

GRAPHICAL ABSTRACTS

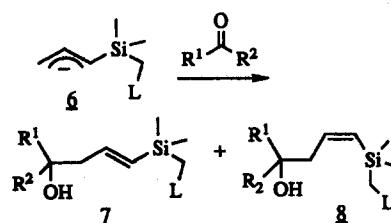
STEREOSELECTIVE REACTIONS OF α -SILYLALLYL ANIONS WITH CARBONYL COMPOUNDS.

T.H. Chan* and D. Labrecque

Dept. Chemistry, McGill University, Montreal, Quebec, Canada H3A-2K6.

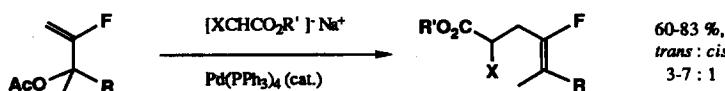
α -Silylallyl anions of the type **6** react with carbonyl compounds regioselectively at the γ -position, and stereoselectively to give the E- or the Z-isomer depending on the reaction conditions. Solvent and reaction temperature play a critical role in the control of stereoselectivity.

Tetrahedron Lett. 1992, 33, 7997



An Application of the Trost Reaction to the Stereoselective Synthesis of *trans*-Tetrasubstituted Fluoroalkenes.

Paul V. Fish, S. Pulla Reddy, Cheol H. Lee, and William S. Johnson.* Department of Chemistry, Stanford University, Stanford, California 94305, USA



The coupling of β -fluoroallylic acetates with ester-enolates gave tetrasubstituted fluoroalkenes in good yield and with generally satisfactory *trans*-stereoselectivity.

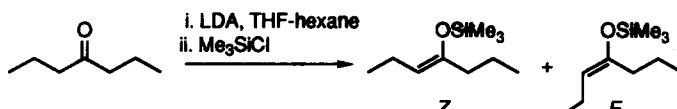
Tetrahedron Lett. 1992, 33, 8005

The Stereochemistry of Enolate Formation in THF-Hexane Mixtures

Michael J. Munchhof and Clayton H. Heathcock*

Department of Chemistry,
University of California,
Berkeley, CA 94720

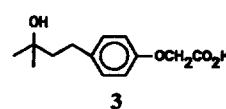
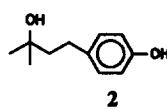
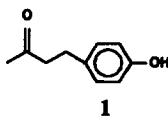
The Z/E ratio ranges from 1.5:1 in pure THF to 0.7:1 in 90% hexane.



AN IMPROVED PREPARATION OF A TERTIARY ALCOHOL

PROLINE LINKER AND ITS USE IN A SYNTHESIS OF MOSQUITO OOSTATIC HORMONE. Jan Kochansky* and R. M. Wagner, Insect Neurobiology and Hormone Laboratory and Livestock Insects Laboratory, USDA, ARS, Beltsville, MD 20705 USA

The reaction of MeMgBr with **1** to give **2** proceeds to completion only in THF. **2** was converted to linker **3** and used for a solid phase synthesis of Mosquito Oostatic Hormone ($\text{Tyr-Asp-Pro-Ala-(Pro)}$).

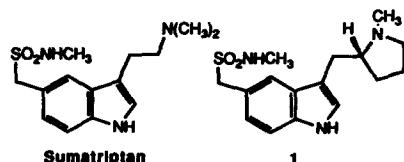


THE SYNTHESIS OF A CONFORMATIONALLY RESTRICTED ANALOG OF THE ANTI-MIGRAINE DRUG SUMATRIPTAN

Tetrahedron Lett. 1992, 33, 8011

John E. Macor,* David H. Blank, Ronald J. Post and Kevin Ryan
Department of Medicinal Chemistry, Central Research Division, Pfizer Inc, Groton, Connecticut 06340

The synthesis of 5-N-Methylaminosulfonylmethyl-3-(N-methylpyrrolidin-2-ylmethyl)indole (1), a conformationally restricted analog of the anti-migraine drug, sumatriptan, is described. To incorporate our novel C3 stereogenic replacement for the aminoethyl sidechain in sumatriptan, a convergent synthesis of the 3,5-disubstituted indole (1) was employed which utilized an intramolecular Heck reaction as the cornerstone reaction.

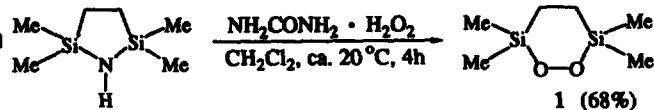


SYNTHESIS AND REACTIONS OF THE CYCLIC SILYL PEROXIDE 1,1,4,4-TETRAMETHYL-2,3-DIOXA-1,4-DISILACYCLOHEXANE

Tetrahedron Lett. 1992, 33, 8015

Waldemar Adam* and Rainer Albert
Institute of Organic Chemistry, University of Würzburg, Am Hubland,
D-8700 Würzburg, Germany

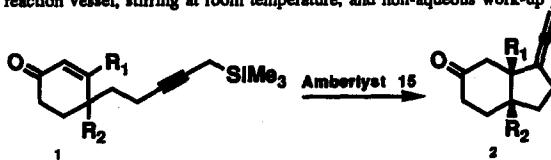
The first simple cyclic silyl peroxide 1 was prepared by classical synthetic methodology from its cyclic disilazane and the $\text{NH}_2\text{CONH}_2 \cdot \text{H}_2\text{O}_2$ complex.



