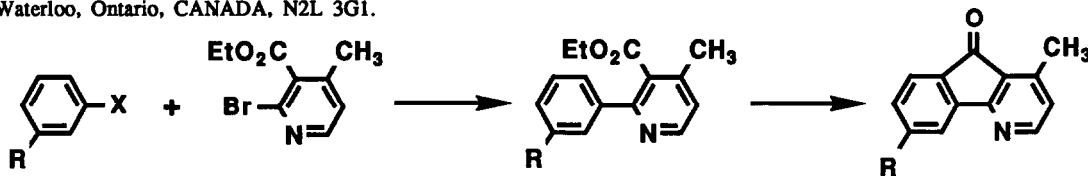


GRAPHICAL ABSTRACTS

Tetrahedron Lett. 29, 2135 (1988)

Short Synthesis of Azafluorenone Alkaloids Using Transition Metal-Catalyzed Cross Coupling Tactics

T. Alves, V. Snieckus*. Guelph-Waterloo Centre for Graduate Work in Chemistry, University of Waterloo, Waterloo, Ontario, CANADA, N2L 3G1.

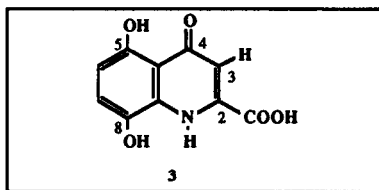


AN ANTIBACTERIAL PIGMENT FROM THE SPONGE *DENDRILLA MEMBRANOSA*.

Tetrahedron Lett. 29, 2137 (1988)

Tadeusz F. Molinski and D. John Faulkner*
Scripps Institution of Oceanography (A-012F)
University of California, San Diego, La Jolla, CA 92093, USA.

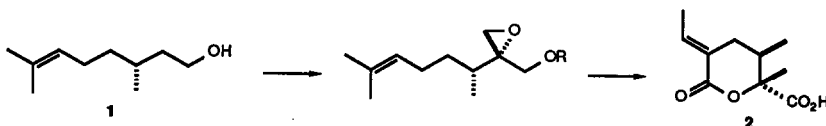
Abstract: The antimicrobial component of the Antarctic sponge, *Dendrilla membranosa*, was identified as 4,5,8-trihydroxyquinoline-2-carboxylic acid (3) by interpretation of spectral data and confirmed by synthesis.



A NOVEL SYNTHESIS OF (+)-INTEGERRINEIC ACID LACTONE FROM R-(+)- β -CITRONELLOL

Tetrahedron Lett. 29, 2139 (1988)

James D. White and Lalith R. Jayasinghe
Department of Chemistry, Oregon State University, Corvallis, Oregon, 97331

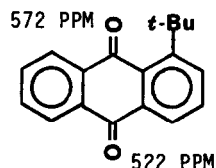


R-(+)- β -Citronellol (1) was converted by two routes to (+)-integerrineic acid lactone (2).

^{17}O NMR SPECTROSCOPY: ORIGIN OF DESHIELDING EFFECTS IN RIGID, PLANAR MOLECULES

A.L. Baumstark,* M. Dotrong, R.R. Stark, and D.W. Boykin*
Department of Chemistry, LMBS, Georgia State University,
Atlanta, GA 30303 USA

^{17}O NMR data for hindered carbonyls in planar quinones and flavones showed large deshielding effects and correlated with repulsive van der Waals interactions.

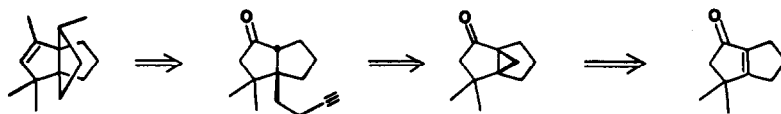


Tetrahedron Lett. 29, 2143 (1988)

HOMOCHIRAL KETALS IN ORGANIC SYNTHESIS. ENANTIOSELECTIVE PREPARATION OF (+)-MODHEPHENE

Eugene A. Mash*, Shivanand K. Math, and Christopher J. Flann
Department of Chemistry, University of Arizona, Tucson, Arizona 85721

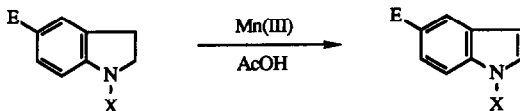
The first enantioselective synthesis of the title compound **1** is described.



