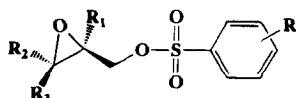


*Tetrahedron Lett.* 1993, 34, 7663

**A DIRECT HPLC METHOD FOR THE DETERMINATION OF ENANTIOMERIC EXCESS OF SOME HIGHLY ENANTIOMERICALLY ENRICHED DERIVATIVES OF CHIRAL GLYCIDOLS**

Jian Chen\* and Wilfred Shum\*  
ARCO Chemical Company, Newtown Square, PA 19073 USA

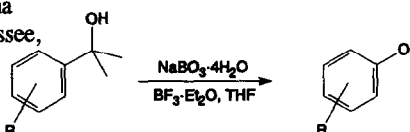


A HPLC method which requires no derivatization has been used to determine accurately the enantiomeric purity of some derivatives of chiral glycidols.

*Tetrahedron Lett.* 1993, 34, 7667

**SODIUM PERBORATE: A CONVENIENT REAGENT FOR BENZYLIC HYDROPEROXIDE REARRANGEMENT**

George W. Kabalka\*, N. Kesavulu Reddy, and Chatla Narayana  
Departments of Chemistry and Radiology, University of Tennessee,  
Knoxville, Tennessee 37996-1600

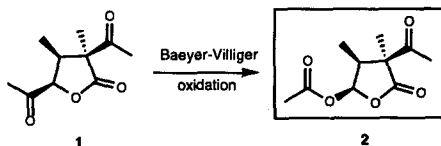


Sodium perborate in boron trifluoride etherate has been found to be an effective reagent for the hydroperoxide rearrangement of electron rich and highly substituted benzylic tertiary alcohols to phenols in good yields.

*Tetrahedron Lett.* 1993, 34, 7669

**A Selective Baeyer-Villiger Oxidation: A Total Synthesis of (-)-Acetomycin** Frederick E. Ziegler\* and Hakwon Kim, *Sterling Chemistry Laboratory, Yale University, New Haven, CT 06511-8118 USA*

A short, stereoselective synthesis of (-)-acetomycin (2) from L-threonine is reported. The final step in the synthesis is a selective Baeyer-Villiger oxidation of diketone 1 that discriminates between two methyl ketones.

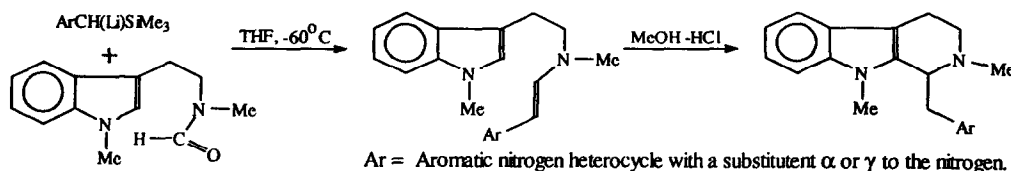


*Tetrahedron Lett.* 1993, 34, 7673

**ENAMINE PRECURSORS OF 1-SUBSTITUTED-1,2,3,4-Tetrahydro-β-CARBOLINES BY WAY OF A PETERSON REACTION.** Rahul Vohra

and David B. MacLean\*, Department of Chemistry, McMaster University, Hamilton, Ontario L8S 4M1, Canada.

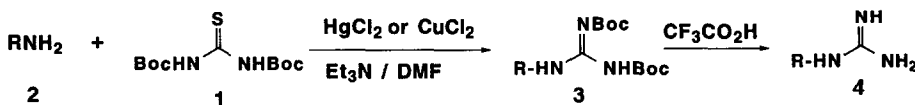
The Peterson reaction has been applied to the synthesis of enamines that cyclize to β-carbolines.



*Tetrahedron Lett.* 1993, 34, 7677

### Improved Method for the Preparation of Guanidines.

Kyoung Soon Kim\* and Ligang Qian, Bristol-Myers Squibb Pharmaceutical Research Institute, P. O. Box 4000, Princeton, N. J. 08543-4000. Use of *N,N'*-di-*tert*-butoxycarbonylthiourea **1** in the presence of mercuric chloride provides a very efficient method for the guanidine formation of the amino compounds whose amino groups are highly deactivated either sterically and/or electronically.