Amberlyst 15-Catalyzed Cyclizations of Propargylic Silanes Dieter Schinzer*, Jazid Kabbara, and Kerstin Ringe

Tetrahedron Lett. 1992, 33, 8017

Institut für Organische Chemie der Technischen Universität Braunschweig, Hagenring 30, W-3300 Braunschweig, Germany
A very efficient and simple route to bicyclic ketones using propargylic silanes is described. Amberlyst 15 is added to a reaction vessel, stirring at room temperature, and non-aqueous work-up yielded several bicyclic ketones.

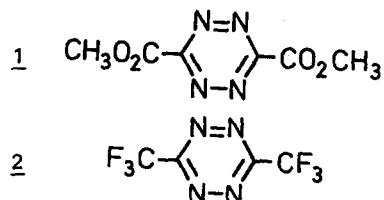


"Silylenolether als 2π-Komponenten in (4 + 2)-Cycloadditionen: Präparative und kinetische Ergebnisse"

Tetrahedron Lett. 1992, 33, 8019

Thomas Hierstetter, Bruno Tischler und Jürgen Sauer,
Institut für Organische Chemie der Universität Regensburg,
Universitätsstr. 31, W-8400 Regensburg, FRG

The reactivity of 16 open chain and cyclic silylenolethers was studied with 1 and 2 as electron poor dienes in inverse type DIELS-ALDER reactions.

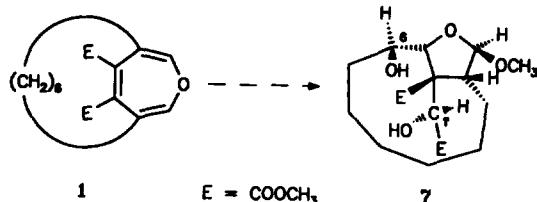


BRIDGED BRANCHED DEOXY METHYL FURANOSIDES
FROM 3,6-HEXANOXEPINES

Tetrahedron Lett. 1992, 33, 8023

Brigitta Popp, Norbert Sdunus,
Frank Sönnichsen und Werner Tochtermann*,
Institut für Organische Chemie der Universität
Olshausenstr. 40, D-2300 Kiel 1, FRG
Eva-Maria Peters, Karl Peters und H.G. von Schnering
Max-Planck-Institut für Festkörperforschung
Heisenbergstr. 1, D-7000 Stuttgart 80, FRG

The synthesis of the title compounds is described.

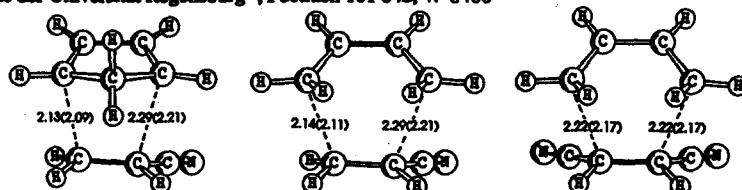


SOLVENT EFFECTS ON ENDO/EXO SELECTIVITIES IN (4 + 2)
CYCLOADDITIONS OF CYANOETHYLENES.

Tetrahedron Lett. 1992, 33, 8027

T. Karcher^{a)}, W. Sicking^{b)}, J. Sauer^{a)} and R. Sustmann^{a,b)}

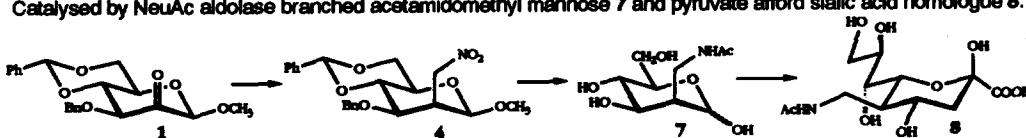
Institut für Organische Chemie der Universität Essen^{b)}, Postfach 103 764, W-4300 Essen 1 and
Institut für Organische Chemie der Universität Regensburg^{a)}, Postfach 101 042, W-8400
Regensburg, Germany



Synthesis of the C-5 Homologue of N-Acetylneurameric Acid by
Enzymatic Chain Elongation of 2-C-Acetamidomethyl-2-deoxy-D-mannose

Tetrahedron Lett. 1992, 33, 8031

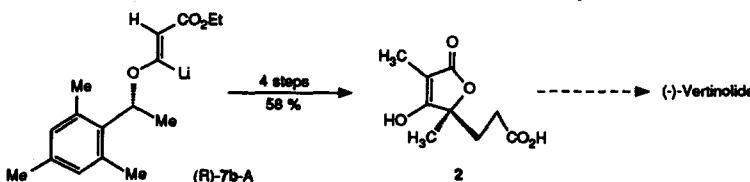
Klaus Koppert and Reinhard Broesmer, Institut für Biochemie II, Universität Heidelberg, Im Neuenheimer Feld 328, 6900 Heidelberg, FRG
Addition of nitromethane to hexopyranosid-2-ulose 1 produces via intermediate nitroolefin stereoselectively 4. Catalysed by NeuAc aldolase branched acetamidomethyl mannose 7 and pyruvate afford sialic acid homologue 8.



