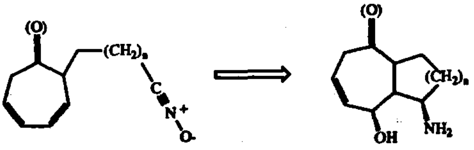
Tetrahedron Lett. **1993**, *34*, 3017

INTRAMOLECULAR NITRILE OXIDE CYCLOADDITION IN THE DIHYDROTROPONE SERIES. A RAPID ENTRY INTO THE BICYCLO[5.3.0]DECANE AND BICYCLO[5.4.0]UNDECANE RING SYSTEMS.

James H. Rigby* and Timothy W. McGuire
Department of Chemistry, Wayne State University
Detroit, Michigan 48202

Functionalized hydroazulene and bicyclo[5.4.0]undecane ring systems are constructed via an intramolecular nitrile oxide cycloaddition.

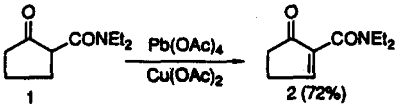


Tetrahedron Lett. **1993**, *34*, 3021

DEHYDROGENATIONS WITH LEAD TETRAACETATE. KETONE TO ENONE TRANSFORMATIONS IN THE 2-(AMINOCARBONYL)- AND 2-(CARBALKOXY)CYCLOALKANONE SERIES.

Arthur G. Schultz* and Mark A. Holoboski. Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180-3590

Cyclic β-ketoesters and β-ketoamides are converted to 2-(carbalkoxy)- and 2-(aminocarbonyl)-2-cycloalken-1-ones by treatment with $Pb(OAc)_4$ and $Cu(OAc)_2$ in benzene; e.g. 1 → 2.

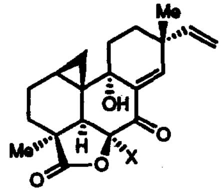


Tetrahedron Lett. **1993**, *34*, 3025

ON THE MODE OF ACTION OF MYROCIN C: EVIDENCE FOR A CC-1065 CONNECTION

Margaret Y. Chu-Moyer and Samuel J. Danishefsky*
Department of Chemistry, Yale University, New Haven, CT 06511-8118, U. S. A.

The addition of thiophenol to 6-desoxymyrocin C and myrocin C affords mono- and diaddition products, respectively. The implications of these results on the bioactivation mechanism are discussed.



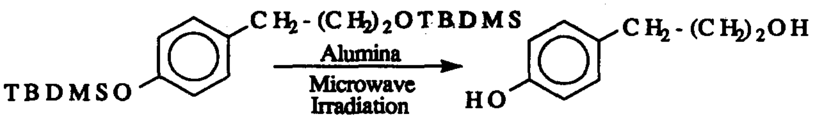
X = OH myrocin C
X = H 6-desoxymyrocin C

Tetrahedron Lett. **1993**, *34*, 3029

ALUMINA-MEDIATED CLEAVAGE OF t-BUTYLDIMETHYLSILYL ETHERS.

Rajender S. Varma,* Jagannath B. Lamture, and Manju Varma, The Center for Biotechnology, Baylor College of Medicine, 4000 Research Forest Drive, The Woodlands, TX 77381, U. S. A.

A facile method for the cleavage of t-Butyldimethylsilyl ethers is described which occurs on alumina surface under solvent-free conditions within 10-15 minutes. Mild heating using microwave oven facilitates the procedure which is applicable to phenolic and alcoholic groups.



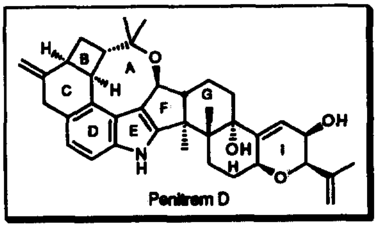
AN END-GAME STRATEGY FOR CONSTRUCTION OF THE G-H-I RINGS OF PENITREM D, A TREMORGENIC INDOLE ALKALOID

Tetrahedron Lett. **1993**, *34*, 3033

Amos B. Smith, III,* Mitsuaki Ohta, William M. Clark, and James W. Leahy

Department of Chemistry, the Laboratory for Research on the Structure of Matter, and the Monell Chemical Senses Center, University of Pennsylvania, Philadelphia, Pennsylvania 19104, U. S. A.