THE MANGANESE(III) ACETATE OXIDATION OF N-PROTECTED INDOLINES

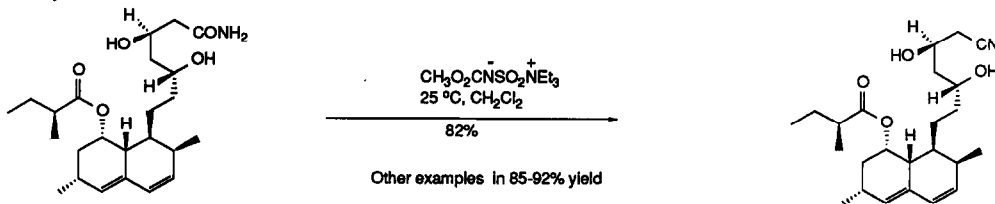
Daniel M. Ketcha
Department of Chemistry, Wright State University, Dayton, OH 45435

A variety of N-protected indolines can be oxidized to the corresponding indoles using manganese(III) acetate in glacial acetic acid.



AN EFFICIENT AND CHEMOSELECTIVE SYNTHESIS OF NITRILES FROM PRIMARY AMIDES

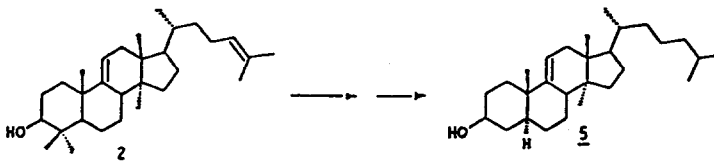
David A. Claremon* and Brian T. Phillips Merck Sharp and Dohme Research Laboratories
West Point, Pennsylvania 19486



BIOSYNTHETIC STUDIES OF MARINE LIPIDS 15. CONVERSION OF PARKEOL (LANOSTA-9(11),24-DIEN-3B-OL) TO 14α-METHYLCHOLEST-9(11)-EN-3B-OL IN THE SEA CUCUMBER HOLOTHURIA ARENICOLA

Lucinda M. Cordeiro, Russell G. Kerr and Carl Djerassi*, Department of Chemistry, Stanford University, Stanford, CA 94305

Through radiolabelling experiments in the sea cucumber *Holothuria arenicola* it was shown that parkeol (**2**) rather than lanosterol (**3**) or cycloartenol (**4**) is the biosynthetic precursor to the rare class of $\Delta^{9(11)}$ -14 α -methyl sterols (**5**).

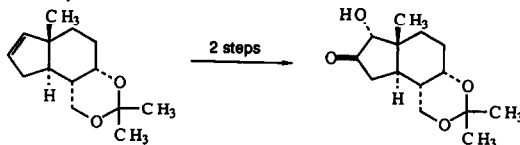


PREPARATION OF α -KETOLS BY OXIDATIVE RING-OPENING OF EPOXIDES.

Tetrahedron Lett. 29, 2163 (1988)

Barry M. Trost* and M. Jonathan Fray
 Department of Chemistry, University of Wisconsin, Madison, WI 53706
 Department of Chemistry, Stanford University, Stanford, CA 94305

Chemo- regio-, and diastereoselective formation of α -hydroxyketones from olefins.

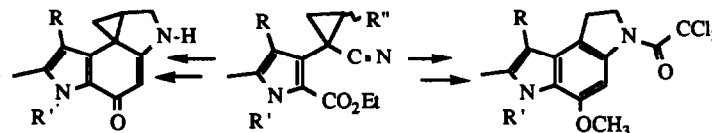


CYCLOPROPANE CHEMISTRY RELATED TO THE ALKALOID CC-1065

Tetrahedron Lett. 29, 2167 (1988)

Thomas A. Bryson and Gary A. Roth
 Department of Chemistry, University of South Carolina, Columbia, SC 29208

Aspects of cyclopropane chemistry relative to the subunits of CC-1065 are discussed

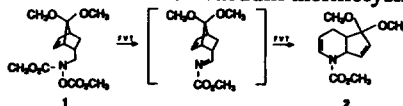


A METHOD FOR THE FLASH VACUUM THERMOLYSIS OF NON-VOLATILE COMPOUNDS

Tetrahedron Lett. 29, 2171 (1988)

Joe Magrath and Frank W. Fowler*
 Department of Chemistry, State University of New York at Stony Brook, Stony Brook New York 11794

A method for the evaporation of non-volatile compounds into the gas phase is described. Examples are given of the application of this method to the flash vacuum thermolysis of organic compounds.