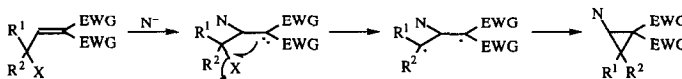


*Tetrahedron Lett.* 1993, 34, 7681

### SINGLE ELECTRON TRANSFER IN MICHAEL INDUCED RING CLOSURE REACTIONS

H. M. Walborsky\* and M. Topolski  
Dittmer Laboratories of Chemistry, Florida State University, Tallahassee, FL 32306

A Single Electron Transfer mechanism is suggested for the Michael Induced Ring Closure (MIRC) reaction.



*Tetrahedron Lett.* 1993, 34, 7685

### POLYMER BOUND EDC (P-EDC): A CONVENIENT REAGENT FOR FORMATION OF AN AMIDE BOND

Manoj C. Desai\* and Linda M. Stephens Stramiello  
Central Research Division, Pfizer Inc, Groton, CT 06340

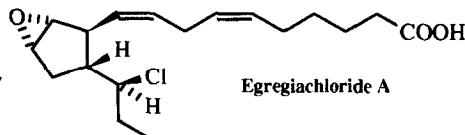


*Tetrahedron Lett.* 1993, 34, 7689

### EGREGIACHLORIDES A-C: NEW CHLORINATED OXYLIPINS FROM THE MARINE BROWN ALGA *EGREGIA MENZIESII*

James S. Todd, Philip J. Proteau, William H. Gerwick\*  
College of Pharmacy, Oregon State University, Corvallis, OR 97331

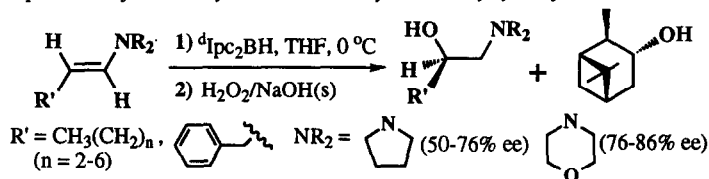
Three new chlorinated oxylipins as well as one olefin analog were isolated from *E. menziesii*. The new structures were determined spectroscopically and a biogenetic route is proposed based on initiation with an  $\omega$ -6 lipoygenase.



**Boranes In Synthesis. 1. Asymmetric Synthesis of  $\beta$ -Amino Alcohols.****A Facile Conversion of Enamines to the Corresponding  $\beta$ -Amino Alcohols in High Enantiomeric Purity**

Gary B. Fisher, Christian T. Goralski, Lawrence W. Nicholson, and Bakthan Singaram\*

Department of Chemistry and Biochemistry, University of California, Santa Cruz, Santa Cruz, Calif. 95064

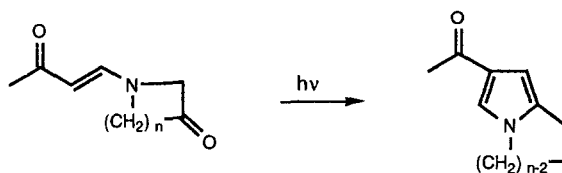


Hydroboration of aldehyde enamines with diisopinocampheylborane, followed by oxidation with  $\text{NaOH(s)}/\text{H}_2\text{O}_2$ , gave the corresponding  $\beta$ -amino alcohols in good yields and high enantiomeric purity.

**A NOVEL PHOTOCHEMICAL SYNTHESIS OF PYRROLES FROM  $\beta$ -KETOVINYLOGOUS AMIDES**

Jeffrey D. Winkler\* and Miles G. Siegel  
Chemistry Department, The University of Pennsylvania,  
Philadelphia, PA 19104

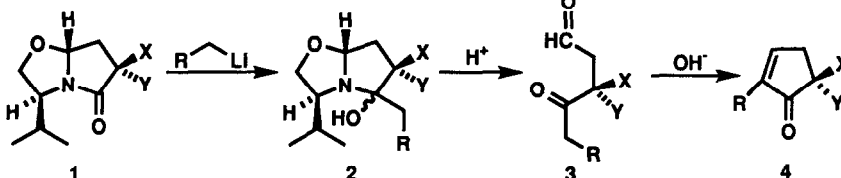
Irradiation of  $\beta$ -ketovinyllogous amides leads to the formation of 3-acylpyrroles.

**Synthesis of Non-Racemic 5,5-Disubstituted 2-Cyclopentenones**

A. I. Meyers\* and Larry J. Westrum

Department of Chemistry, Colorado State University, Fort Collins, Colorado 80523 U.S.A.

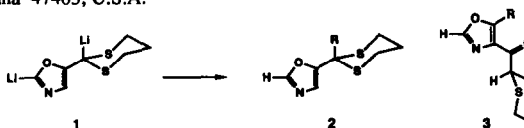
Chiral bicyclic lactam **1**, on treatment with alkylolithiums, gives carbinol **2**, which is hydrolyzed to **3** and cyclized to **4** in high ee's.