A synthetic approach to the G-H-I ring system of penitrem D has been developed in a model study. The requisite carbon framework was generated using the Stork protocol to couple a scalemic metalloenamine with an epoxide derived from D-glyceraldehyde. Pyran ring formation was then effected via $BF_3 \cdot OEt_2$-promoted cyclization of a δ-hydroxy allylic acetate.

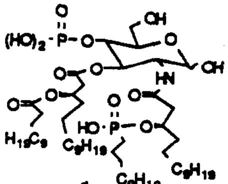


SYNTHESIS OF PHOSPHONATE ANALOGS OF LIPID X.

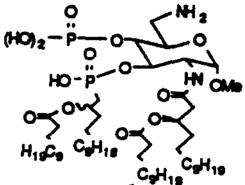
Tetrahedron Lett. **1993**, *34*, 3037

K. Balreddy*, L. Dong, D. M. Simpson and
R. Titmas. IGEN Inc, 1530 East Jefferson Street,
Rockville, MD 20852.

Synthesesof novel phosphonate analogs 1 and 2 are described starting from tri-O-acetyl-D-glucal and D-glucosamine hydrochloride respectively.



1



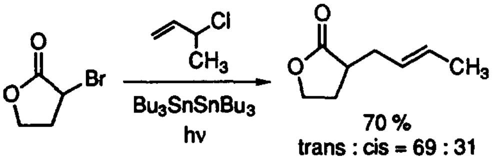
2

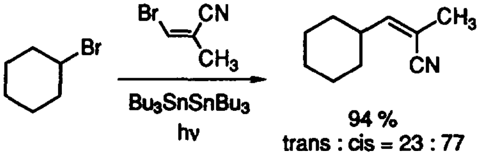
DIRECT FREE-RADICAL SUBSTITUTIONS ON ALLYL AND VINYL HALIDES USING ALKYL HALIDES/HEXABUTYLDITIN

Tetrahedron Lett. **1993**, *34*, 3041

Chad C. Huval and Daniel A. Singleton*, Department of Chemistry, Texas A & M University, College Station, TX 77843-3255 USA

Allyl- and vinylhalides are excellent acceptors for tin-mediated substitutions by alkyl radicals generated from alkyl halides.



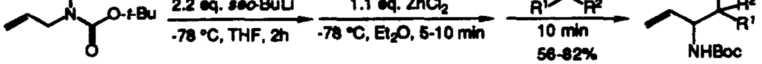


AN α-METALLOAMINE SYNTHETIC EQUIVALENT FROM N-BOC-ALLYLAMINE

Tetrahedron Lett. **1993**, *34*, 3043

James E. Resek and Peter Beak*, Department of Chemistry, University of Illinois, Urbana-Champaign, Urbana, IL 61801 USA

Dilithiation of N-Boc-allylamine with *sec*-BuLi, followed by treatment with $ZnCl_2$ provides a reagent that reacts readily with aldehydes and ketones at the α-position to give N-Boc-2-amino-3-buten-1-ol derivatives.

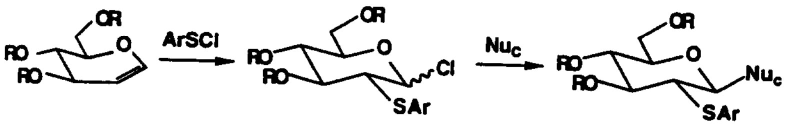


ArSCl Adducts of Glucal Derivatives in the Preparation of C-Glucosides

Tetrahedron Lett. **1993**, *34*, 3047

Irina P. Smolyakova*, William A. Smit, Elena A. Zal'chenko, Oleg S. Chizhov, A. S. Shashkov.
Zelinsky Institute of Organic Chemistry, Russian Academy of Science, pr. Lenina, 47, Moscow, Russia
R. Caple*, S. Sharpe, C. Kuehl. Chemistry Dept., University of Minnesota-Duluth, Duluth, MN 55812, USA

ArSCl adducts of glucal derivatives react with different carbon nucleophiles leading preferentially to the formation of β-C-glucosides.