A Convenient Stereoselective Synthesis of a (-)-Vertinolide Precursor

Tetrahedron Lett. 1992, 33, 8035

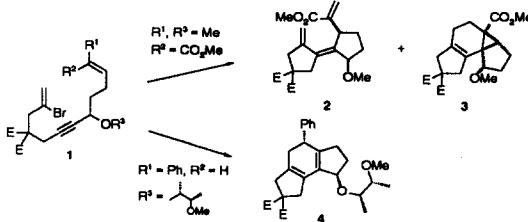
Apurba Datta, Dinah Datta, and Richard R. Schmidt*
Fakultät für Chemie, Universität Konstanz, Postfach 5560, D-7750 Konstanz Germany



PALLADIUM-CATALYZED POLYCYCLIZATIONS OF SUBSTITUTED DIENYNES: STEREOSELECTIVE ROUTES TO HIGHLY COMPLEX POLYCYCLES

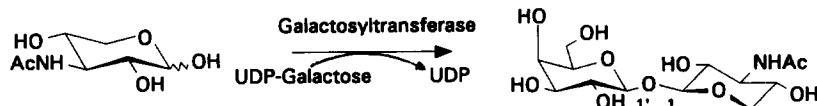
Frank E. Meyer, Hans Henniges, and Armin de Meijere*
Institut für Organische Chemie, Universität Göttingen,
Tammannstraße 2, D-3400 Göttingen, FRG

Dienynes of type 1 cyclize under palladium-catalysis to bicyclic 2 and its *trans*-isomer. Under appropriate conditions, the latter gives 3 by intramolecular Diels-Alder reaction. With a different set of substituents, enantiopure 1 yields enantiopure tricycle 4.



Transfer of Galactose to the Anomeric Position of N-Acetyl Glucosamine by Galactosyltransferase from Bovine Milk

Y. Nishida, T. Wiemann and J. Thiem*
Department of Organic Chemistry, University of Hamburg, Martin-Luther-King-Platz 6, D-2000 Hamburg 13, Germany

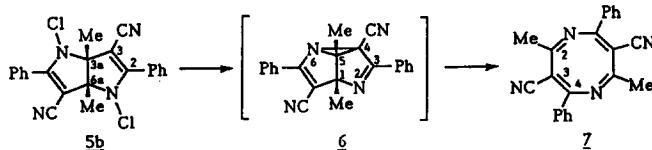


The disaccharide β Gal(1,1) β Xyl3NAc with a β , β -trehalose type was obtained in 25% employing UDP-Gal in a galactosyltransferase reaction.

2,6-Diaza-4,8-dicyanosemibullvalene. A short lived intermediate?

B. Düll, K. Müllen*, Max-Planck-Institut für Polymerforschung, Ackermannweg 10, D-6500 Mainz, Germany

Dehalogenation of **5b** produces the unstable semibullvalene **6** which rapidly transforms into diazocine **7**.

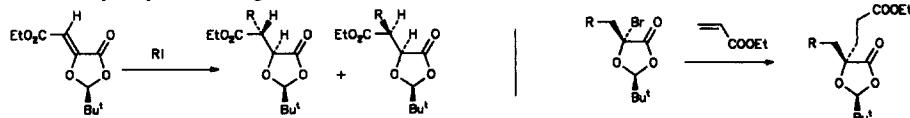


Asymmetric Radical Additions Using Chiral 1,3-Dioxolane-4-ones

Georg Kneer and Jochen Mattay*

Organisch-Chemisches Institut, Westfälische Wilhelms-Universität, Orléansring 23, D-(W)-4400 Münster, Germany

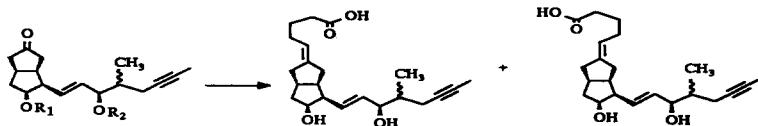
The addition of alkyl radicals to the chiral (c,d) olefin (*2S*)-2-*tert*-butyl-5-ethoxycarbonylmethylene-1,3-dioxolane-4-one with following hydrogen abstraction gave two diastereoisomers with high stereoselectivity. Additions of chiral radicals obtained from their bromides to ethyl acrylate show high 1,3-induction.



E- OR Z-SELECTIVE WITTIG REACTIONS IN THE SYNTHESIS
OF THE CARBACYCLIN ILOPROST

Jürgen Westermann*, Michael Harre and Klaus Nickisch
Schering AG, Berlin and Bergkamen, D 1000 Berlin 65, Germany

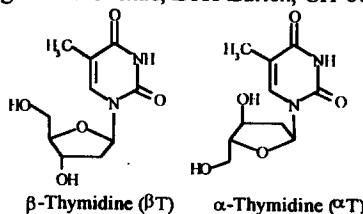
Wittig reaction of ketones 3 generates the exocyclic 5,6 double bond of iloprost in E/Z ratios between 35:65 and 90:10 depending on substituents and reaction conditions.



ANTIPARALLEL THYMINE-THYMINE DUPLEXES IN
OLIGONUCLEOTIDES CONTAINING α - AND β -THYMIDINE.

Ulf Neidlein, Christian Leumann, Laboratorium für Organische Chemie, ETH-Zürich, CH-8092 Zürich.