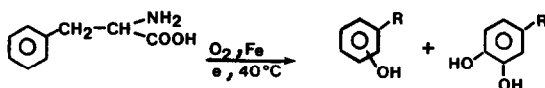


Tetrahedron Lett. 29, 2177 (1988)

PRODUCTION OF L DOPA FROM L PHENYLALANINE

M. Blanchard, C. Bouchoule, G. Djaneje-Boundjou et P. Canesson
 Université de Poitiers, Faculté des Sciences, Laboratoire de Chimie XI
 40, Avenue du Recteur Pineau 86022 Poitiers Cédex (France)

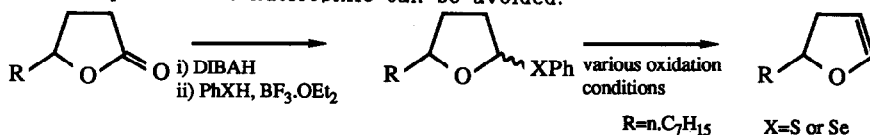
Tyrosines and L DOPA are obtained by oxidation of L Phenylalanine with Fe EDTA



REACTIVITY OF MONOTHIO- AND MONOSELENOACETALS TOWARDS OXIDATION IN THE SYNTHESIS OF SUBSTITUTED 2,3-DIHYDROFURANS.

A.P. Brunetière and J.Y. Lallemand, Laboratoire de Synthèse Organique, Ecole Polytechnique, 91128 Palaiseau Cedex.

As a part of search for mild conditions in the preparation of dihydrofurans, the reactivity of monothio- and monoselenoacetals towards oxidation has been studied. Dihydrofurans are obtained if the presence of nucleophile can be avoided.

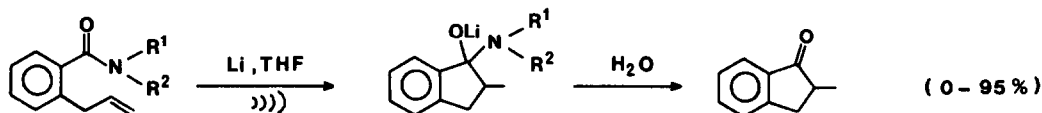


ULTRASOUND IN ORGANIC SYNTHESIS 15. RADICAL CYCLISATION OF O-ALLYL BENZAMIDES VIA THE SONOCHEMICALLY GENERATED RADICAL ANIONS

Jacques Einhorn, Cathy Einhorn, Jean-Louis Luche

Laboratoire d'Etudes Dynamiques et Structurales de la Sélectivité, Université Joseph FOURIER, Bât 52 Chimie Recherche - BP.68 - 38402 Saint Martin d'Hères Cedex, FRANCE

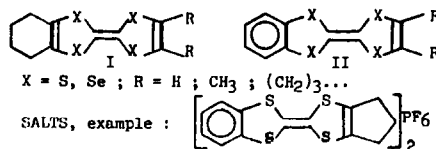
The yield of 2-methyl 1-indanone is highly dependent on the nature of R^1 and R^2



NEW RADICAL-CATION SALTS CONTAINING AN UNSYMMETRICALLY SUBSTITUTED TTF or TSF TYPE π -DONOR. SYNTHESIS AND CHARACTERIZATION.

J.M. FABRE¹, A.K. GOUASMIA¹, L. GIRAL¹, D. CHASSEAU¹
 1.Chim. Org. Struct. U.S.T.L. 34060 MONTPELLIER.
 2.Radiocrist. UNIV.BORDEAUX-I- 33405 TALENCE.

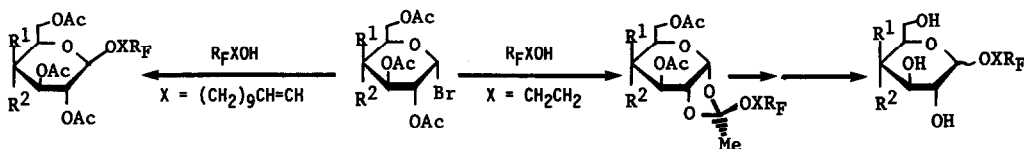
Compounds of series I and II are synthesized and their salts prepared by electro-synthesis. The electrical conductivity and some structural data of these salts are given and discussed.