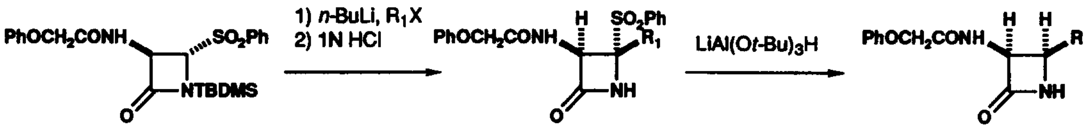


Stereoselective Synthesis of Cis-Substituted Azetidinones from Penicillin: a Formal Total Synthesis of Loracarbef.

Tetrahedron Lett. **1993**, *34*, 3051

Jack B. Deeter, David A. Hall, Christopher L. Jordan, Richard M. Justice, Michael D. Kinnick, John M. Morin, Jr.,* Jonathan W. Paschal, Robert J. Ternansky* Lilly Research Laboratories, Eli Lilly and Co., Lilly Corporate Center, Indianapolis, IN 46285

Stereoselective alkylation-reduction of silylated 4-phenylsulfonyl azetidinones affords cis-alkyl azetidinones.

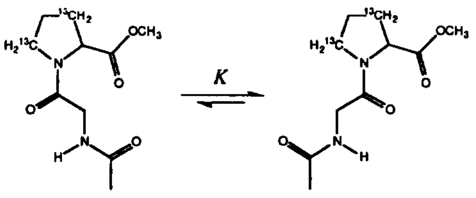


THERMODYNAMIC ORIGIN OF PROLYL PEPTIDE BOND ISOMERS

Tetrahedron Lett. **1993**, *34*, 3055

Eric S. Eberhardt, Stewart N. Loh, and Ronald T. Raines*
Department of Biochemistry
University of Wisconsin–Madison
Madison, WI 53706-1569 USA

Van't Hoff analysis indicates that the preference for the *trans* (Z) isomer of the prolyl peptide bond of 1 arises almost entirely from enthalpy in aqueous buffer and in toluene.



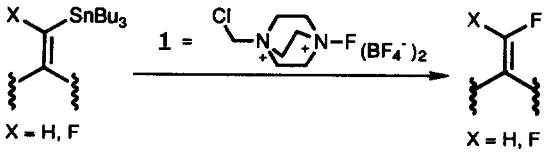
1 (*cis* isomer)

1 (*trans* isomer)

A NEW METHOD FOR THE ELECTROPHILIC FLUORINATION OF VINYL STANNANES.

Tetrahedron Lett. **1993**, *34*, 3057

Donald P. Matthews, Shawn C. Miller, Esa T. Jarvi, Jeffrey S. Sabol and James R. McCarthy,* Marion Merrell Dow Research Institute, 2110 E. Galbraith Road Cincinnati, Ohio 45215



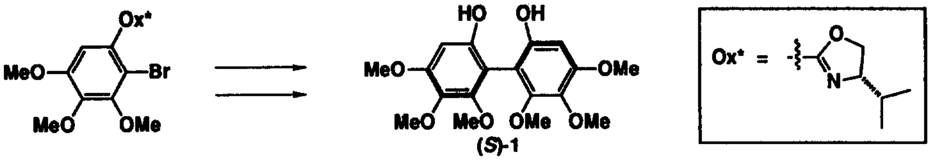
The electrophilic fluorination of vinyl stannanes with 1 affords fluoro olefins.

Tetrahedron Lett. **1993**, *34*, 3061

The Synthesis of a Useful Chiral Biaryl Catalyst. An Oxazoline-Mediated Ullmann Reaction.

Todd D. Nelson and A. I. Meyers,* Department of Chemistry, Colorado State University, Fort Collins, CO 80523 U.S.A.

A rapid synthesis of an enantiomerically pure biaryl catalyst (*S*)-1 was accomplished by a stereoselective Ullmann reaction.

