNSATURATED ESTERS**

Wen-Sen Li, John Thottathil, and Michael Murphy, Bristol-Myers Squibb Pharmaceutical Research Institute, New Brunswick, NJ 08903

Michael addition of nitrotoluenes to chiral esters mediated by tetrabutylammonium fluoride gives chiral adducts.

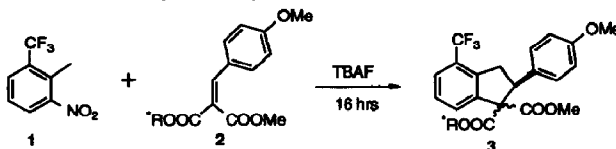


*Tetrahedron Letters*, 1994, 35, 6595

**FLUORIDE-CATALYZED INTRAMOLECULAR DENITROCYCLIZATION OF NITROTOLUENES TO INDANES**

Wen-Sen Li, and John Thottathil, Bristol-Myers Squibb Pharmaceutical Research Institute, New Brunswick, NJ 08903

Michael addition of nitrotoluenes to esters followed by denitrocyclization mediated by tetrabutylammonium fluoride gives indanes.



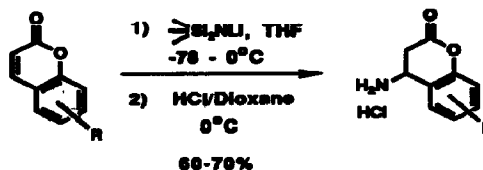
*Tetrahedron Letters*, 1994, 35, 6599

**Synthesis of Novel  $\beta$ -Amino Acid Precursors:  $\beta$ -Amino-Hydrocoumarins as Unusual Aspartic Acid Mimetics used in Fibrinogen Receptor Antagonists**

Joseph G. Rico\*

Monsanto Co. Monsanto Corporate Research, 700 Chesterfield Village Parkway, Chesterfield, MO 63198

An efficient synthesis of  $\beta$ -amino-hydrocoumarins via a Michael addition between readily available coumarins and lithium-bis(trimethylsilyl)amide at low temperature is presented.

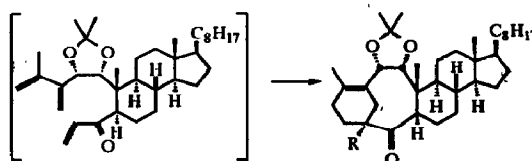


*Tetrahedron Letters*, 1994, 35, 6603

**Studies in The Synthesis of a Baccatin III-Steroid Hybrid: A Remarkably Rapid Intramolecular Diels-Alder Reaction**

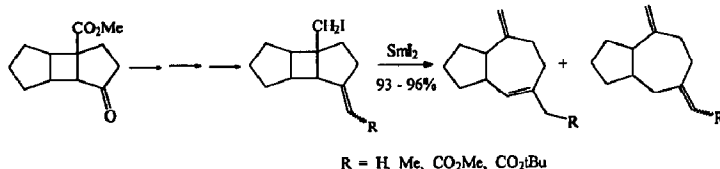
Cheryl A. Alaimo\*, Craig A. Coburn and Samuel J. Danishefsky, Laboratory of Bio-organic Chemistry, Sloan-Kettering Institute for Cancer Research, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021

A face selective intramolecular Diels-Alder reaction generates a 1-*epi*-baccatin III-steroid hybrid.



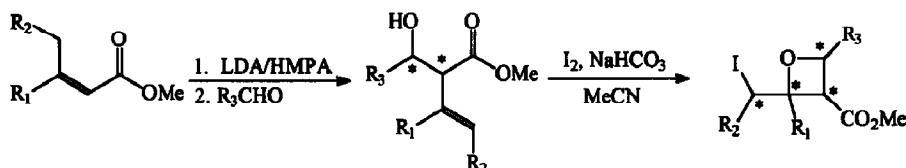
**FREE RADICAL FRAGMENTATION OF PHOTOADDUCT DERIVATIVES LEADING TO ALLYLIC SYSTEMS.****REGIOSELECTIVITY OF REDUCTION WITH TIN HYDRIDES AND SAMARIUM (II) IODIDE**

Gordon L. Lange\* and Christine Gottardo, Guelph-Waterloo Centre for Graduate Work in Chemistry, Department of Chemistry and Biochemistry, University of Guelph, Guelph, Ontario, N1G 2W1, Canada.

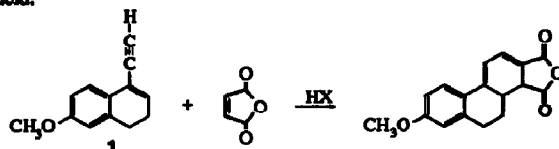
**Stereoselective Synthesis of Substituted Oxetanes**

Paul Galatsis\* and Daniel J. Parks

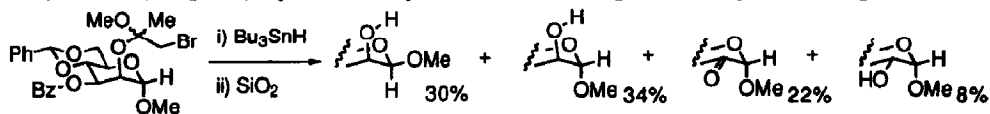
Department of Chemistry and Biochemistry, University of Guelph, Guelph, Ontario, Canada N1G 2W1

