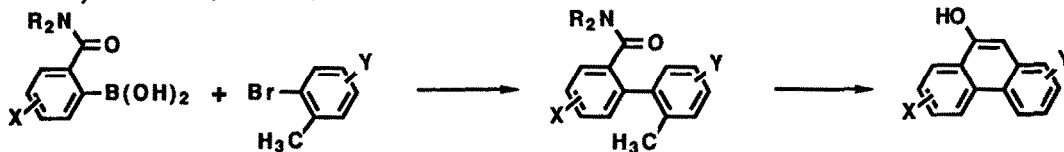


GRAPHICAL ABSTRACTS

Tetrahedron Lett. 29, 5459 (1988)

THE DIRECTED ORTHO METALATION TO ARYL-ARYL CROSS COUPLING. A GENERAL REGIOSPECIFIC SYNTHESIS OF PHENANTHROLS

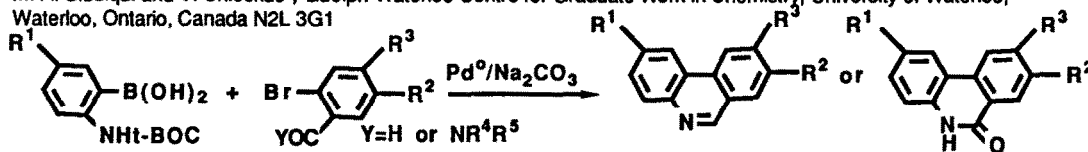
Jian-min Fu, M. J. Sharp, and V. Snieckus*, Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1



Tetrahedron Lett. 29, 5463 (1988)

THE DIRECTED METALATION CONNECTION TO ARYL-ARYL CROSS COUPLING. REGIOSPECIFIC SYNTHESIS OF PHENANTHRIDINES, PHENANTHRIDINONES AND THE BIPHENYL ALKALOID ISMINE

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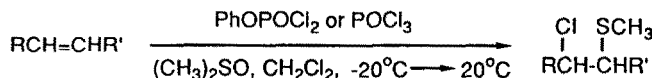
Tetrahedron Lett. 29, 5467 (1988)

A FACILE METHOD FOR THE SYNTHESIS OF β -CHLOROALKYL SULFIDES USING DIMETHYL SULFOXIDE ACTIVATED BY PHENYL DICHLOROPHOSPHATE OR PHOSPHORUS OXYCHLORIDE

Hsing-Jang Liu* and James M. Nyangulu

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A simple procedure has been developed for the transformation of alkenes to β -chloroalkyl sulfides using dimethyl sulfoxide activated with phenyl dichlorophosphate or phosphorus oxychloride.



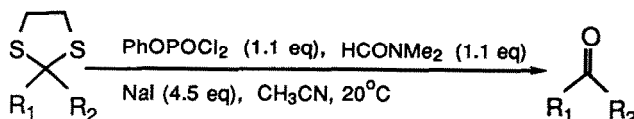
Tetrahedron Lett. 29, 5471 (1988)

A NEW PROCEDURE FOR DETHIOACETALIZATION

Hsing-Jang Liu* and Virginia Wiszniewski

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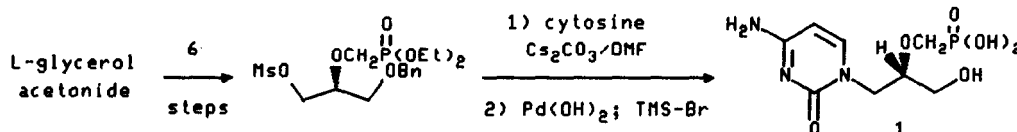
A simple procedure has been developed for the conversion of thioacetals to the corresponding carbonyl compounds using the combination of phenyl dichlorophosphate, dimethylformamide and sodium iodide.



Tetrahedron Lett., 29, 5475 (1988)

SYNTHESIS OF (S)-N¹-(3-HYDROXY-2-PHOSPHONYLMETHOXY)PROPYL-CYTOSINE ((S)-HPMPC), R. Webb11,* J. Wos, J. Bronson and J. Martin, Bristol-Myers, Wallingford, Connecticut 06492-7660

(S)-HPMPC 1 has been synthesized by direct cesium carbonate promoted alkylation of cytosine with an appropriately constructed glycerol phosphonate side chain.