**CARBANION METHODOLOGY FOR ALKYLATIONS AND ACYLATIONS IN THE SYNTHESIS OF SUBSTITUTED OXAZOLES. THE FORMATION OF CORNFORTH REARRANGEMENT PRODUCTS.**

D.R. Williams\*, E. Lynn McClymont

Department of Chemistry, Indiana University, Bloomington, Indiana 47405, U.S.A.

Studies of regioselective monoalkylation and acylation reactions of dianion **1** provide a route to oxazoles **2** and **3**.

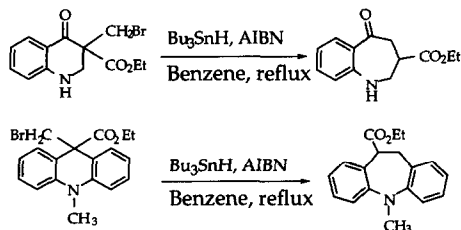


## A Free Radical Route to the Benzazepines and Dibenzazepines

*Tetrahedron Lett.* 1993, 34, 7709

Zhizhen Barbara Zheng and Paul Dowd\*  
Department of Chemistry, University of Pittsburgh  
Pittsburgh, PA 15260

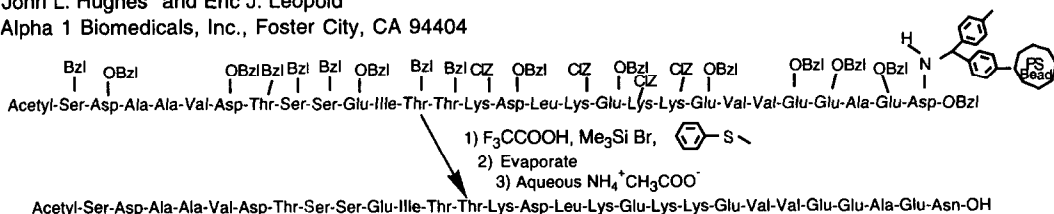
Free radical ring expansion of six-membered azocycles provides a novel route to the benzazepines and dibenzazepines



## CLEAVAGE AND DEPROTECTION OF PEPTIDES FROM MBHA-RESIN WITH BROMOTRIMETHYLSILANE

*Tetrahedron Lett.* 1993, 34, 7713

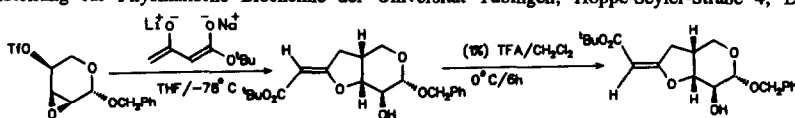
John L. Hughes\* and Eric J. Leopold  
Alpha 1 Biomedicals, Inc., Foster City, CA 94404



## Expedient Entries to Chiral Furanoids via Pyranose Annulation.

*Tetrahedron Lett.* 1993, 34, 7717

Taleb H. Al-Tel, Yousef Al-Abed, Mohammed Saleh Shekhani and Wolfgang Voelter\*, Abteilung für Physikalische Biochemie der Universität Tübingen, Hoppe-Seyler-Straße 4, D-72076 Tübingen, Germany



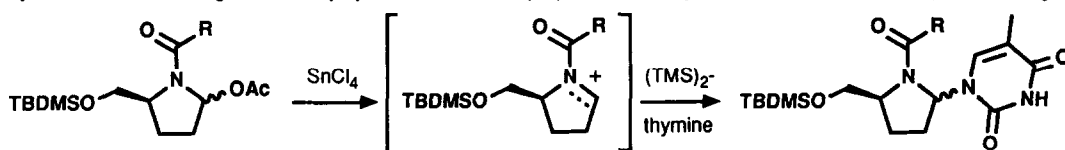
Polysubstituted chiral tetrahydrofurylidenes are conveniently accessible from anhydrosugars and the dianions of β-dicarbonyl compounds. The regiochemistry of the annulation reaction can be reversed by changing the reaction conditions and the sulfonate leaving groups.

## PYRROLIDINE BASED ANALOGS OF 3'-DEOXYTHYMIDINE

*Tetrahedron Lett.* 1993, 34, 7721

Karl-Heinz Altmann\*, Ciba-Geigy Ltd., Central Research Laboratories, R-1060.2.34, CH-4002 Basel, Switzerland

Pyrrolidine based analogs of 3'-deoxythymidine have been prepared via N-acyliminium ion intermediates (R=OBn, CH<sub>3</sub>).