**AN ADDITION-CYCLIZATION-ELIMINATION MECHANISM FOR DEHYDRO DIELS-ALDER REACTIONS**

Bernard Miller\* and Dumitru Ionescu, Department of Chemistry, University of Massachusetts, Amherst, MA 01003 USA

Vinylacetylene **1** undergoes reactions with dienophiles by a mechanism involving initial addition of acids to the triple bond, cycloaddition, and elimination of acid.**Intramolecular Hydrogen Atom Abstraction in Carbohydrates and Nucleosides: Inversion of an  $\alpha$ - to  $\beta$ -Mannopyranoside and Generation of Thymidine C-4' Radicals**

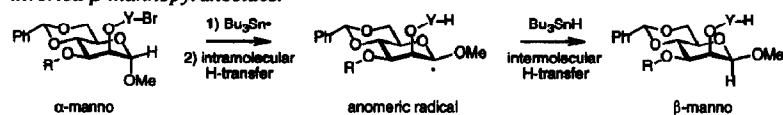
J. Brunckova, D. Crich\* and Q. Yao, Dept. of Chemistry, Univ. Illinois at Chicago, 845 W. Taylor St., Chicago, IL 60607-7061.

The conversion of an  $\alpha$ - to  $\beta$ -mannopyranoside, by intramolecular H-abstraction and stannane trapping, is reported

**Synthesis of  $\beta$ -Mannopyranosides from  $\alpha$ -Epimers by Radical Inversion. 1,6-Hydrogen Transfer Reactions of 2-O-(2-Bromoaryl)dimethylsilyl- $\alpha$ -methyl-D-mannopyranosides**

Naoki Yamazaki, Eugen Eichenberger, and Dennis P. Curran\*  
Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260, USA

*Intramolecular hydrogen transfer reactions of 3-O-acyl- $\alpha$ -methyl-D-mannopyranosides occur in a 1,6-fashion to give inverted  $\beta$ -mannopyranosides.*



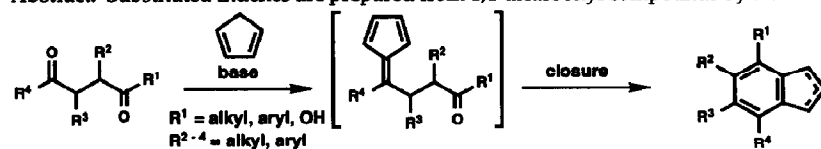
**Indenes via Fulvene Intermediates**

Jotham W. Coe,<sup>†</sup> Michael G. Vetelino<sup>†</sup> and Daniel S. Kemp<sup>‡</sup>

<sup>†</sup>Central Research Division, Pfizer Inc., Groton, CT 06340 and

<sup>‡</sup>Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA 02138

**Abstract:** Substituted indenenes are prepared from 1,4-dicarbonyl compounds by treatment with base and cyclopentadiene.

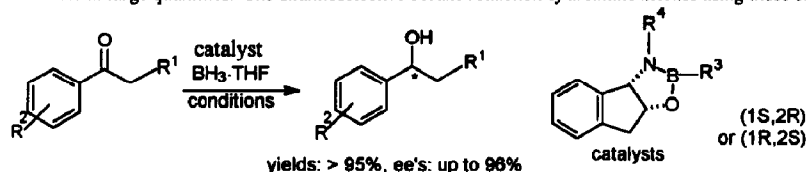


***cis*-1-Amino-2-indanol in Asymmetric Synthesis. Part I. A Practical Catalyst System for the Enantioselective Borane Reduction of Aromatic Ketones**

Yaping Hong, Yun Gao,\* Xiaoyi Nie and Charles M. Zepp

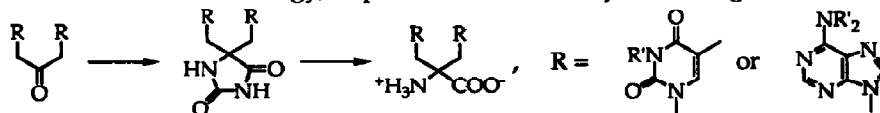
Sepracor Inc., 33 Locke Drive, Marlborough, MA 01752

*A new class of oxazaborolidine catalysts has been prepared from optically pure *cis*-1-amino-2-indanols which are available in large quantities. The enantioselective borane reduction of aromatic ketones using these catalysts has been studied*



**Synthesis of  $\alpha,\alpha$ -Dialkylated Amino Acids with Adenine or Thymine Residues. A New Mild and Facile Hydrolysis of Hydantoins.**

Stefan Kubik, Robert S. Meissner, Julius Rebek Jr.,  
Massachusetts Institute of Technology, Department of Chemistry, Cambridge MA 02139, U.S.A.



The synthesis of amino acids which contain two adenine or thymine residues in their side chains is presented. In this context, a mild method for the cleavage of hydantoins is introduced.