Tetrahedron Lett., 29, 5479 (1988)

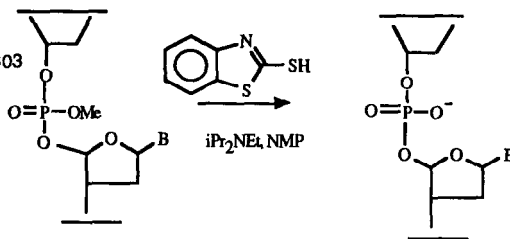
2-MERCAPTOBENZOTHAZOLE--AN IMPROVED REAGENT FOR THE REMOVAL OF METHYL PHOSPHATE PROTECTING GROUPS FROM OLIGODEOXYNUCLEOTIDE PHOSPHOTRIESTERS.

Alex Andrus and Serge Beaucage

Beckman Instruments Inc., 1050 Page Mill Road, Palo Alto, CA 94303

2-Mercaptobenzothiazole and diisopropylethylamine in N-methylpyrrolidinone efficiently removes methyl phosphate protecting groups from deoxynucleotide phosphotriesters.

This odorless reagent can substitute for hazardous thiophenol in oligonucleotide synthesis.

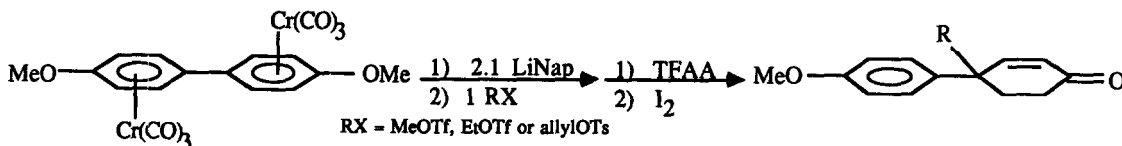


Tetrahedron Lett., 29, 5483 (1988)

A NOVEL SYNTHESIS OF 4-ALKYL-4-(4-METHOXYPHENYL)CYCLOHEX-2-EN-1-ONES AND THE Sceletium Alkaloid, O-Methyljoubertamine.

Louis D. Schulte and Reuben D. Riecke*

Department of Chemistry, University of Nebraska-Lincoln
Lincoln, Nebraska 68588-0304 U.S.A.

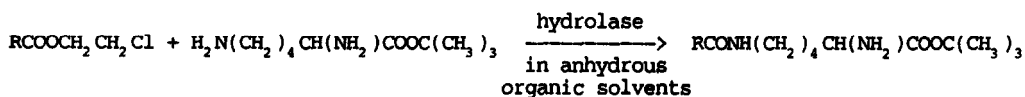


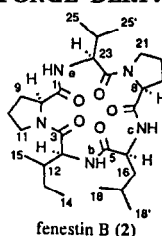
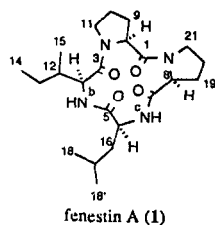
Tetrahedron Lett., 29, 5487 (1988)

ENZYMATIC FORMATION OF AN ISOPEPTIDE BOND INVOLVING THE ε-AMINO GROUP OF LYSINE

Hiroshi Kitaguchi, Dar-Fu Tai, and Alexander M. Klivanov*

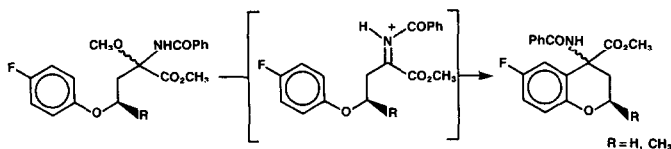
Department of Chemistry, Massachusetts Institute of Technology, Cambridge, MA 02139 U.S.A.



NOVEL MARINE SPONGE DERIVED AMINO ACIDS 7.**THE FENESTINS**Siraj Omar⁺, Laura Tenenbaum⁺, Lawrence V. Manes[#], and Phillip Crews^{+*}Department of Chemistry and Institute for Marine Sciences, University of California, Santa Cruz, Ca. 95064⁺, and Syntex Research, Palo Alto Ca. 94043Cyclic peptides, fenestins A (1), B (2) and a known diketopiperazine, cyclo-(L-Pro-L-Val) (3) are reported from the sponge Leucophloeus fenestrata.**NEW SYNTHESIS OF SPIRO-BENZOPYRAN AMINO ACIDS BY INTRAMOLECULAR AMIDOALKYLATION**