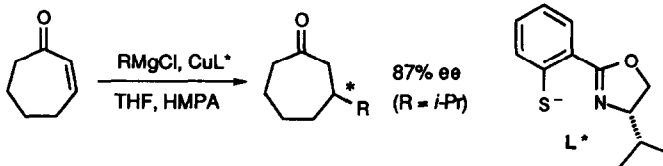


**Chiral Mercaptoaryl-oxazolines as Ligands in Asymmetric Catalysis: Enantioselective Cu-Catalyzed 1,4-Addition of Grignard Reagents to  $\alpha,\beta$ -Unsaturated Ketones.** Qi-Lin Zhou and Andreas Pfaltz\*

*Tetrahedron Lett.* 1993, 34, 7725

Institut für Organische Chemie, Universität Basel, St. Johanns-Ring 19, CH-4056 Basel, Switzerland

Copper(I) thiolate complexes derived from chiral mercaptoaryl-oxazolines have been studied as enantioselective catalysts for the conjugate addition of Grignard reagents to cyclic enones.

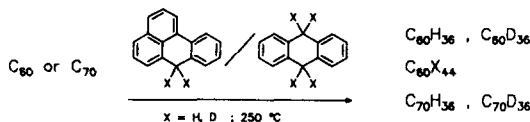


**[7H]Benzenanthrene, a Catalyst for the Transfer Hydrogenation**

**of  $C_{60}$  and  $C_{70}$  by 9,10-Dihydroanthracene.** Matthias Gerst <sup>[a]</sup>, Hans-Dieter Beckhaus <sup>[a]</sup>, Christoph Rüdhardt <sup>[a]</sup>\*, Eleanor E.B. Campbell <sup>[b]</sup> and Ralf Tellmann <sup>[b]</sup>, Freiburger Materialforschungszentrum, Universität Freiburg, Stefan Maier Straße 31a, D-79104 Freiburg, FRG, <sup>[a]</sup> Institut für Organische Chemie und Biochemie der Universität Freiburg, <sup>[b]</sup> Max Born Institut, Rudower Chaussee 6, D-12489 Berlin.

*Tetrahedron Lett.* 1993, 34, 7729

Transfer hydrogenation and deuteration of  $C_{60}$  and  $C_{70}$  to reduced fullerites is possible at 250 °C when [7H]benzenanthrene is used as a catalyst.



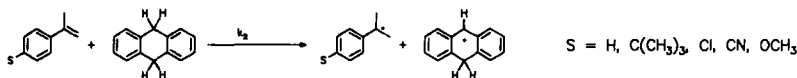
**Transfer Hydrogenation of p-Substituted  $\alpha$ -Methylstyrenes by 9,10-Dihydroanthracene.**

Matthias Gerst, Christoph Rüdhardt \*

Institut für Organische Chemie und Biochemie der Universität Freiburg, Albertstr. 21, 79104 Freiburg, FRG.

The rates of the uncatalyzed H-transfer reactions of five p-substituted  $\alpha$ -methylstyrenes by 9,10-dihydroanthracene are almost insensitive to the variation in S. This supports the transfer of H-atoms and excludes hydride transfer in the rate determine step.

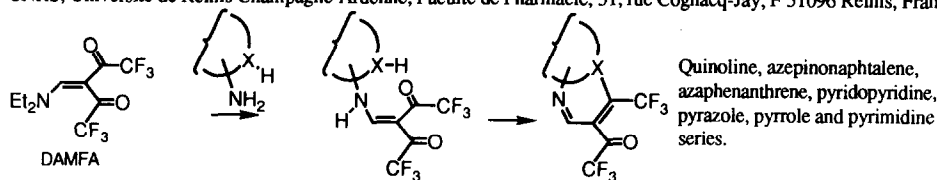
*Tetrahedron Lett.* 1993, 34, 7733



**SYNTHESIS OF SOME FLUORINATED NITROGEN HETERO-CYCLES FROM (DIETHYLAMINOMETHYLENE)HEXAFLUORO ACETYLACETONE (DAMFA)**

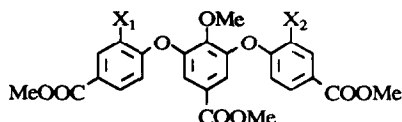
*Tetrahedron Lett.* 1993, 34, 7737

Mustapha Soufyane, Catherine Mirand and Jean Lévy\*, Laboratoire de Transformations et Synthèse de Substances Naturelles, associé au CNRS, Université de Reims Champagne-Ardenne, Faculté de Pharmacie, 51, rue Cognacq-Jay, F 51096 Reims, France.