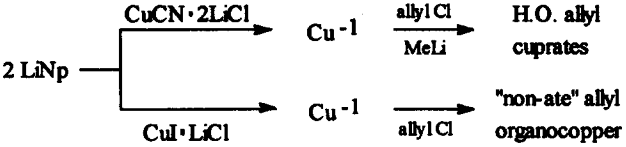


(*S*)-1

Tetrahedron Lett. **1993**, *34*, 3063

Preparation of Higher Order Cyano and "Non-Ate" Allyl Copper Reagents from the Reaction of Allyl Chlorides with a Formal Copper Anion Douglas E. Stack, Walter R. Klein and Reuben D. Rieke, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, Nebraska 68588-0304

Higher order and "non-ate" allyl copper reagents have been prepared utilizing a copper anion solution. These reagents undergo substitution, epoxide opening and 1,4-conjugate addition reactions.

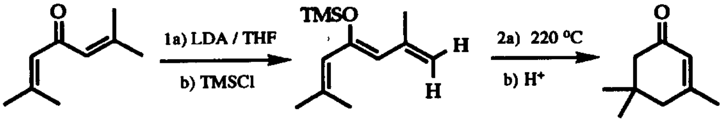


Tetrahedron Lett. **1993**, *34*, 3067

Thermal Conversion of Phorone into Isophorone via (Trimethylsilyl)oxyhexatriene (SOH) Cyclization

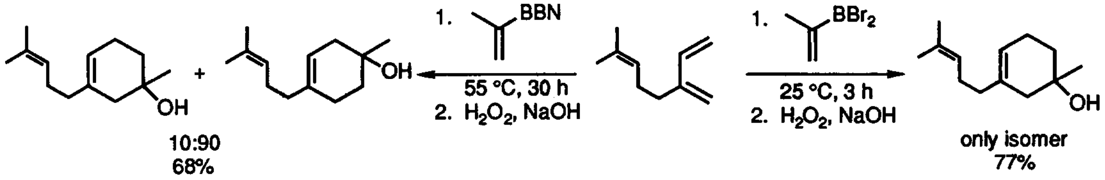
Daniel S. Torok and William J. Scott*
Department of Chemistry, The University of Iowa, Iowa City, IA 52242, USA

Heating of (3Z)-4-(trimethylsilyl)oxy-2,6-dimethylhepta-1,3,5-triene, readily available from phorone (LDA, THF; TMSCl) at 220 °C caused isomerization and cyclization to afford isophorone after deprotection.



Tetrahedron Lett. **1993**, *34*, 3071

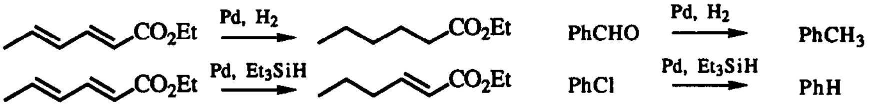
DIELS-ALDER REACTIONS OF 2-ALKENYLBORANES AND *CIS*-1-ALKENYLBORANES. ANOMALOUS SELECTIVITY THAT ALLOWS A CHOICE OF REGIOCHEMISTRY. Daniel A. Singleton,* Kyeongsook Kim, and Jose P. Martinez, Department of Chemistry, Texas A&M University, College Station, Texas 77843 USA



Tetrahedron Lett. **1993**, *34*, 3075

COLLOIDAL PALLADIUM, EASILY FORMED IN ORGANIC SOLVENTS, IS A HIGHLY ACTIVE AND STABLE CATALYST FOR SELECTIVE HYDROGENATIONS AND DEHYDROHALOGENATIONS.

Lissa A. Fowley, Demetrius Michos, Xiao-Liang Luo, and Robert H. Crabtree.*
Yale Chemistry Dept., 225 Prospect St., New Haven CT 06511.

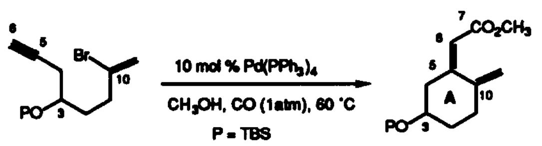


Tetrahedron Lett. **1993**, *34*, 3079

Convergent Approaches to the Vitamin D Skeleton Using a Transition Metal Catalyzed Carbometalation/Capture Strategy

John M. Nuss*, Martin M. Murphy, Roger A. Rennels, Magid M. Heravi and Brent J. Mohr
Department of Chemistry, University of California, Riverside, CA 92521

An intramolecular transition metal catalyzed carbometalation/capture sequence permits the stereoselective construction of the (bis)exocyclic dienyl subunit critical to the synthesis of Vitamin D and structural analogues.