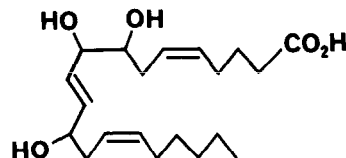
Frank J. Urban

Pfizer Central Research, Groton, Connecticut 06340

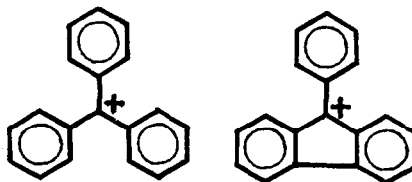
**ENANTIOSPECIFIC SYNTHESIS OF ISOMERIC 8,9,12-TRIHIDROXYEICOSA-5(Z),10(E),14(Z)-TRIENOIC ACIDS**

Pendri Yadagiri, Dong-Soo Shin, and J.R. Falck*

Departments of Molecular Genetics and Pharmacology, University of Texas Southwestern Medical Center, Dallas, Texas 75235 USA

Five stereoisomers of the 8,9,10-trihydroxy eicosanoid isolated from platelets were prepared by β -oxido ylide homologation of a carbohydrate-derived precursor.**ON THE ¹H-NMR SPECTRA OF HIGHLY CHARGED MULTI-TRIPHENYLMETHYLIUM IONS**C. F. Wilcox^{*}, Department of Chemistry, Cornell University, Ithaca, NY14853-1301, USA; D. Hellwinkel^{*}, H. Stahl, H. G. Gaa and M. Dörner,

Organisch-chemisches Institut der Universität, D-6900 Heidelberg, FRG

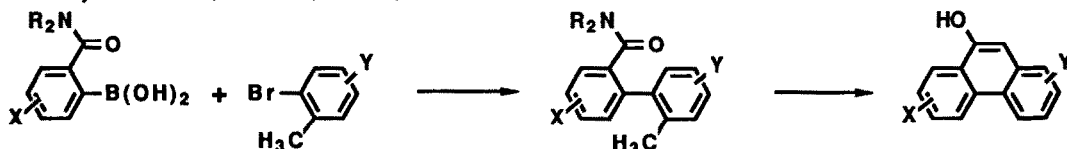
A Hückel model is presented for calculating the downfield ¹H-NMR shifts of highly charged multi-tritylium ions and the contrasting upfield shifts of the corresponding fluorenylium ions.

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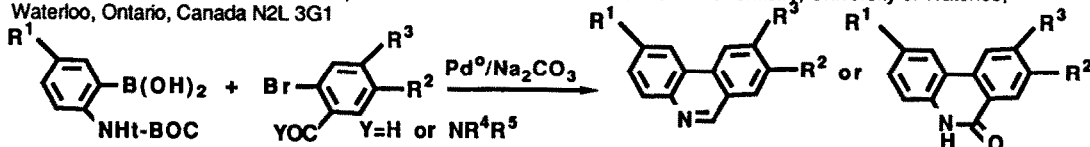
Jian-min Fu, M. J. Sharp, and V. Snieckus*, Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1



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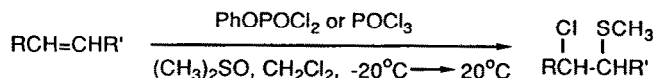
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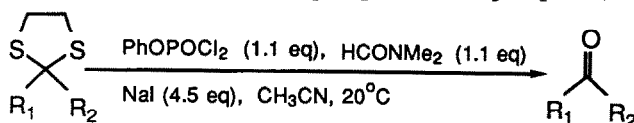
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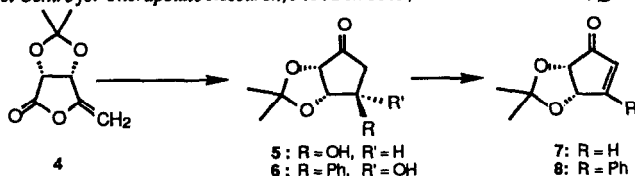
Department of Chemistry, The University of Alberta, Edmonton, Alberta, Canada T6G 2G2

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**CARBOCYCLES FROM CARBOHYDRATES:
A SIMPLE ROUTE TO AN ENANTIOMERICALLY PURE PROSTAGLANDIN
INTERMEDIATE.**

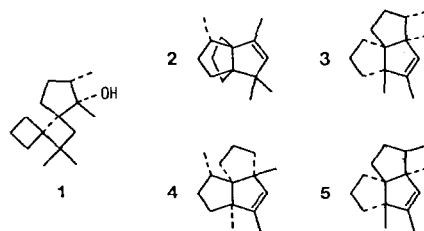
Pascale Bélanger and Petpiboon Prasit *
Merck Frosst Centre for Therapeutic Research, P.O. Box 1005, Pointe Claire-Dorval, Québec, Canada.