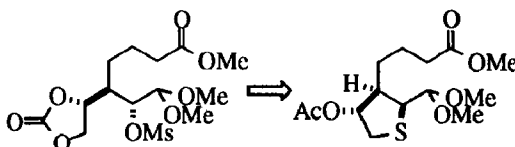
**SYNTHESIS OF TETRAHYDROTHIOPHENES VIA NUCLEOPHILIC ADDITION OF HARPP'S REAGENT TO CYCLIC CARBONATES:**

**APPLICATION TOWARD THE SYNTHESIS OF BREYNOLIDE**

Russell J. Linderman\*, Neil S. Cutshall, and Brian T. Becicka, Department of Chemistry, North Carolina State University, Raleigh, NC 27695-8204

*Tetrahedron Letters*, 1994, 35, 6639

A method for the conversion of a triol to a tetrahydrothiophene is described.



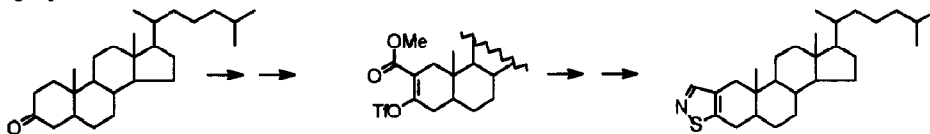
**The First Synthesis of an A-Ring Fused Steroidal Isothiazole**

Sergio Giacopello, Mónica E. Deluca, and Alicia M. Seldes\*.

Depto. de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, (1428) Buenos Aires, Argentina.

*Tetrahedron Letters*, 1994, 35, 6643

The first synthesis of a steroidal [2,3-d] isothiazole is described. A vinyl triflate was prepared as a key intermediate for the regioselective introduction of the C2-C3 unsaturation and C-S bond formation.



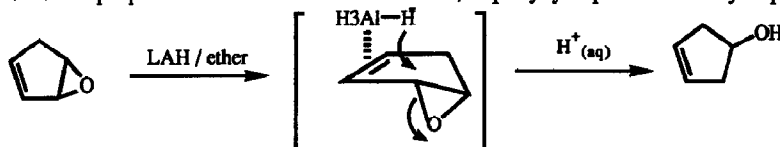
**A Study of the Aluminum Hydride Reduction**

of Unsaturated Cyclic Epoxides Eamonn F. Healy\*, J. D. Lewis

& Amy B. Minnicar, Dept. of Chemistry, St. Edward's University, 3001 Sth. Congress Ave., Austin, TX 78704

*Tetrahedron Letters*, 1994, 35, 6647

A novel mechanism is proposed for the LAH reduction of 3,4-epoxycyclopentene to 3-cyclopentanol.



**Chemical Synthesis of <sup>13</sup>C-labelled Monomers for the Solid-Phase and Template Controlled Enzymatic Synthesis of DNA and RNA**

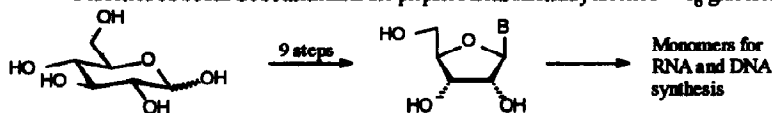
Oligomers. Quant, S.; Wechselberger, R.W.; Wolter, M.A.; Wörmr, K.-H.; Schell, P.; Engels, J.W.;

Griesinger, C.; Schwalbe, H.\*

Inst. f. Org. Chemie, Universität Frankfurt/M., D-60439 Frankfurt/M., Germany.

*Tetrahedron Letters*, 1994, 35, 6649

<sup>13</sup>C-labelled RNA and DNA monomers are prepared from uniformly labelled <sup>13</sup>C<sub>6</sub>-glucose.

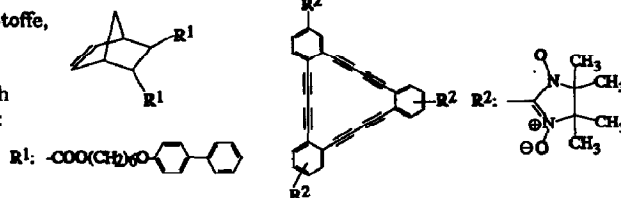


**Electrospray Mass Spectrometry using Potassium Iodide in Aprotic Organic Solvents for the Ion Formation by Cation Attachment**

*Tetrahedron Letters*, 1994, 35, 6653

Robert Saf, Christian Mirtl, Klaus Hummel\*  
 Institut für Chemische Technologie organischer Stoffe,  
 Technische Universität Graz, Stremayrgasse 16,  
 A-8010 Graz (Austria)

In ESI-MS organic compounds can be ionized with potassium ions using KI in DMF-THF. Examples:



**CINNAMIL - AN OLIGOPYRIDINE PRECURSOR**

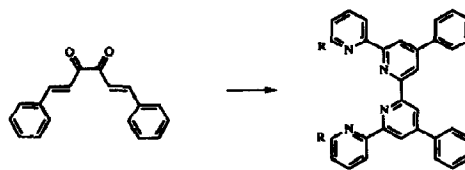
*Tetrahedron Letters*, 1994, 35, 6657

Edwin C. Constable<sup>1</sup>, Michael J. Haunon<sup>2</sup>, and Diane R. Smith<sup>1</sup>

<sup>1</sup> Institut für Anorganische Chemie, Universität Basel, Spitalstrasse 51, CH-4056, Basel Switzerland

<sup>2</sup> University Chemical Laboratory, Lensfield Road, Cambridge, UK.

A new methodology has been employed to synthesize a quaterpyridine, a sexipyridine and a quaterpyridine analogue in which the central 2,2'-bipyridine unit is derived from cinnamil.