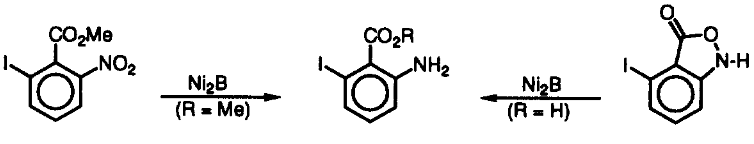


Tetrahedron Lett. **1993**, *34*, 3083

Nickel Boride Reduction of Aryl Nitro Compounds

Herbert H. Seltzman* and Bertold D. Berrang
Research Triangle Institute, Research Triangle Park, NC 27709

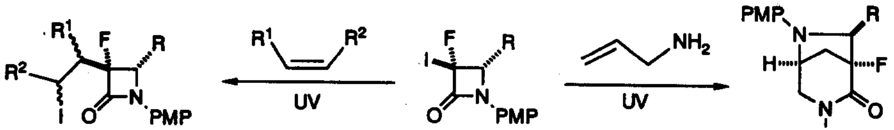
Selective reduction of nitroaromatics to the corresponding anilines in the presence of complicating iodo or o-carboalkoxy groups is achieved with nickel boride without deiodination or termination at benzisoxazoles.



Tetrahedron Lett. **1993**, *34*, 3087

FREE RADICAL CHAIN REACTIONS OF 3-FLUORO-3-IODO-β-LACTAMS.

Robert Kawecki and John T. Welch*,
Department of Chemistry, University at Albany, State University of New York, Albany, NY 12222, USA

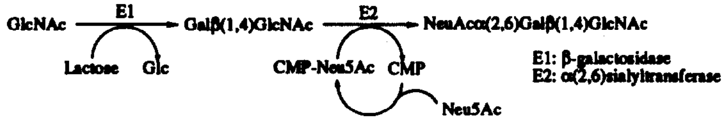


The iodine atom transfer addition reaction of 3-fluoro-3-iodo-β-lactams under photolytic conditions is described.

Tetrahedron Lett. **1993**, *34*, 3091

A New Multi-Enzyme System for a One-Pot Synthesis of Sialyl Oligosaccharides: Combined Use of β-Galactosidase and α(2,6)-Sialyltransferase Coupled with Regeneration *in situ* of CMP-Sialic acid.

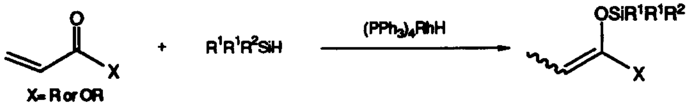
Herrmann, G.F.;[1,2] Ichikawa, Y.;[1] Wandrey, C.;[2] Gaeta, F.C.A.;[3] Paulson, J.C.;[1,3] Wong, C.-H.[1]*
[1] Department of Chemistry, The Scripps Research Institute, 10666 N. Torrey Pines Rd.,La Jolla, CA 92037. [2] Research Center Jülich, Institute of Biotechnology 2, P.O. Box 1913, D-5170 Jülich, Germany. [3] Cytel Corporation, 3525 John Hopkins Court, San Diego, CA 92121



Tetrahedron Lett. **1993**, *34*, 3095

HYDRIDOTETRAKIS(TRIPHENYLPHOSPHINE)RHODIUM(I) AS AN EFFECTIVE CATALYST FOR THE REGIOSPECIFIC HYDROSILATION OF α,β-UNSATURATED CARBONYL COMPOUNDS

T. H. Chan and G. Z. Zheng, Department of Chemistry, McGill University,
801 Sherbrooke Street West, Montreal, Quebec, Canada, H3A 2K6



Tetrahedron Lett. **1993**, *34*, 3099

9-BORABICYCLO[3.3.1]NONANE INDUCED FRAGMENTATION OF 2-AZANORBORNENES: A FORMAL BORA-AZA RETRO ENE REACTION

Micheal D. Gaul, Kerry W. Fowler[†1] and Paul A. Grieco*
Department of Chemistry, Indiana University
Bloomington, Indiana 47405
[†] G.D. Searle, Research and Development,
Skokie, Illinois 60077