**(±)MODHEPHENE AND (±)ISOCOMENE
VIA CASCADE REARRANGEMENT**

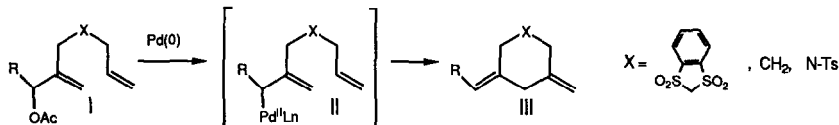
Lutz Fitjer *, Andreas Kanschik and Marita Majewski
Institut für Organische Chemie der Universität Göttingen,
Tammannstr. 2, D-3400 Göttingen, Germany

Dispiro[3.0.4.2]undecane **1** has been synthesized and rearranged to (±)modhephene **2** and triquinane **3** under kinetic control, and to (±)isocomene **4** and triquinane **5** under thermodynamic control.



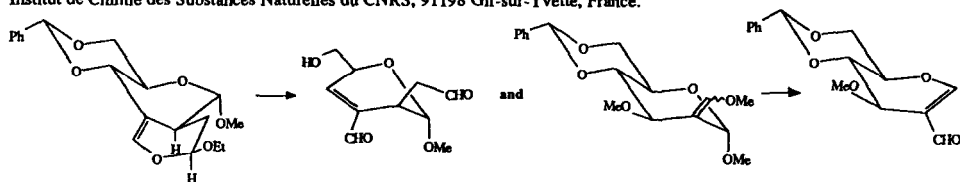
**CATALYTIC INTRAMOLECULAR 2-(4-ALKENYL)ALLYLPALLADIUM
INSERTIONS**

Wolfgang Oppolzer *, Rolf E. Swenson and Jean-Marc Gaudin
Département de Chimie Organique, Université de Genève, CH-1211 Genève 4, Switzerland
Pd(0)-catalyzed cyclizations **I** \rightarrow **III** proceed, via an allylpalladium species (e.g. **II**), with high regio- and stereoselectivity which is opposite to the type-II-magnesium-ene process.



AN EFFICIENT ROUTE TO HOMOLOGATED PYRANOSIDIC CONJUGATED ENALS.

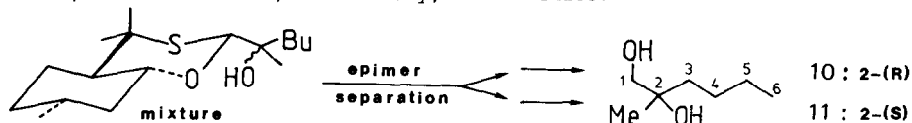
Catherine Burnouf, J. Cristobal Lopez *, Maria de los A. Laborde, Alain Olesker and Gabor Lukacs *.
Institut de Chimie des Substances Naturelles du CNRS, 91198 Gif-sur-Yvette, France.



AN EFFICACIOUS SYNTHESIS OF OPTICAL ACTIVE
2-METHYL-1,2-HEXANEDIOLS

Humberto Cervantes-Cuevas and Pedro Joseph-Nathan*

Departamento de Química del Centro de Investigación y de Estudios Avanzados, Instituto Politécnico Nacional, P.O. Box 14-740, Mexico City, 07000 México.

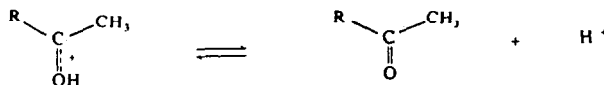


ACIDITY CONSTANTS OF PROTONATED SIMPLE CARBONYL COMPOUNDS;

COMMENTS ON LITERATURE DATA AND INDIRECT ESTIMATES

by Jean Toullec

I.T.O.D.Y.S., Université Paris 7/C.N.R.S., 1 rue Guy de la Brosse, Paris, France



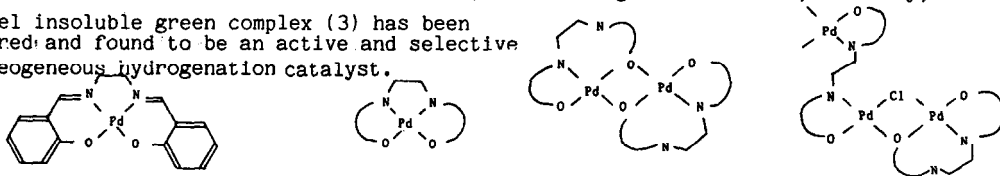
pK_a values, more realistic than literature data, are estimated from rate and equilibrium constants for acid-catalysed keto-enol tautomerisation.