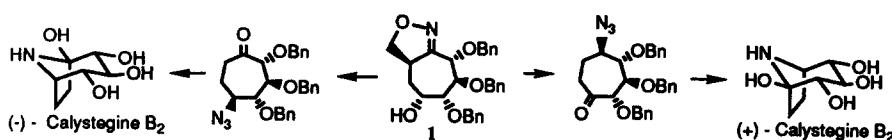
Oligonucleotide-sequences (14 to 21 nucleotides in length) consisting only of α -thymidine, as well as alternating (α T- β T)-sequences form antiparallel duplex-structures.



POLYHYDROXYLATED NORTROPANES STARTING FROM D-GLUCOSE: SYNTHESIS OF
HOMOCHIRAL (+) AND (-)-CALYSTEGINES B₂

O. Duclos, M. Mondange, A. Duréault*, J.C. Depeyaz, Université René Descartes, Laboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, associé au CNRS, 45 rue des Saints-Pères, 75270 Paris cedex 06, France

The cycloheptano-isoxazoline 1 is suitable for the synthesis of both (+) and (-)-calystegines B₂.



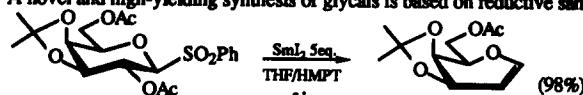
Reductive Elimination of Glycosyl Phenyl Sulfones by SmI₂-HMPA:

A Convenient Synthesis of Substituted Pyranoid Glycals

Pierre de Pouilly, Alain Chénédé, Jean-Maurice Mallet and Pierre Sinay*

Ecole Normale Supérieure, Laboratoire de Chimie, UA 1110,
24 Rue Lhomond, 75231 Paris Cedex 05, France

A novel and high-yielding synthesis of glycals is based on reductive samarium at the anomeric center.



Zinc-Copper Couple Promoted C-Branching in the Carbohydrate Series

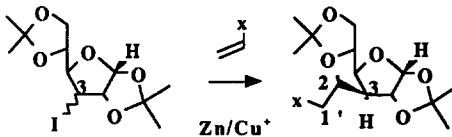
Tetrahedron Lett. 1992, 33, 8069

Pierre Blanchard, Adilson Da Silva, Jean-Louis Fourrey*, Antonio S. Machado and Malka Robert-Gero

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

Efficient C-branched at C-3 of glucose was accomplished by zinc/copper couple conjugate addition of its appropriate 3-iodo derivative to

various activated olefins, presumably *via* a radical pathway.



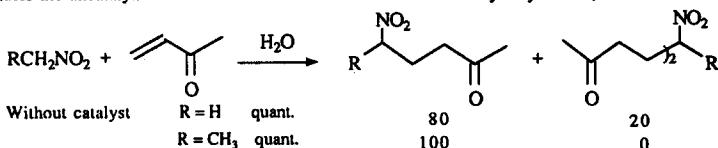
Water-promoted organic reactions.

Michael Addition of Nitroalkanes to Methylvinylketone under Neutral Conditions

André Lubineau and Jacques Augé*

Laboratoire de Chimie Organique Multifonctionnelle associé au CNRS, ICMO, Université de Paris-Sud, Bât 420, F-91405 ORSAY

Water as solvent promotes the uncatalyzed Michael reaction of nitroalkanes with methylvinylketone; the rate is enhanced in sugar solutions.

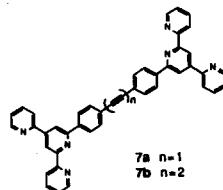


SYNTHESIS AND PROPERTIES OF NOVEL DITOPIC POLYPYRIDINE LIGANDS BRIDGED BY ONE AND TWO ACETYLENIC BONDS

Tetrahedron Lett. 1992, 33, 8075

Vincent Grosshenny and Raymond Ziessel*

Ecole Européenne des Hautes Industries Chimiques de Strasbourg
Institut de Physique et de Chimie des Matériaux de Strasbourg
1, rue Blaise Pascal, 67008 Strasbourg Cedex, France

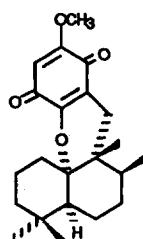


SMENOQUALONE, A NOVEL SESQUITERPENOID FROM THE MARINE SPONGE *SMENOSPONGIA* SP.

Tetrahedron Lett. 1992, 33, 8079

Marie-Lise Bourguet-Kondracki, Marie-Thérèse Martin and Michèle Guyot*, Muséum National d'Histoire Naturelle, Laboratoire de Chimie Appliquée aux Corps Organisés, associé au CNRS, 63 rue Buffon, 75231-PARIS Cedex 05, France.

Smenoqualone, a novel quinonic terpenoid with a rearranged drimane skeleton was isolated from a marine sponge *Smenospongia* sp. The stereostructure was determined by detailed analyses of ¹H and ¹³C NMR spectra, ¹H-¹H COSY, ¹H-¹³C correlations via HMQC, HMBC and NOE difference NMR experiments.

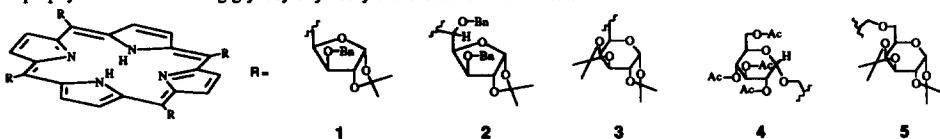


Synthesis of New *Meso*-Tetrakis (Glycosylated) Porphyrins.