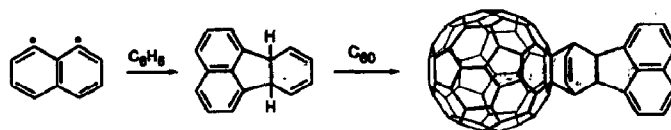


**Cycloaddition of 1,8-Dihydronaphthalene to [60]Fullerene in Benzene Solution.**

*Tetrahedron Letters*, 1994, 35, 6661

**A New Functionalization of  $\text{C}_{60}$  by in situ Generated 6b,10a-Dihydrofluoranthene**

Johannes Averdung and Jochen Mattay\*, Organisch-Chemisches Institut der Universität Münster, Orleansring 23, D - 48149 Münster, Germany  
 6b, 10a-Dihydrofluoranthene which is formed in situ from 1,8-dihydronaphthalene and benzene is added to [60]fullerene under formation of a new stable Diels-Alder adduct.

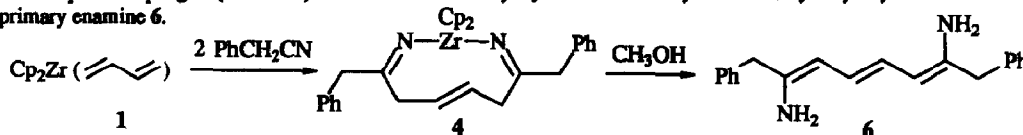


**SYNTHESIS OF STABLE PRIMARY ENAMINES FROM (BUTADIENE)ZIRCONOCENE AND BENZYLIC NITRILES.**

*Tetrahedron Letters*, 1994, 35, 6665

Gerhard Erker\*, Dorothee Kowalski, and Ralf Noe, Organisch-Chemisches Institut der Universität Münster, Corrensstraße 40, D-48149 Münster, Germany, Carl Krüger and Matthias Nolte, Max-Planck-Institut für Kohlenforschung, Kaiser-Wilhelm-Platz 1, D-45470 Mülheim a. d. Ruhr, Germany

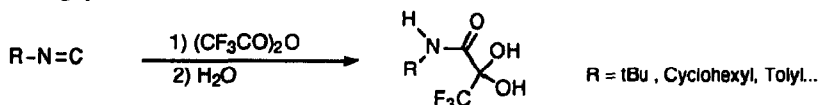
The template coupling of (butadiene)zirconocene with benzyl cyanide followed by controlled hydrolysis yields the stable conjugated primary enamine 6.



**TRIFLUOROPYRUVAMIDES FROM ISOCYANIDES AND TRIFLUOROACETIC ANHYDRIDE**

Laurent El Kaim, Laboratoire Réacteurs et Processus, ENSTA, 32 bd Victor, 75015 Paris.

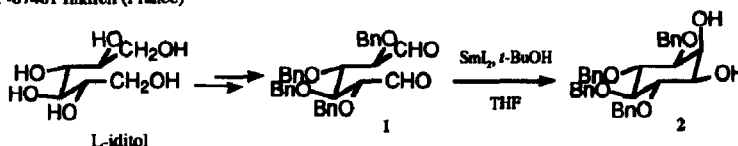
Addition of trifluoroacetic anhydride to isocyanides proceeds smoothly to give after treatment trifluoropyruvamide derivatives in high yield.


**SAMARIUM DIODIDE-MEDIATED SYNTHESIS OF D-3,4,5,6-TETRA-O-BENZYL-MYO-INOSITOL**

 J. P. Guido<sup>(a)</sup>, T. Le Gall<sup>(a)</sup>, C. Mioskowski<sup>(a,b)</sup>
<sup>(a)</sup>CEA, CE-Saclay, Service des Molécules Marquées, Bât 547, F-91191 Gif-sur-Yvette, France

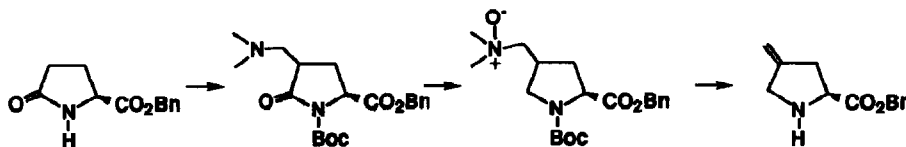
<sup>(b)</sup>Univ. Louis Pasteur, Fac. Pharmacie, F-67401 Illkirch (France)

The synthesis of D-3,4,5,6-tetra-O-benzyl-myo-inositol (2) from L-iditol is described, via the reductive coupling of dialdehyde 1 mediated by samarium diiodide.