THE ABNORMAL ISSUE OF THE KOENIGS-KNORR

REACTION WITH PERFLUOROALKYLATED ALCOHOLS

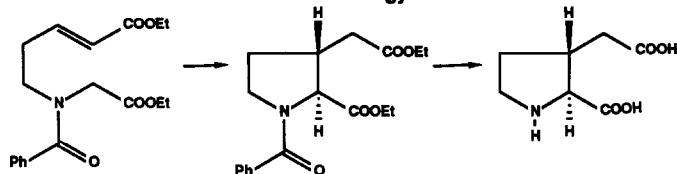
J. Greiner, A. Milius and J.G. Riess, Laboratoire de Chimie Moléculaire, Unité Associée au CNRS, Université de Nice, Parc Valrose, 06034 Nice Cédex, France.



AN EFFICIENT SYNTHESIS OF THE BASIC PYRROLIDINE RING FOR THE KAINOIDS-COMPOUNDS

Tetrahedron Lett. 29, 2195 (1988)

Sung-Eun Yoo*, Sang-Hee Lee, Nak-Jung Kim
Korea Research Institute of Chemical Technology

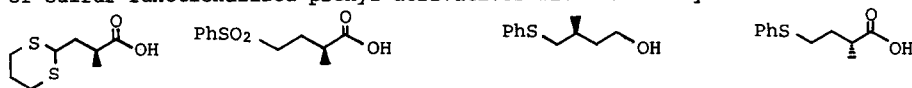


PREPARATION OF CHIRAL C₅-BUILDING BLOCKS FOR TERPENE SYNTHESIS BY BAKERS' YEAST REDUCTION OF SULFUR-FUNCTIONALIZED PRENYL DERIVATIVES

Tetrahedron Lett. 29, 2197 (1988)

Toshio SATO, Kyoko HANAYAMA, and Tamotsu FUJISAWA*
Chemistry Department of Resources, Mie University, Tsu, Mie 514, Japan

Bifunctional chiral (R)- and (S)-C₅-building blocks for terpene synthesis could be prepared by enantioselective hydrogenation of α,β -unsaturated aldehydes and allylic alcohols of sulfur-functionalized prenyl derivatives with bakers' yeast.



REACTIVITY OF ION PAIR AGGREGATES

Tetrahedron Lett. 29, 2201 (1988)

Wang Zongmu, Yang Naifeng* and Shen Yusheng
Department of Chemistry, Jilin University, Changchun, Jilin, China

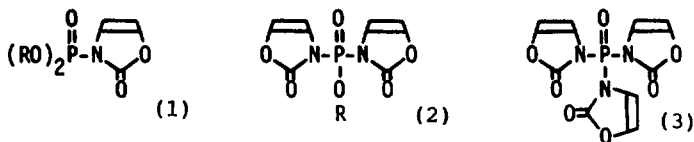
The kinetics of n-propyl iodide with tetrabutylammonium bromide exhibits that the ion pair aggregates are reactive nucleophiles and the reactivity may increase with increase in aggregation number.

HIGHLY EFFICIENT OXAZOLONE-DERIVED REAGENTS FOR BETA-LACTAM FORMATION FROM BETA-AMINO ACIDS

Tetrahedron Lett. 29, 2203 (1988)

T. Kunieda, ^aT. Nagamatsu, ^aT. Higuchi ^b and M. Hirobe ^{*b}
Faculty of Pharmaceutical Sciences, Kumamoto University, ^aKumamoto 862 Japan
Faculty of Pharmaceutical Sciences, University of Tokyo, ^bTokyo 113 Japan

Phosphorus compounds 1-3 activated by 2-oxazolone moiety are highly promising for β -lactam formation from β -amino acids.