Tetrahedron Lett. 1992, 33, 8081

Ph.Maillard, C.Huel and M.Momenteau*.
Institut Curie, Section de Biologie Laboratoire associé au CNRS et Unité INSERM, Bât 112,
Centre Universitaire, 91405 ORSAY, FRANCE

The synthesis of a new family of *meso*-tetrakis (glycosylated) porphyrins is reported. Unfortunately, the porphyrins 4 and 5 bearing glycosyloxymethylene substituents are unstable.

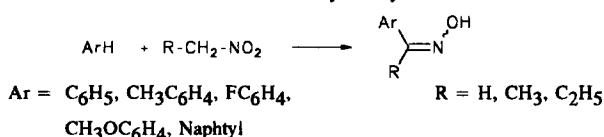


DIRECT CARBOHYDROXYMOYLATION OF AROMATICS WITH PRIMARY NITROALKANES IN TRIFLIC ACID (TFSa).

Tetrahedron Lett. 1992, 33, 8085

Jean-Marie Coustard, Jean-Claude Jacquay*, Bruno Violeau.
Laboratoire de Chimie XII, Faculté des Sciences, Poitiers (France)

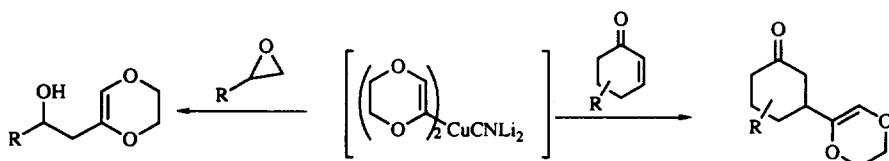
Primary nitroalkanes react with aromatics in TFSa at 70-80°C to yield arylated oximes in fair to excellent yields.



Preparation and Reactivity of Lithium 1,4-Dioxenyl Cuprates.

Tetrahedron Lett. 1992, 33, 8087

Valérie Blanchot-Courtois and Issam Hanna.*
Laboratoire de Synthèse Organique, Ecole Polytechnique, F-91128 Palaiseau, France.

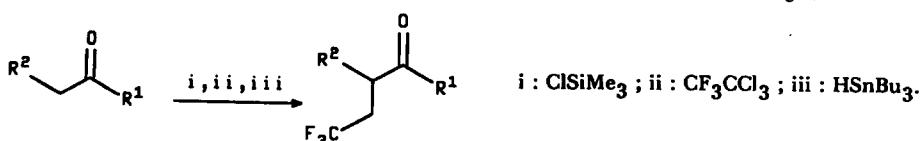


Synthesis of $\gamma\gamma\gamma$ -trifluorocarbonyl compounds

Tetrahedron Lett. 1992, 33, 8091

André J. LAURENT* and Stanislaw LESNIAK**

(*Université Claude Bernard-Lyon 1, Lab. de Chimie Organique 3, associé au CNRS, 43 Bd du 11 Novembre 1918
69622 Villeurbanne (France) (**)UNIV. LODZ, Institut of Chemistry, Narutowicza 68, 90-136 Lodz (Pologne)



TRACING BIOGENIC LINKS OF NATURAL ORGANIC SUBSTANCES AT THE MOLECULAR LEVEL
WITH STABLE CARBON ISOTOPES : *n*-ALKANES AND *n*-ALKANOIC ACIDS FROM SEDIMENTS

Eric A. LICHTFOUSE* and James W. COLLISTER#

Université Pierre et Marie Curie, INRA, CNRS, 75252 Paris Cedex 05, France. #University of Bristol, England.

The $^{13}\text{C}/^{12}\text{C}$ compositions of *n*-alkanes and *n*-alkanoic acids from Eocene sediments are correlated.



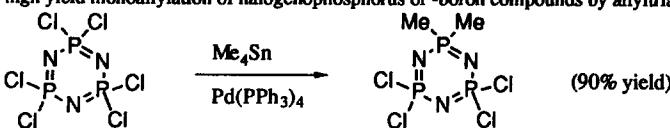
USE OF TIN DERIVATIVES FOR SELECTIVE ALLYLATION
AND METHYLATION OF HALOGENOPHOSPHORUS COMPOUNDS

Hervé Rolland,^a Philippe Potin,^b Jean-Pierre Majoral^a and Guy Bertrand.^b

^aLaboratoire de Chimie de Coordination du CNRS, 205, route de Narbonne, 31077 Toulouse Cédex (France)

^bGroupe de Recherches de Lacq, ATOCHEM, BP 34, 64170 Artix (France)

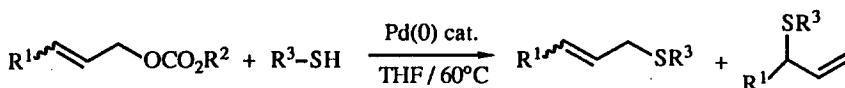
Palladium(0) catalyzed gem-dimethylation of hexachlorocyclotriphosphazene with tetramethylstannane is described as well as the high yield monoallylation of halogenophosphorus or -boron compounds by allyltrialkylstannanes under photolytic conditions.



SYNTHESIS OF ALLYL ARYL SULPHIDES BY PALLADIUM(0)-MEDIATED ALKYLATION OF THIOLS.