SELECTIVE HYDROGENATION BY A NOVEL PALLADIUM(II) COMPLEX

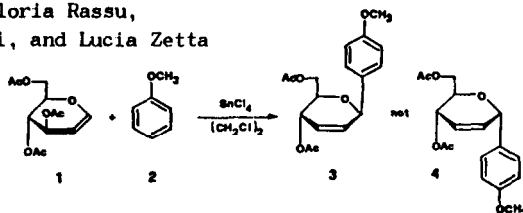
James M. Kerr and Colin J. Suckling*

Department of Pure and Applied Chemistry, University of Strathclyde, 295, Cathedral Street, Glasgow G1 1XL, Scotland, and Peter Banfield, ICI Plc Organics Division, Blackley, Manchester

A novel insoluble green complex (3) has been prepared and found to be an active and selective heterogeneous hydrogenation catalyst.

2,3-UNSATURATED C-GLUCOPYRANOSIDES: A GUIDELINE TO THE
ANOMERIC CONFIGURATIONAL ASSIGNMENT

Giovanni Casiraghi, Mara Cornia, Lino Colombo, Gloria Rassu,
Giovanna Gasparri Fava, Marisa Ferrari Belicchi, and Lucia Zetta
Dipartimento di Chimica dell'Università,
Via Vienna, 2 I-07100 Sassari, Italy



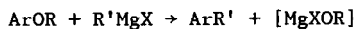
Tetrahedron Lett. 29,5553 (1988)

CATALYSED IPSO REPLACEMENT OF PHENOLIC ETHERS BY GRIGNARD REAGENTS

by Robert A.W. Johnstone and W. Neil McLean

(Department of Organic Chemistry, University of Liverpool, Liverpool L69 3BX).

The cross-coupling of tetrazolyl ethers of phenols (ArOR) with Grignard reagents gives alkyl or aryl substituted arenes.



Tetrahedron Lett. 29,5557 (1988)

KINETIC ESR FOR SELF REACTIONS OF PERFLUOROALKYL ETHER PEROXYRADICALS

A. Fautitano, A. Buttafava, F. Martinotti.

Dipartimento di Chimica Generale dell'Università, V.le Taramelli, 12 - PAVIA (Italy)

G. Marchionni, R.J. De Pasquale

Montefluos - Bollate (Milano)



Decay rate constants determined by kinetic ESR. Strong fluorine substituents effects observed.

Tetrahedron Lett. 29,5561 (1988)

**NEW STRATEGY FOR RACEMIZATION OF 2-AMINO-1,3-PROPANEDIOLS,
KEY INTERMEDIATES FOR THE SYNTHESIS OF ANTIBIOTIC DRUGS.**

*Claudio Giordano**, *Silvia Cavicchioli*,
Silvio Levi, *Marco Villa*.

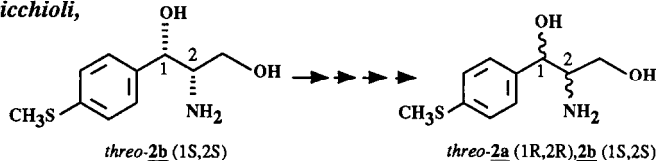
Istituto di Ricerca Chimica

"G. Zambon"

Zambon Group S.p.A.

via Cimabue 26,

20032 Cornano-MI-Italy



Tetrahedron Lett. 29,5565 (1988)

**PALLADIUM CATALYSED TANDEM CYCLISATION-ANION CAPTURE PROCESSES.
STEREOSPECIFIC GROUP TRANSFER FROM ORGANOTIN REAGENTS.**

Barry Burns, Ronald Grigg* Pinitit Ratananukul, Visuvanathar

Sridharan, Paul Stevenson, Sukanthini Sukirthalingam and Tanachat Worakun

Department of Chemistry, The Queen's University of Belfast, Belfast, BT9 5AG, Northern Ireland.

Tandem cyclisation-anion capture from organotin reagents is a powerful new method for the regio- and stereo-specific generation of tetra-substituted olefins and for the rapid assembly of polyfunctional carbo- and hetero-cyclic compounds.