**A S<sub>N</sub>Ar based Facile Synthesis of Triaryl Diethers, Degradation Products of Vancomycin and related Glycopeptide antibiotics**  
 René Beugelmans\*, Girij Pal Singh, Jieping Zhu  
 Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif-sur-Yvette, France

*Tetrahedron Lett.* **1993**, *34*, 7741



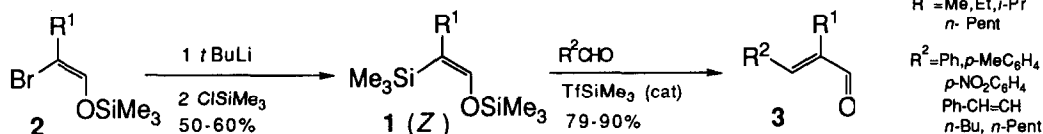
- 1 : X<sub>1</sub>=X<sub>2</sub>=H (from ristocetin<sup>5</sup>, A35512B<sup>6</sup>)  
 2 : X<sub>1</sub>=X<sub>2</sub>=Cl (from vancomycin<sup>7</sup>, teicoplanin<sup>8</sup>)  
 3 : X<sub>1</sub>=H, X<sub>2</sub>=Cl (from actaplanin<sup>9</sup>, avoparcin<sup>10</sup> and actinoidin<sup>11</sup>)

Triaryl diethers **1**, **2**, **3** were efficiently synthesized by an S<sub>N</sub>Ar based approach.

**A New Route to α,β-Unsaturated Aldehydes Using the Condensation of Trimethylsilyl β-Trimethylsilyl Enol Ethers with Aldehydes.**

*Tetrahedron Lett.* **1993**, *34*, 7745

Lucrette Duhamel\*, Jean Gralak and Abdelhamid Bouyanzer. Unité de Recherche Associée au CNRS, Faculté des Sciences et des Techniques de Rouen et IRCOF 76821 Mont Saint Aignan Cedex (France).

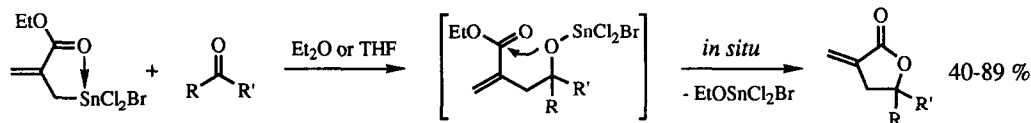


**Reactivity of Functionalized Allyltrihalostannanes :**

*Tetrahedron Lett.* **1993**, *34*, 7749

**An Easy Entry to α-Methylene-γ-lactones.** Eric Fouquet\*, Andreas Gabriel, Bernard Maillard, and Michel Pereyre, *Laboratoire de Chimie Organique et Organométallique URA 35 CNRS, Université Bordeaux I, 351 Cours de la libération, 33405 Talence, France*

Monoallyltin halides react easily with carbonyl compounds to provide various α-methylene-γ-lactones

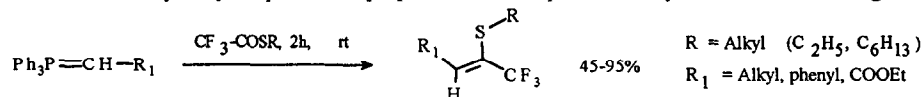


**SHORT AND EFFICIENT PREPARATION OF TRIFLUOROMETHYL VINYL SULPHIDES.**

*Tetrahedron Lett.* **1993**, *34*, 7753

BioCIS-CNRS, Centre d'Etudes Pharmaceutiques, Rue J.B. Clément, F-92296 Châtenay-Malabry, France.

1-Trifluoromethyl vinyl sulphides are prepared in one step from S-alkyl trifluoroacetates in good yields.



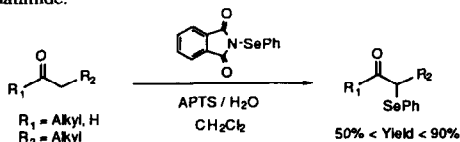
*Tetrahedron Lett.* **1993**, *34*, 7755

**N-(PHENYLSELENO)PHTHALIMIDE: A USEFUL REAGENT FOR THE  $\alpha$ -SELENYLATION OF KETONES AND ALDEHYDES**

Janine Cossy\*, Nathalie Furet

Laboratoire de Chimie Organique Associé au CNRS. ESPCI, 10 rue Vauquelin, 75231 PARIS Cédex 05 - France

$\alpha$ -Phenylselenoketones and  $\alpha$ -phenylselenoaldehydes are obtained in good yields by treatment of the corresponding ketones or aldehydes with N-(phenylseleno)phthalimide.