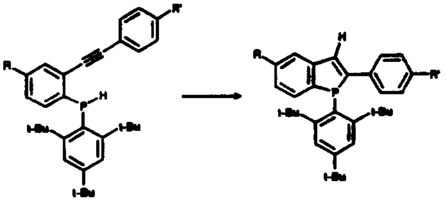
1

3

Tetrahedron Lett. **1993**, *34*, 3103

Phosphindole
Eine allgemeine, einfache Synthese

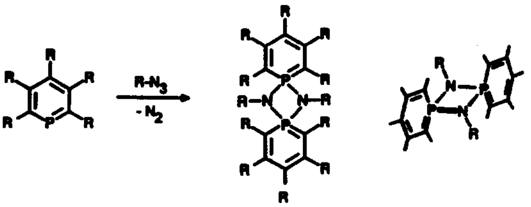
G. Märkl, G.Y. Jin, K.-P. Berr
Institut für Organische Chemie der Universität Regensburg,
Universitätsstr. 31, D-8400 Regensburg



Tetrahedron Lett. **1993**, *34*, 3107

Diaza-λ^5, λ^5-diphospha-dispiro-[5.1.5.1]-tetradecahexaene Cyclodiphosphazane mit spiroanellierten λ^5, λ^5-Phosphininen

G. Märkl*, H. Sommer
Institut für Organische Chemie der Universität,
Universitätsstr. 31, D-8400 Regensburg
H. Nöth
Institut für Anorganische Chemie der Universität,
Meiserstr. 1, D-8000 München 2

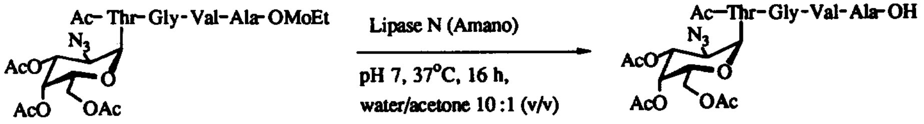


Tetrahedron Lett. **1993**, *34*, 3111

Enzymatische Hydrolyse hydrophiler Ester durch Lipasen - eine milde Carboxydeblockierung von Peptiden und Glycopeptiden.

Günther Braum, Peter Braun, Danuta Kowalczyk und Horst Kunz*, Institut für Organische Chemie, Universität Mainz, Becherweg 18-20, D-(W)-6500 Mainz, Germany.

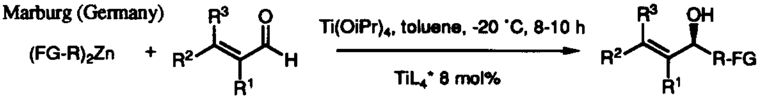
Hydrophilic 2-(N-morpholino)ethyl (MoEt) esters of peptides and glycopeptides are hydrolyzed by lipases in water/acetone at pH 7.



Tetrahedron Lett. **1993**, *34*, 3115

Enantioselective Preparation of Polyfunctional Secondary Allylic Alcohols Using Functionalized Dialkylzincs Prepared by a Copper(I) Catalyzed Iodine-Zinc Exchange Reaction.

Michael J. Rozema, Christina Eisenberg, Henning Lütjens, Roswitha Ostwald, Kevin Belyk and Paul Knochel *, Fachbereich Chemie der Philipps-Universität Marburg, Hans-Meerwein-Straße, W-3550 Marburg (Germany)



(56-95%; 30-98%ee)

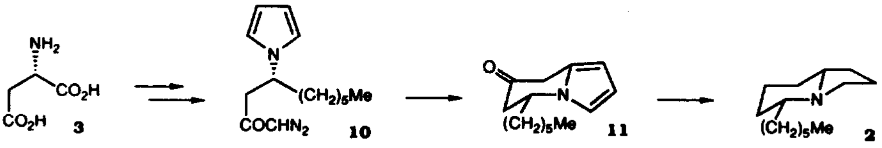
FG = Cl, RCOO, Bn(Tf)N

Tetrahedron Lett. **1993**, *34*, 3119

ENANTIOSPECIFIC SYNTHESES OF INDOLIZIDINES 167B AND 209D.