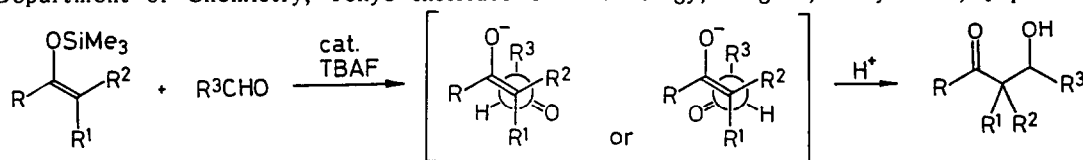


Tetrahedron Lett. 29, 2207 (1988)

STEREOCHEMISTRY OF THE FLUORIDE CATALYZED ALDOL REACTION OF ENOL SILYL ETHERS. EVIDENCE FOR ANOTHER NON-CHELATE TRANSITION STATE

Eiichi Nakamura,* Shigeru Yamago, Daisuke Machii, I. Kuwajima*

Department of Chemistry, Tokyo Institute of Technology, Meguro, Tokyo 152, Japan



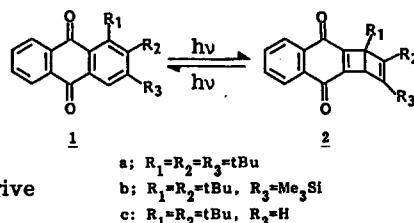
Tetrahedron Lett. 29, 2211 (1988)

NOVEL ANTHRAQUINONE DERIVATIVES UNDERGOING PHOTOCHEMICAL VALENCE ISOMERIZATION

Sadao Miki, Kohji Matsuo, Masahiro Yoshida and Zeni-ichi Yoshida*

Department of Synthetic Chemistry, Kyoto University Yoshida, Kyoto 606 Japan

1,2,3-Tri-*t*-butyl- and 1,2-di-*t*-butyl-3-trimethylsilyl-anthraquinones were synthesized. Upon irradiation, they underwent photochemical valence isomerization to give the corresponding hemi-Dewar anthraquinones. The isomerizations were photochemically reversible.

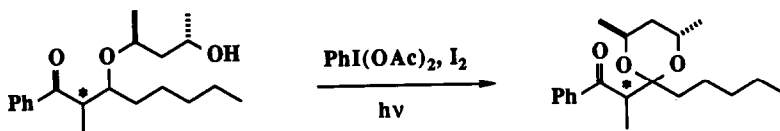


A DIRECT SYNTHESIS OF CYCLIC ACETALS FROM β - OR γ -HYDROXY ETHERS BY MEANS OF C-H ACTIVATION

Tetrahedron Lett. 29, 2215 (1988)

K. Furuta, T. Nagata, and H. Yamamoto*

Department of Applied Chemistry, Nagoya University, Chikusa, Nagoya 464, Japan



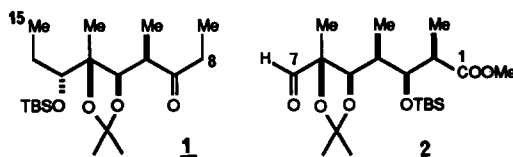
Iodobenzene diacetate oxidation of β - or γ -hydroxy ethers affords cyclic acetals.

A FORMAL TOTAL SYNTHESIS OF ERYTHROMYCIN A. 1. FACILE AND STEREOSELECTIVE SYNTHESIS OF ERYTHRONOLIDE A SEGMENTS BASED ON ACYCLIC STEREOCONTROL

Tetrahedron Lett. 29, 2219 (1988)

T. Nakata,* M. Fukui, and T. Oishi*
RIKEN, Wako-shi, Saitama 351-01, Japan

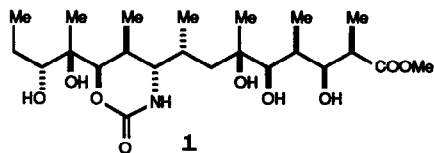
Two segments (+)-**1** and (-)-**2**, corresponding to the C₈-C₁₅ and C₁-C₇ parts of erythronolide A, were synthesized rather in short steps (each 17 steps).



**A FORMAL TOTAL SYNTHESIS OF ERYTHROMYCIN A. 2.
A CONVERGENT SYNTHESIS OF
WOODWARD'S CARBAMATE INTERMEDIATE**

T. Nakata,* M. Fukui, and T. Oishi*
RIKEN, Wako-shi, Saitama 351-01, Japan

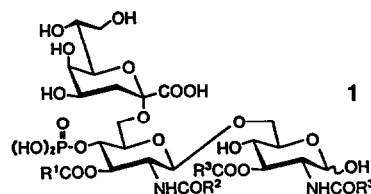
A synthesis of the key intermediate **1**
for Woodward's erythromycin A synthesis
was achieved.