*Tetrahedron Lett.* **1993**, *34*, 7757

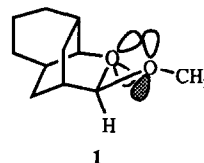
**FIRST EXPERIMENTAL EVIDENCE FOR A SYN-PERIPLANAR STEREOELECTRONIC EFFECT IN THE ACID HYDROLYSIS OF ACETAL.**

Shigui Li, Anthony J. Kirby<sup>1</sup>, and Pierre Deslongchamps\*.

Département de chimie, Université de Sherbrooke, Sherbrooke, QC, Canada J1K 2R1.

<sup>1</sup>University Chemical Laboratory, Cambridge CB2 1EW, U.K.

Acetal **1** in which the endocyclic oxygen has a lone pair synperiplanar to the C—OCH<sub>3</sub> bond is readily hydrolyzed with HCl 0.1 N.



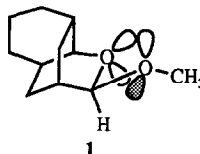
*Tetrahedron Lett.* **1993**, *34*, 7759

**EXPERIMENTAL EVIDENCE FOR A SYNPERIPLANAR STEREOELECTRONIC EFFECT IN THE OZONOLYSIS OF A TRICYCLIC ACETAL.**

Shigui Li and Pierre Deslongchamps\*.

Département de chimie, Université de Sherbrooke, Sherbrooke, QC, Canada J1K 2R1.

Acetal **1** with the endocyclic oxygen lone pairs synperiplanar is easily oxidized with ozone at -78°C.



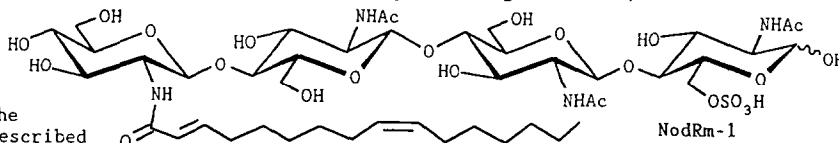
*Tetrahedron Lett.* **1993**, *34*, 7763

**TOTAL SYNTHESIS OF THE SULFATED LIPOOLIGOSACCHARIDE SIGNAL INVOLVED IN RHIZOBIUM MELILOTI-ALFALFA SYMBIOSIS**

Lai-Xi Wang, Chuan Li, Qin-Wei Wang, Yong-Zheng Hui\*

Shanghai Inst. Org. Chem., Academia Sinica, 345 Lingling Lu, Shanghai 200032, China

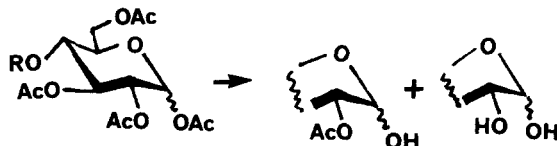
A stereo-controlled, total synthesis of the title compound was described



ENZYMIC REGIOSELECTIVE HYDROLYSIS OF PERACETYLATED REDUCING DISACCHARIDES, SPECIFICALLY AT THE ANOMERIC CENTRE: INTERMEDIATES FOR THE SYNTHESIS OF OLIGOSACCHARIDES.

*Tetrahedron Lett.* 1993, 34, 7767

Riaz Khan\*, Line Gropen, Paul A. Konowicz, Maria Matulová and Sergio Paoletti. POLY-biòs LBT, Area di Ricerca, Padriciano 99, Trieste, Italy.



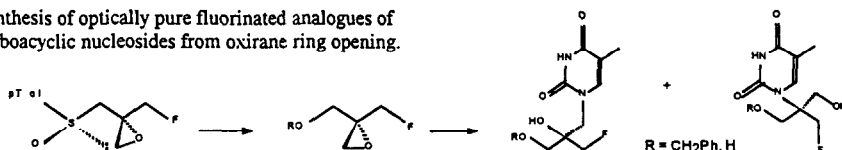
Synthesis of C-1 hydroxy and C-1,2 dihydroxy disaccharide hepta- and hexa- acetates are described.