**A Short and Efficient Synthesis of (S)-4-Methylene Proline Benzyl Ester from (S)-Pyroglutamic Acid**

Sharad Kumar Panday, Dominique Griffart-Brunet and Nicole Langlois\*

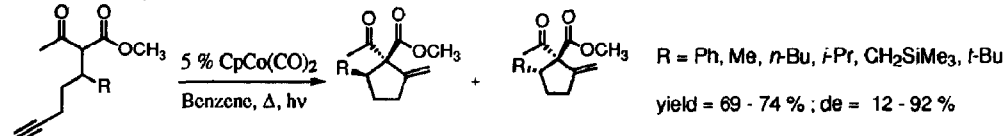
Institut de Chimie des Substances Naturelles, C.N.R.S., 91198 Gif-sur-Yvette Cedex, France


**STUDIES ON DIASTERESELECTIVITY OF THE COBALT(I) CATALYZED CYCLOISOMERIZATION OF SUBSTITUTED ε-ACETYLENIC β-KETOESTER**

Paul Cruciani, Corinne Aubert and Max Malacria\*

Université P. et M. Curie, Laboratoire de Chimie Organique de Synthèse, associé au CNRS, B.229,

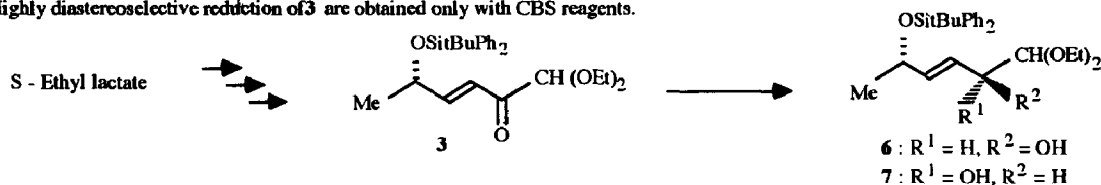
4 Place Jussieu, 75252 Paris Cedex 05, France.



**(5S)-1,1-DIETHOXY-5-*t*-BUTYLDIPHENYLSILYLOXY-HEX-3-EN-2-ONE : A NEW FUNCTIONALIZED VERSATILE CHIRAL BUILDING BLOCK**

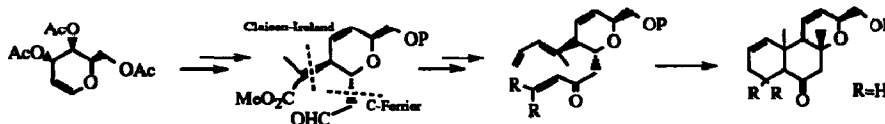
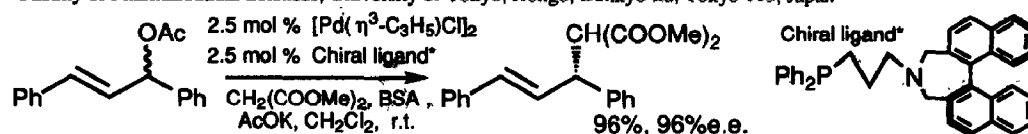
Hervé Dumartin, Yves Le Floch, \* René Grée

Laboratoire de Synthèses et Activations de Biomolécules, associé au CNRS, ENSCR, Avenue du Général Leclerc, 35700 Reines, France

The title enone **3** is easily prepared from protected lactaldehyde.Highly diastereoselective reduction of **3** are obtained only with CBS reagents.**A Synthetic Approach to the Tricyclic System of Forskolin from D-Galactose.** Issam Hanna,\* Jean-Yves Lallemand and Philippe Wlodyka

Laboratoire de Synthèse Organique de l'École Polytechnique, F-91128 Palaiseau, France.

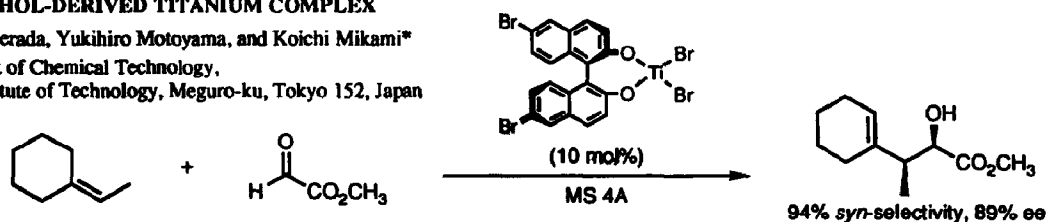
The synthesis of the tricyclic system of forskolin by intramolecular Diels-Alder reaction is described, starting from tri-O-acetyl-D-galactal.

**Enantioselective Palladium Catalyzed Allylic Alkylation with Phosphorus Containing C<sub>2</sub>-symmetric Chiral Amine Ligands**Hideki Kubota<sup>a</sup> and Kenji Koga<sup>b\*</sup><sup>a</sup>Tokyo R&D Center, Daiichi Pharmaceutical Co., Ltd., Edogawa-ku, Tokyo 134, Japan<sup>b</sup>Faculty of Pharmaceutical Sciences, University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan**DIASTEREOSELECTIVE AND ENANTIOSELECTIVE GLYOXYLATE-ENE REACTION CATALYZED BY NEW CLASS OF BINAPHTHOL-DERIVED TITANIUM COMPLEX**

Masahiro Terada, Yukihiro Motoyama, and Koichi Mikami\*

Department of Chemical Technology,

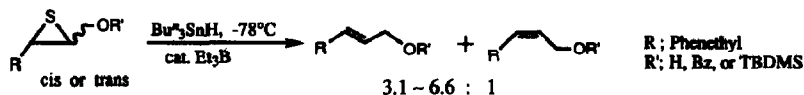
Tokyo Institute of Technology, Meguro-ku, Tokyo 152, Japan



**An Extremely Mild Desulfurization of Thiofuranes; An Efficient Transformation from Geraniol to (+)- and (-)-Linalool**

Jun'ichi Uenishi\* and Yuhki Kubo

Department of Chemistry, Okayama University of Science, Ridaicho, Okayama, 700 JAPAN



Thiran was desulfurized by  $\text{Et}_3\text{B}$  catalyzed  $\text{Bu}_3\text{SnH}$  reduction at  $-78^\circ\text{C}$ . Both (+)- and (-)-linalool were derived from geraniol in 4 steps stereospecifically.