**SYNTHETIC APPROACH TO BACTERIAL LIPOPOLYSACCHARIDE,
PREPARATION OF TRISACCHARIDE PART STRUCTURES CONTAINING
KDO AND 1-DEPHOSPHO LIPID A**

Masahiro Imoto, Naoto Kusunose, Shoichi Kusumoto, and
Tetsuo Shiba,* Department of Chemistry, Faculty of
Science, Osaka University, Toyonaka, Osaka 560, Japan

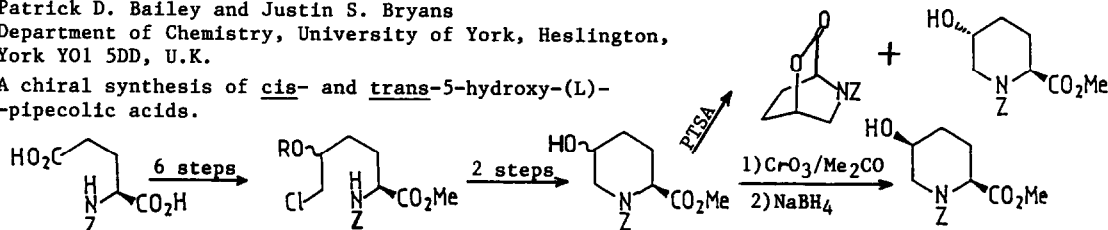
Two phosphorylated trisaccharides (**1**) were synthesized
by condensation of a KDO fluoride with phosphorylated
acyl glucosamine disaccharides followed by deprotection.



**CHIRAL SYNTHESIS OF 5-HYDROXY-(L)-PIPECOLIC ACIDS FROM
(L)-GLUTAMIC ACID**

Patrick D. Bailey and Justin S. Bryans
Department of Chemistry, University of York, Heslington,
York YO1 5DD, U.K.

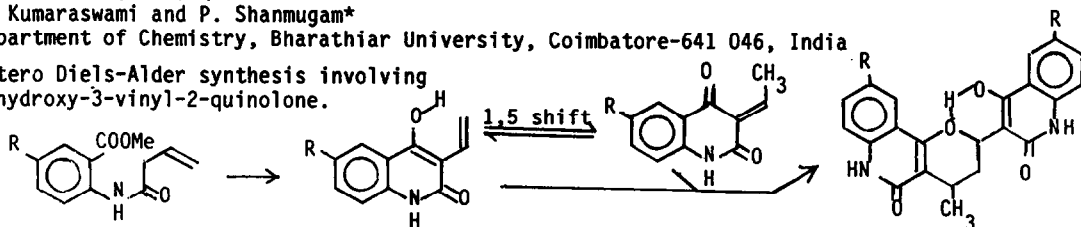
A chiral synthesis of *cis*- and *trans*-5-hydroxy-(L)-
-pipercolic acids.



**SYNTHESIS OF 3, 4-DIHYDRO-4-METHYL-2-(QUINOLIN-3-YL)
2H-PYRANO [3, 2-c] QUINOLINES**

K. Kumaraswami and P. Shanmugam*
Department of Chemistry, Bharathiar University, Coimbatore-641 046, India

Hetero Diels-Alder synthesis involving
4-hydroxy-3-vinyl-2-quinolone.



HIGHLY DIASTEREOSELECTIVE SYNTHESIS OF (E)-1-TRIMETHYLSILYL-1-EN-3-YNES, (1E,3Z)- AND (1E,3E)-1-TRIMETHYLSILYL-1,3-DIENES

Bianca Patrizia Andreini, Adriano Carpita, and Renzo Rossi^(x)

Dipartimento di Chimica e Chimica Industriale, Università di Pisa, via Risorgimento 35, 56100 Pisa, Italy.

Compounds 4, 5 and 6 have been diastereoselectively synthesised starting from (E)/(Z)-7.