Catherine Goux, Paul Lhoste and Denis Sinou*, Laboratoire de Synthèse Asymétrique, associé au CNRS, Université Claude Bernard Lyon I, 43 Boulevard du 11 Novembre 1918, 69622 Villeurbanne Cédex, France.

Various allylic aryl sulphides are readily prepared in high yields by the palladium(0)-catalyzed *S*-alkylation of allylic carbonates by various aromatic thiols.

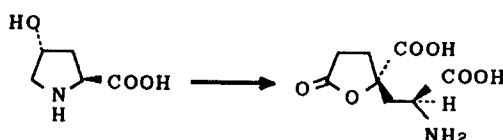


FIRST SYNTHESIS OF LYCOPERICIDIC ACID

Mamoru Kaname and Shigeyuki Yoshihiji *

School of Pharmacy, Hokuriku University,
Ho-3 Kanagawa-machi, Kanazawa, 920-11, Japan

Lycoperdic acid, (2*S*,2'S)-2-amino-3-(2'-carboxy-5'-oxo-2'-tetrahydrofuranyl)propanoic acid, was synthesized from *trans*-4-hydroxy-L-proline.

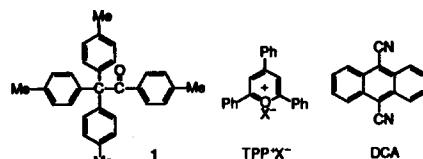


S_N1-Type Mechanism for the Carbon-Carbon Bond Cleavage of Tetrakis(4-methylphenyl)ethanone Cation Radical. A Laser Flash Photolysis Study

Ryoichi Akaba,* Masaki Kamata, Hirochika Sakuragi, and Katsumi Tokumaru

Department of Chemistry, Gunma College of Technology, Toriba-machi, Maebashi, Gunma 371, Department of Chemistry, Faculty of Education, Niigata University, Ikarashi, Niigata 950-21, and Department of Chemistry, University of Tsukuba, Tsukuba, Ibaraki 305, Japan

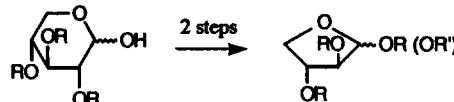
Mechanism of carbon-carbon bond cleavage of tetrakis(4-methylphenyl)-ethanone cation radicals generated by photoinduced electron transfer with TPP⁺X⁻ and DCA as sensitizers is described.



ONE-CARBON EXTRUSION FROM CARBOHYDRATES VIA C1-ALKOXY RADICAL FRAGMENTATION. AN EASY ACCESS TO ERYTHROSE AND THREOSE

Junji Inanaga,* Yuichi Sugimoto, Yasuo Yokoyama, and Takeshi Hanamoto
Institute for Molecular Science, Myodaiji, Okazaki 444, Japan

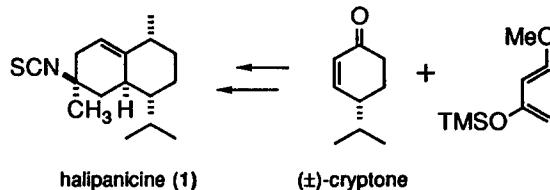
A mild and convenient method for the conversion of pyranose derivatives to the corresponding one-carbon reduced furanosides.



SYNTHESIS OF (±)-HALIPANICINE, A MARINE SESQUITERPENE ISOTHIOCYANATE ISOLATED FROM AN OKINAWAN MARINE SPONGE HALICHONDRIA PANICEA

Hideshi Nakamura,* Bin Ye, and Akio Murai
Department of Chemistry, Faculty of Science,
Hokkaido University, Sapporo 060, Japan

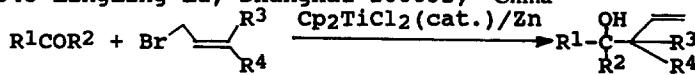
Halipanicine (1) was synthesized as a racemic form in 21 steps from cryptone and Danishefsky diene in 7.7% total yield, establishing the relative stereostructure of 1.



A Highly Efficient Addition of Allylic Bromide to Carbonyl Compounds Using Cp₂TiCl₂(cat.)/Zn System

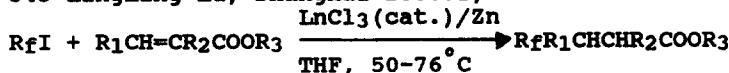
Yu Ding* and Gang Zhao

Shanghai Institute of Organic Chemistry, Academia Sinica,
345 LingLing Lu, Shanghai 200032, China



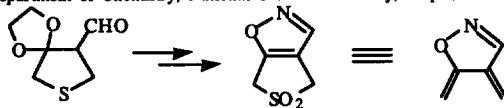
$\text{LnCl}_3(\text{cat})/\text{Zn}$ Promoted Hydroperfluoroalkylation of α,β -Unsaturated Esters With Perfluoroalkyl Iodides

Yu Ding*, Gang Zhao and WeiYuan Huang
Shanghai Institute of Organic Chemistry, Academia Sinica,
345 LingLing Lu, Shanghai 200032, China.