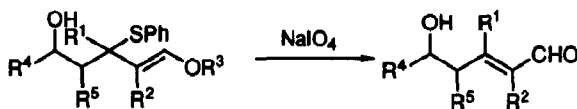


**Hydroxyl-Directed Stereoselective [2,3] Sigmatropic Rearrangement of  $\gamma$ -Hydroxyalkyl  $\gamma$ -Alkoxyallylic Sulfoxides**

Tsuneo Sato and Junzo Otera\*

Department of Applied Chemistry, Okayama University of Science, Ridai-cho, Okayama 700, Japan

The [2,3] sigmatropic rearrangement of  $\gamma$ -hydroxyalkyl  $\gamma$ -alkoxyallylic sulfoxides occurs in a highly stereoselective manner to give  $\delta$ -hydroxy-(*E*)-enals.

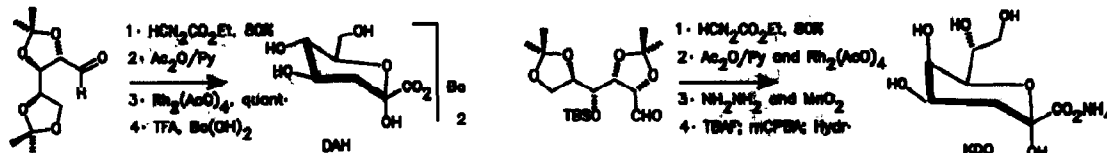


**$\beta$ -OXY- $\alpha$ -DIAZO CARBONYL COMPOUNDS.III.**

**$\text{Rh}_2(\text{AcO})_4$  MEDIATED DECOMPOSITION OF  $\beta$ -ACETOXY- $\alpha$ -DIAZO ESTERS. APPLICATION TO THE SYNTHESIS OF NATURAL 3-DEOXY-2-KETO ALDONIC ACIDS (KDO AND DAH).**

Fidel J. López-Herrera and Francisco Sarabia-García

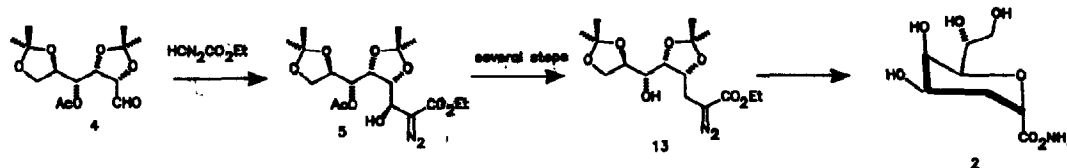
Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Málaga. 29071 Málaga, Spain.



**A NEW SYNTHESIS FOR 2-DEOXY-KDO, A POTENT INHIBITOR OF CMP-KDO SYNTHETASE**

Francisco Sarabia-García, F. J. López-Herrera and María S. Pino González

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Málaga. 29071 Málaga, Spain.

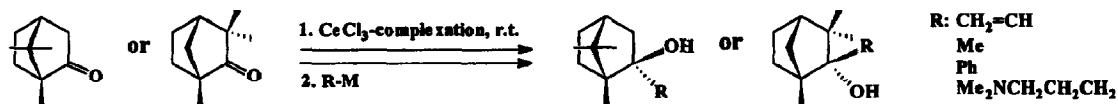




**CERIUM(III) CHLORIDE AS CATALYTIC AND STOICHIOMETRIC PROMOTER OF THE QUANTITATIVE ADDITION OF ORGANOMETALLIC REAGENTS TO (+)-CAMPHOR AND (-)-FENCHONE**

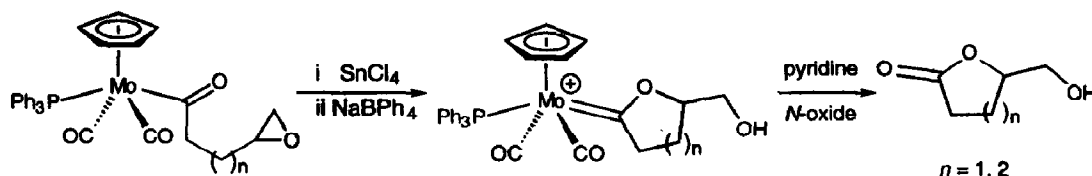
Vladimir Dimitrov\*, Svetoslav Bratovanov, Svetlana Simova and Kalina Kostova, Institute of Organic Chemistry Bulgarian Academy of Sciences, 1113 Sofia, Bulgaria.

Catalytic and/or stoichiometric amounts of  $CeCl_3$  complexed with (+)-camphor and (-)-fenchone at room temperature promote an excellent addition of organometallic reagents.