OPTICALLY PURE AND FLUORO SUBSTITUTED CARBOCYCLIC NUCleosIDE ANALOGUES

*Tetrahedron Lett.* 1993, 34, 7771

Pierfrancesco Bravo, Massimo Frigerio, Fiorenza Viani, and Vadim Soloshonok. CNR - Centro di Studio per le Sostanze Organiche Naturali - Dipartimento di Chimica del Politecnico di Milano, via Mancinelli 7, 20131 Milano, Italy.

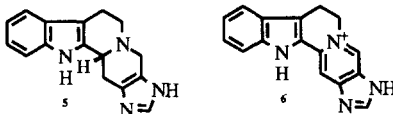
Synthesis of optically pure fluorinated analogues of carboacyclic nucleosides from oxirane ring opening.



VILLAGORGIN A AND B. NEW TYPE OF INDOLE ALKALOIDS WITH ACETYLCHOLINE ANTAGONIST ACTIVITY FROM THE GORGONIAN *Villagorgia rubra*

*Tetrahedron Lett.* 1993, 34, 7773

A. Espada<sup>1</sup>, C. Jiménez<sup>2</sup>, C. Debitus,<sup>3</sup> and R. Riguera<sup>1\*</sup> <sup>1</sup>Depart. de Química Orgánica, Fac. de Química, Universidad de Santiago, Santiago de Compostela. 15706. Spain; <sup>2</sup>Depart. de Química Fundamental e Industrial, Fac. de Ciencias, Univ. da Coruña, A Coruña. 15071. Spain; <sup>3</sup>ORSTOM, Centre de Noumea, B. P. A5, Noumea, New Caledonia. VillagorGIN A (5) and VillagorGIN B (6) were isolated from the gorgonian *Villagorgia rubra*,

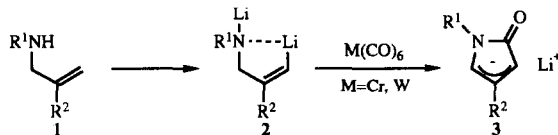


Lithiated Butyrolactams from Dianions Derived from Allyl Amines and Hexacarbonylchromium or Tungsten.

*Tetrahedron Lett.* 1993, 34, 7777

José Barluenga,\* Rosario González, and Francisco J. Fañanás

Departamento de Química Organometálica, Facultad de Química, Universidad de Oviedo, 33071-Oviedo, Spain



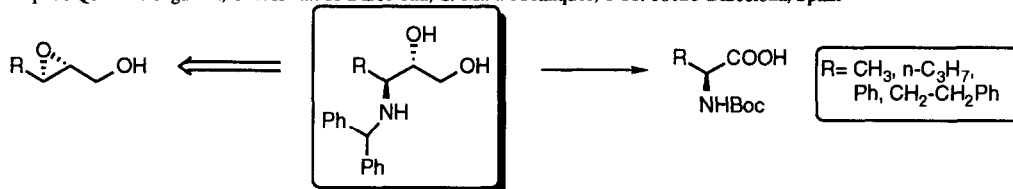


**A SHORT ENANTIOSELECTIVE SYNTHESIS OF *N*-BOC- $\alpha$ -AMINO ACIDS FROM EPOXY ALCOHOLS**

Marta Poch, Montserrat Alcón, Albert Moyano, Miquel A. Pericàs\*, Antoni Ricra\*

Dep. de Química Orgànica, Universitat de Barcelona, C/ Martí i Franquès, 1-11. 08028-Barcelona, Spain

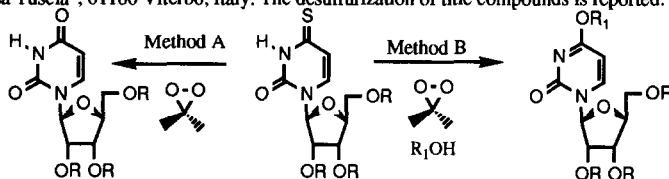
*Tetrahedron Lett.* **1993**, *34*, 7781



**DIMETHYLDIOXIRANE OXIDATIONS: A NEW AND EFFICIENT DESULFURIZATION OF THIOPYRIMIDINE AND THIOPURINE NUCLEOSIDES.**

Claudia Crestini, Raffaele Saladino, Roberta Bernini and Enrico Mincione. Dipartimento Agrochimico-Agrobiologico, Università "La Tuscia", 01100 Viterbo, Italy. The desulfurization of title compounds is reported.