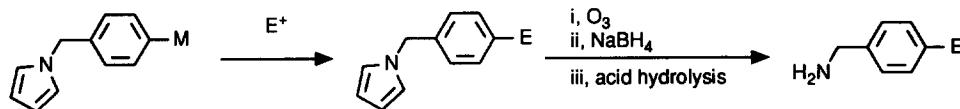
Synthesis of *o*-Dimethylene Isoxazole via Isoxazole-fused 3-Sulfolene

Ta-shue Chou* and Ruei-Chih Chang
Institute of Chemistry, Academia Sinica, Taipei, Taiwan
Department of Chemistry, National Taiwan University, Taipei, Taiwan, ROC



PROTECTION OF PRIMARY AMINO AS PYRROLE IN ORGANOMETALLIC REAGENTS

Anthony P. Davis* and Thomas J. Egan, Department of Chemistry, Trinity College, Dublin 2, Ireland



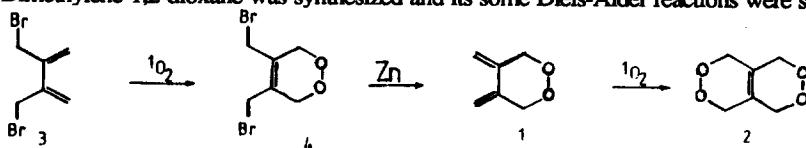
This form of protection suppresses both the acidity and basicity of R-NH₂, is compatible with strongly basic conditions, and can be removed with relative ease.

4,5-DIMETHYLENE-1,2-DIOXANE AND DERIVED DIELS-ALDER ADDUCTS.

Basri Atasoy*^a, Serdar Karaböcek^b, Gazi University, Ankara/TURKEY

a) Department of Sciences, Faculty of Education. b) Department of Chemistry, Faculty of Art and Sciences.

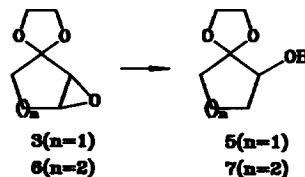
4,5 Dimethylene-1,2-dioxane was synthesized and its some Diels-Alder reactions were studied.



**REGIOSELECTIVE REDUCTIONS OF 2,3-EPOXY ACETALS
WITH LITHIUM ALUMINUM HYDRIDE: A REINVESTIGATION.**

Helena M.C.Ferraz, Regina M. Sasahara and Pellegrino Losco
I.Q.USP - CP 20780 - S.Paulo-Brazil.

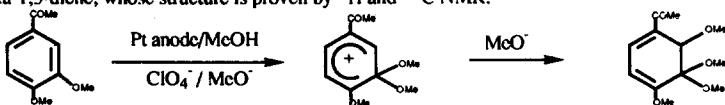
Treatment of 2,3-epoxy acetals 3 and 6 with lithium aluminum hydride gave the corresponding 2-hydroxy acetals 5 and 7. The alcohol 5 was transformed in two steps into the 1,2-cyclopentanedione.



An Unusual Anodic Methoxylation: 3,4-dimethoxyacetophenone

Geoffrey E. Hawkes^a, Janc E. Hawkes^b, Francisco C.M. Cominios^c, Vera L. Pardini^c, and Hans Vicrler^{c*}. ^aDepartment of Chemistry, Queen Mary & Westfield College, Mile End Road, London E1 4NS, England; ^bDepartment of Chemistry, King's College, Strand, London WC1 2RS, England; ^cInstituto de Química, Universidade de São Paulo, C.P. 20780, 01498 São Paulo, Brazil.

The electrolysis of 3,4-dimethoxyacetophenone in methanol at a platinum anode gives a high yield of 1-acetyl-4,5,5,6-tetramethoxycyclohexa-1,3-diene, whose structure is proven by ¹H and ¹³C NMR.

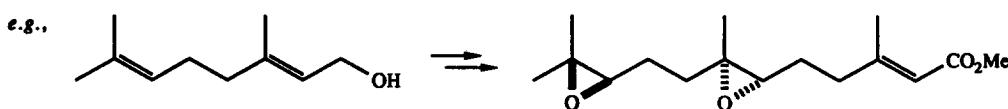


SYNTHESIS OF FOUR STEREOISOMERS OF THE HIGHER DIPTERAN JUVENILE HORMONE III BISEPOXIDE

Rodney W. Rickards* and Richard D. Thomas

Research School of Chemistry, Australian National University, G.P.O. Box 4, Canberra, A.C.T. 2601, AUSTRALIA

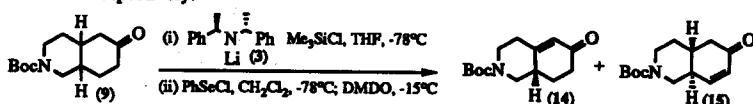
Four stereoisomers of JHB₃ are prepared from geraniol via Sharpless epoxidation



**A NOVEL REGIODIVERGENT RESOLUTION REACTION
MEDIATED BY A HOMOCHIRAL LITHIUM AMIDE BASE**

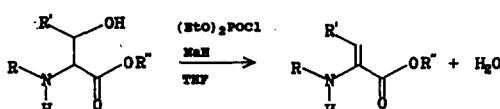
Kimberley Bambridge and Nigel S. Simpkins*, Department of Chemistry, University of Nottingham, University Park, Nottingham, NG7 2RD, UK, and Barry P. Clark, Lilly Research Centre Ltd, Eli Lilly and Co., Erl Wood Manor, Windlesham, Surrey, GU20 6PH, UK.