**SYNTHESIS OF HYDROXYMETHYL LACTONES AND SPIROKETALS VIA CYCLIZATION OF EPOXY OXOCARBENE COMPLEXES.**

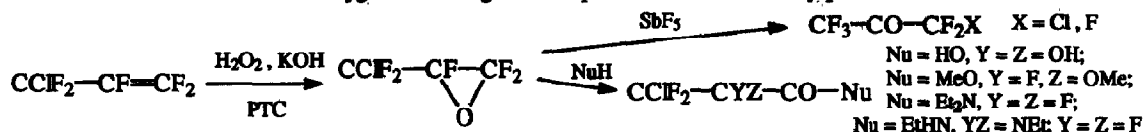
Charles M. Marson, Linda Randall, and Mark J. Winter, Department of Chemistry, The University, Sheffield, S3 7HF, U.K.



**3-CHLOROPENTAFLUOROPROPENE-1,2-OXIDE: PREPARATION AND REACTIONS WITH SOME HETERO-ATOM NUCLEOPHILES AND ANTIMONY PENTAFLUORIDE.**

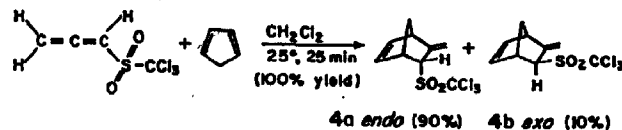
J. Kvíčala\* and O. Paleta, Department of Chemistry, University of Chemical Technology, Technická 5, 166 28 Prague 6, Czech Republic

Nucleophilic epoxidation of 3-chloropentafluoro-1-propene lead to 3-chloropentafluoropropene-1,2-oxide, which was reacted with some oxygen and nitrogen nucleophiles and with antimony pentafluoride.



**FACILE, REGIO AND STEREoseLECTIVE DIELS-ALDER REACTIONS OF ALLENIC TRICHLOROMETHYL SULFONES AND SULFOXIDES.** S. Braverman\* and Z. Lior, Department of Chemistry, Bar-Ilan University, Ramat Gan 52900, Israel

The dienophilic reactivity of allenes is drastically increased by the powerful electron withdrawing trichloromethylsulfonyl or sulfinyl substituents. The (4+2)-cycloadditions proceed smoothly with high regio- and stereoselectivity under mild conditions.



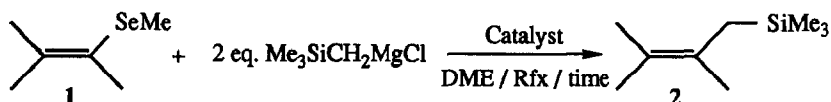
*Tetrahedron Letters*, 1994, 35, 6729

**NICKEL AND PALLADIUM CATALYSED COUPLING OF VINYL SELENIDES WITH TRIMETHYLSILYLMETHYLMAGNESIUM CHLORIDE : A NEW SYNTHESIS OF ALLYL SILANES**

L. Hevesi \*, B. Hermans, C. Allard

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Abstract: A new access to allyl silanes by the Ni or Pd catalysed cross-coupling reactions of vinyl selenides and trimethylsilylmethylmagnesium chloride (DME / Rfx / 65-83 % yield) is reported.

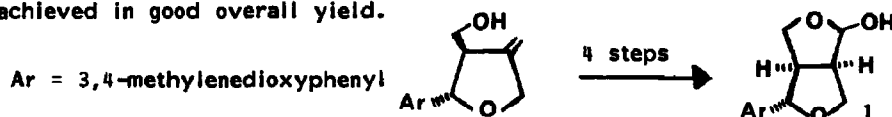


*Tetrahedron Letters*, 1994, 35, 6731

**STEREOSELECTIVE TOTAL SYNTHESIS OF (±)-SAMIN, THE GENERAL FUROFURAN LIGNAN PRECURSOR**

Gourhari Maiti, Sankar Adhikari and Subhas Chandra Roy \*  
Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur, Calcutta - 700 032, India.

Stereoselective synthesis of the general furofuran lignan precursor (±)-Samin 1 has been achieved in good overall yield.



*Tetrahedron Letters*, 1994, 35, 6733

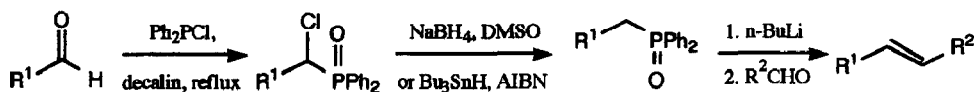
**EFFICIENT SYNTHESIS OF BENZYL-PHOSPHINE OXIDES AND E-STILBENES**

K. M. Brown, N., J. Lawrence,\* J. Liddle, F. Muhammad

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

and D. A. Jackson, ZENECA F.C.M.O., North of England Works, PO Box A38, Leeds Road, Huddersfield, HD2 1FF, UK.

Benzylphosphine oxides are obtained from reduction of (α-chlorobenzyl)phosphine oxides. The Horner Wittig reaction of the benzylphosphine oxides gives exclusively *trans* alkenes.

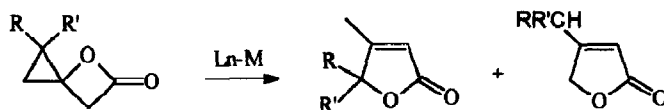


*Tetrahedron Letters*, 1994, 35, 6737

**METAL CATALYSED REARRANGEMENT OF CYCLOPROPANESPIRO-β-LACTONES TO 2-FURANONES.**

Niall W. A. Geraghty and Paul A. Murphy, Chemistry Department, University College, Galway, Ireland.