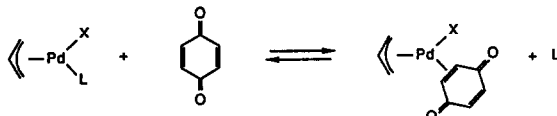


EVIDENCE FOR (π -ALLYL)PALLADIUM(II)QUINONE COMPLEXES IN THE PALLADIUM-CATALYZED 1,4-DIACETOXYLATION OF CONJUGATED DIENES

Jan-E. Bäckvall* and Adolf Gogoll

Department of Organic Chemistry, University of Uppsala, Box 531, 751 21 Uppsala, Sweden

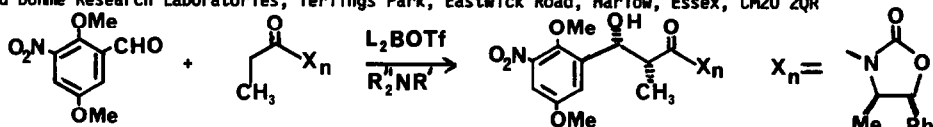
The intermediate (π -allyl)palladium(benzoquinone) complexes previously postulated in palladium-catalyzed 1,4-oxidations of 1,3-dienes were detected by NMR spectroscopy.



THE STEREOSELECTIVITY OF DIRECTED ALDOL REACTIONS WITH 3-NITRO-2-METHOXYBENZALDEHYDES IS AFFECTED BY THE AMINE EMPLOYED AS BASE.

Raymond Baker, Jose L. Castro and Christopher J. Swain

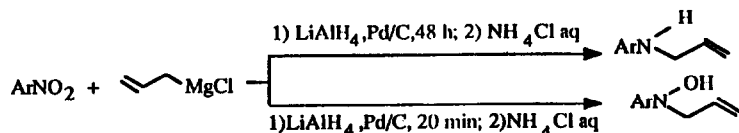
Merck Sharp and Dohme Research Laboratories, Terlings Park, Eastwick Road, Harlow, Essex, CM20 2QR



Reactions of 3-nitro-2,5-dimethoxybenzaldehyde with a chiral propionyl oxazolidone yields erythro product selectively in presence of Et₃N but not *i*-Pr₂NEt.

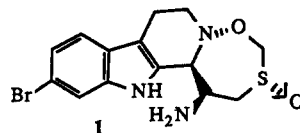
UNEXPECTED REACTIVITY OF ALLYL MAGNESIUM CHLORIDE WITH NITROARENES. A GENERAL METHOD OF SYNTHESIS OF N-ALLYL-N-ARYLHYDROXYLAMINES AND N-ALLYLANILINES

Giuseppe Bartoli^{a*}, Enrico Marcantoni^a, Marcella Bosco^b, Renato Dalpozzo^b a. Dipartimento Scienze Chimiche, via S. Agostino 1, 62032 Camerino, Italy b. Dipartimento di Chimica Organica, viale Risorgimento 4, 40136 Bologna, Italy



EUDISTOMIN K SULFOXIDE, AN ANTIVIRAL SULFOXIDE FROM THE NEW ZEALAND ASCIDIAN *RITTERELLA SIGILLINOIDES*Robin J Lake¹, Michelle M Brennan¹, John W Blunt¹, Murray H G Munro¹
and Lewis K Pannell²¹Department of Chemistry, University of Canterbury, Christchurch, New Zealand²National Institute of Diabetes, Digestive and Kidney Diseases, NIH, Bethesda, MD, USA

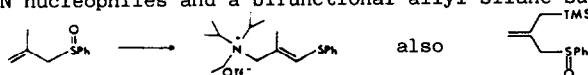
The antiviral compound eudistomin K sulfoxide (**1**) has been isolated from the New Zealand ascidian *Ritterella sigillinoides* (Brewin, 1958). This sulfoxide has also been synthesised by oxidation of eudistomin K.

**THE SCOPE OF A NEW MASKED MICHAEL REACTION INVOLVING A PUMMERER INTERMEDIATE.**

Roger Hunter* and Clive D. Simon.

Department of Chemistry, University of the Witwatersrand, 1 Jan Smuts Avenue, Johannesburg, 2001, South Africa.

Summary : Hünigs base has been found to intercept Pummerer generated vinylthionium ions intermolecularly. The scope of this novel masked Michael reaction has been extended to C and N nucleophiles and a bifunctional allyl silane-sulphoxide reagent.

**SILICA GEL FUNCTIONALIZED WITH AMINO GROUPS AS A NEW CATALYST FOR KNOEVENAGEL CONDENSATION UNDER HETEROGENEOUS CATALYSIS CONDITIONS.**

Enrico Angeletti, Carlo Canepa, Giovanni Martinetti, and Paolo Venturello*
Istituto di Chimica Organica dell'Università, Via Bidone 36, 10125 Torino, ITALY
Knoevenagel condensation was carried out in continuous flow conditions.