Treatment of racemic *trans*-perhydroisoquinolone 9 with homochiral lithium amide base 3 allows access to unsaturated products 14 and 15 in 83% and 60% ee respectively.



ONE-STEP STEREOSELECTIVE SYNTHESIS OF α,β -DEHYDROAMINOACIDS AND DEHYDROPEPTIDESFederico Bert^a, Cynthia Ebert^b, Lucia Gardossi^b^aDipartimento di Scienze Chimiche, ^bDipartimento di Scienze Farmaceutiche, - Università di Trieste, piazzale Europa 1, 34127 Trieste, Italy.

Dehydroaminoacids and dehydopeptides were prepared by one-pot reaction. The reaction is stereospecific and proceeds without racemization.

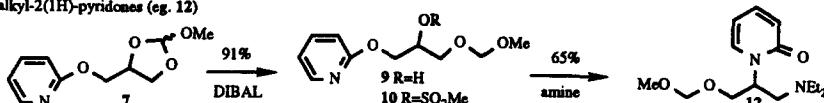
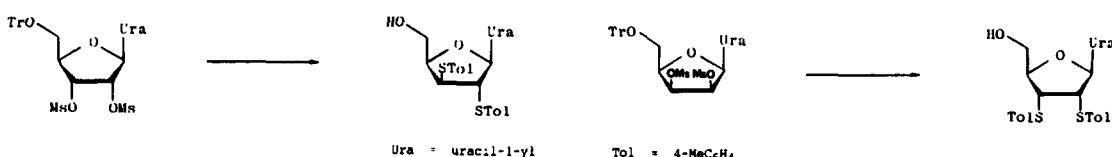


Substrates	Products	R	R'	R''
1	5	CBZ	H	CH ₂ Ph
2	6	CBZ	CH ₃	CH ₃
3	7	CBZ-Ala	H	CH ₃
4	8	CBZ-Phe	CH ₃	CH ₃

THE PREPARATION OF N-ALKYL-2(1H)-PYRIDONES
BY THE REACTION OF AMINES WITH A DERIVATIVE
OF 3-(2-PYRIDYL)PROPANE-1,2-DIOL

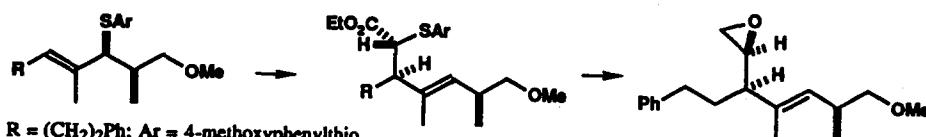
Michael H. Block, ICI Pharmaceuticals, Mereside, Alderley Park, Macclesfield, Cheshire, SK10 4TG, England.

Reduction of the 2-pyridyl orthoester 7 with DIBAL gives exclusively 9 in excellent yield. Mesylation of 9 and reaction with amines gives N-alkyl-2(1H)-pyridones (eq. 12)

DERIVATIVES OF 2',3'-DITHIOURIDINE AND [1- β -D-(2,3-DITHIOXYLO-FURANOSYL)JURACILRichard Johnson^a, Bhalchandra V. Joshi^a, Stephen Neidle^b, Colin B. Reese^{a*}, and Chris F. Snook^b^aDepartment of Chemistry, King's College London, Strand, London, WC2R 2LS, England^bInstitute of Cancer Research, Clifton Avenue, Sutton, Surrey, SM2 5PX, EnglandSTEREOSPECIFICITY AND STEREOSELECTIVITY
IN THE [2,3] SIGMATROPIC REARRANGEMENT
OF OPEN CHAIN SULPHONIUM YLIDES

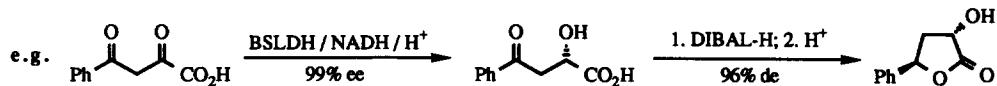
Richard C. Hartley and Stuart Warren, University Chemical Laboratories, Lensfield Road, Cambridge, CB2 1EW

and Ian C. Richards, Schering Agrochemicals Ltd, Chesterford Park Research Station, Saffron Walden, Essex, CB10 1XL.



STEREOSELECTIVE ROUTES TO CHIRAL 2-HYDROXY-4-OXO ACIDS AND SUBSTITUTED 2-HYDROXYBUTYROLACTONES USING LACTATE DEHYDROGENASES
 Guy Casy, School of Chemistry and Molecular Recognition Centre, University of Bristol, Cantock's Close, Bristol BS8 1TS, UK.

Sequential enzymatic and chemical reduction of 2,4-dioxo acids gives chiral 2-hydroxybutyrolactones.



DEPROTECTION OF THIOACETALS AND 1,3-DITHIANES WITH DIMETHYLSULPHOXIDE

Ch. Srinivasa Rao, M.Chandrasekharan, H.Ila* and H.Junjappa*
 Department of Chemistry, North-Eastern Hill University,
 Shillong - 793 003, Meghalaya, India

A facile method for dethioacetalization of thioacetals and 1,3-dithianes on heating in DMSO under neutral conditions to afford the corresponding carbonyl compounds in good yields.