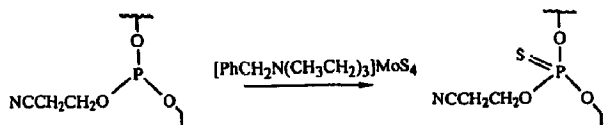
The rearrangement of cyclopropanespiro-β-lactones is shown to be a general reaction involving metal catalysis; a mechanism is proposed which accounts for the regiochemistry of the reaction.



**SOLID PHASE SYNTHESIS OF PHOSPHOROTHIOATE OLIGONUCLEOTIDES USING BENZYLTRIETHYLAMMONIUM TETRATHIOMOLYBDATE AS A RAPID SULFUR TRANSFER REAGENT.**

M. Vaman Rao\* and K. Macfarlane

Cruachem Limited, Todd Campus, West of Scotland Science Park, Acre Road, Glasgow G20 0UA, U.K.



**THE PREPARATION OF SPACE-SEPARATED CHELATING AGENTS BASED ON THE 3,6-DIPYRIDYL PYRIDAZINE LIGAND**

Ronald N. Warren\*, Gordon M. Elsey and Iyer V. Sankar, *Centre for Molecular Architecture, Central Queensland University, Rockhampton, Qld, 4702, Australia.* Douglas N. Butler and Peter Pekos, *York University, North York, Ontario, Canada.* Colin H.L. Kennard, *University of Queensland, St Lucia, Qld, 4072, Australia*

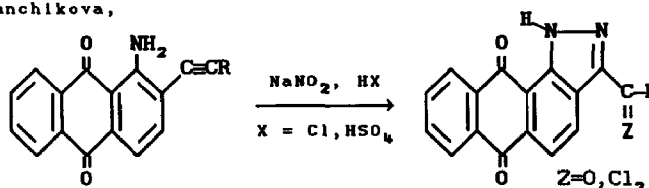
Bis 3,6-di(2'-pyridyl)pyridazines (2) of varied geometry and separations of between 6-21Å have been prepared from the corresponding molrac diene (1) by treatment with 3,6-di(2'-pyridyl)-s-tetrazine/DDQ.



**AN UNUSUAL DIRECTION OF THE RICHTER SYNTHESIS. 1H-NAPHTHO[2,3-g]INDAZOLE-6,11-DIONES.**

Mark S. Shvartsberg\*, Irena D. Ivanchikova, Lidiya G. Fedenok

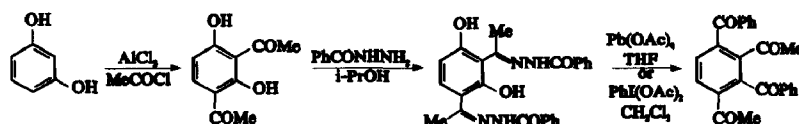
*Institute of Chemical Kinetics and Combustion, Novosibirsk 630090, Russia*



**A NOVEL AND FACILE SYNTHESIS OF TETRAACYLBENZENES**

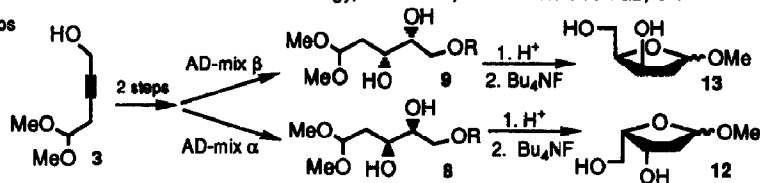
Antigoni Kotali, Laboratory of Organic Chemistry, College of Engineering, University of Thessaloniki, Thessaloniki GR-54006, Greece

Oxidation of *N*-carbonyl hydrazones of *o*-hydroxy arylketones with either lead tetraacetate or [(diacetoxy)iodo]benzene lead to the good yield formation of tetraacylbenzenes *via* an interesting rearrangement.



**Asymmetric Synthesis of Carbohydrates: Synthesis of 2-deoxy-D- and 2-deoxy-L-xylofuranosides from a Simple Achiral Precursor.**Michael E. Jung<sup>a\*</sup> and John M. Gardiner<sup>b\*</sup><sup>a</sup>Department of Chemistry & Biochemistry, University of California at Los Angeles, Los Angeles, California 90024-1569, USA<sup>b</sup>Department of Chemistry, University of Manchester Institute of Science and Technology, PO Box 88, Manchester M60 1QD, UK

The acetylenic alcohol, **3**, prepared in two steps from propargyl bromide, is converted into methyl-2-deoxy-D-xylo-furanoside, **13**, and to its unnatural enantiomer, **12**, in 5 steps and 50% overall yield, utilizing asymmetric dihydroxylation. *ees.* 84-91%  
[R = *t*-BuPh<sub>2</sub>Si]

**Single and Double Reductive Cleavage of C-O Bonds in Aromatic Acetals and Ketals: Generation of Benzylic Mono- and Dicarbocations**

Ugo Azzena,\* Giovanni Melloni, Luisa Pisano, and Barbara Sechi

Dipartimento di Chimica, Università di Sassari, via Vienna 2, I-07100 Sassari, ITALY

Reductive cleavage of compounds **1** followed by electrophilic quenching afforded either compounds **2** or **3**