*Tetrahedron Lett.* **1993**, *34*, 7785



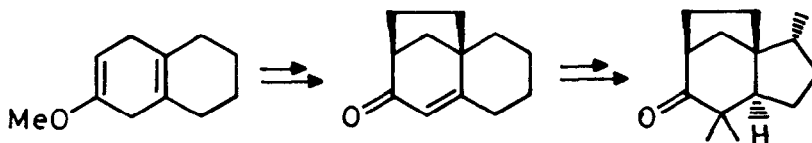
**A NEW TOTAL SYNTHESIS OF ( $\pm$ )-NORPREZIZANONE**

Natesan Selvakumar and G. S. R. Subba Rao

Department of Organic Chemistry, Indian Institute of Science, Bangalore-560012, India

*Tetrahedron Lett.* **1993**, *34*, 7789

A new strategy for the synthesis of ( $\pm$ )-norprezizanone, a key intermediate for zizaene group of sesquiterpenes is described.



**SULFIDES TETHERED TO OXAZOLINES: LIGANDS FOR ENANTIOSELECTIVE CATALYSIS**

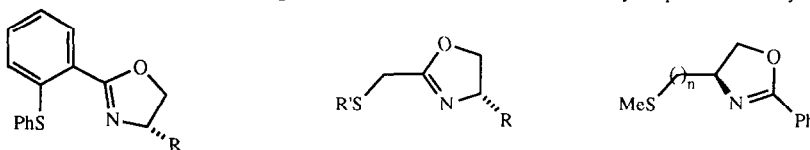
Graham J. Dawson,<sup>a</sup> Christopher G. Frost,<sup>a</sup> Christopher J. Martin,<sup>a</sup> Jonathan M. J. Williams\*\* and Steven J. Coote<sup>b</sup>

<sup>a</sup> Department of Chemistry, Loughborough University of Technology, Loughborough, Leicestershire, LE11 3TU, UK.

<sup>b</sup> Glaxo Group Research Ltd., Ware, Herts, SG12 0DP, UK.

*Tetrahedron Lett.* **1993**, *34*, 7793

Oxazoline ligands tethered to sulfides afford good to excellent levels of enantioselectivity for palladium catalysed allylic substitution



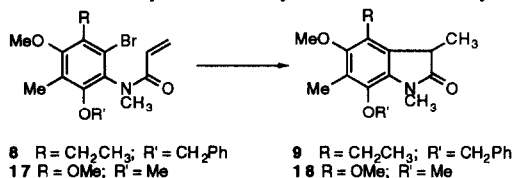
**ARYL RADICAL CYCLISATION APPROACH TO HIGHLY SUBSTITUTED OXINDOLES RELATED TO MITOMYCINS**

*Tetrahedron Lett.* 1993, 34, 7797

Keith Jones\* and John M.D. Storey

Department of Chemistry, King's College London, Strand, London WC2R 2LS U.K.

The hexasubstituted oxindoles **8** and **17** have been synthesised and cyclised via the derived aryl radicals to the oxindoles **9** and **18**

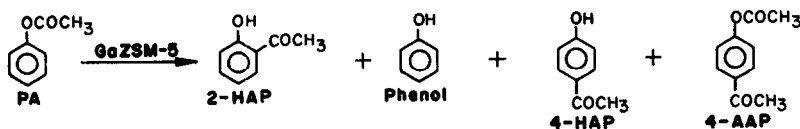


**HIGHLY SELECTIVE FRIES REARRANGEMENT OVER MODIFIED ZSM-5 CATALYSTS**

*Tetrahedron Lett.* 1993, 34, 7799

Yarlagadda V Subba Rao, Shivanand J Kulkarni\*, Machiraju Subrahmanyam and A V Rama Rao  
 Indian Institute of Chemical Technology, Hyderabad 500 007, India

In the reaction of phenyl acetate over modified ZSM-5 catalysts, 2-hydroxy acetophenone was obtained in good yields. GaZSM-5 was the better catalyst for Fries rearrangement.



**A SHORT SERENDIPITOUS SYNTHESIS OF MINIMAL GLUCOCORTICOID RECEPTOR ZINC TEMPLATE**

*Tetrahedron Lett.* 1993, 34, 7801

S. Ranganathan<sup>a</sup>, N. Jayaraman<sup>a</sup>,  
 R. Roy<sup>b</sup> and K.P. Madhusudanan<sup>b</sup>

a. Department of Chemistry, Indian Institute of  
 Technology, Kanpur 208 016, India

b. Medicinal Chemistry Division, Central Drug  
 Research Institute, Lucknow 226 001, India

The fortuitous formation of the novel cyclo[bis-oxaly] cystine (1) from cystine-di-OMe has enabled a one-step synthesis of the first minimal glucocorticoid receptor zinc template(2).