Charles W. Jefford* and Jian Bo Wang
Department of Organic Chemistry, University of Geneva, 1211 Geneva 4, Switzerland

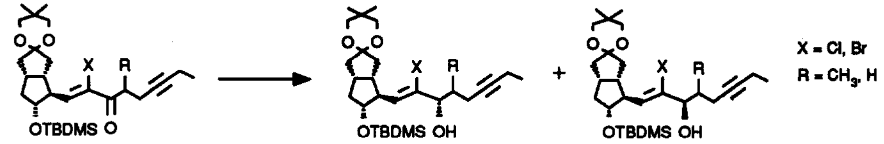
L-Aspartic acid (**3**) was converted to the α-diazo-keto pyrrole **10** which on catalyzed cyclization to **11**, and hydrogenation gave indolizidine 209D (**2**). A similar sequence gave 167B.



Tetrahedron Lett. **1993**, *34*, 3123

HIGHLY STEREOSELECTIVE 15-KETOREDUCTION OF HALOGENATED CARBACYCLIN-PRECURSORS

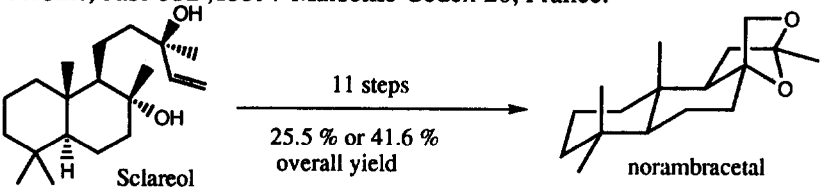
Michael Harre*, Klaus Nickisch and Jürgen Westermann
Chemical and Microbiological Development and Production
Schering AG, D-1000 Berlin 65



Tetrahedron Lett. **1993**, *34*, 3127

Synthesis of Norambracetal:A New Ambergris Derivative

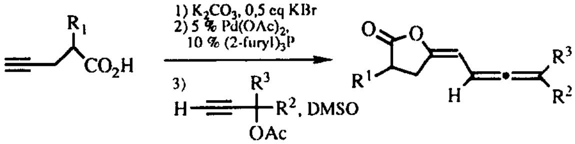
Paul Martres, Patricia Perfetti, Jean Pierre Zahra, Bernard Waegell,
Laboratoire de stéréochimie associé au CNRS LASCO , Faculté des
Sciences de St Jérôme,Case 532 ,13397 Marseille Cedex 20, France.



Tetrahedron Lett. **1993**, *34*, 3129

PALLADIUM-CATALYZED SYNTHESIS OF NEW UNSATURATED EXO-ENOL LACTONES WITH POTENTIAL BIOLOGICAL ACTIVITY.

Didier Bouyssi[a] , Jacques Gore[a] , Geneviève Balme[a] , Dominique Louis[b] and Jean Wallach[b] ,
[a]Laboratoire de Chimie Organique 1, associé au CNRS ; [b]Laboratoire de Biochimie Analytique,
Université Claude Bernard, 43 Bd du 11 Novembre 1918, 69622 Villeurbanne Cédex, France.



Various allenenols lactones have been synthesized by reacting 4-pentynoic acid and 2-alkynyl acetate in dimethyl sulfoxide in the presence of K_2CO_3, $Pd(OAc)_2$ as the catalyst and tri(2-furyl)phosphine as the ligand. The biological activity of these compounds as protease inhibitors has been proven.

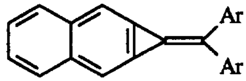
Tetrahedron Lett. **1993**, *34*, 3131

CYCLOADDITION REACTIONS OF DIARYLALKYLIDENECYCLOPROPARENES

Aileen T. McNichols,[a] Peter J. Stang,[a]* Brian Halton,[b]* Andrew J. Kay[b]

[a] Department of Chemistry, University of Utah, Salt Lake City, Utah 84112 USA
[b] Department of Chemistry, Victoria University of Wellington, Wellington, New Zealand

The reactions of diarylalkylidenecycloproparenes in [2+4] and [2+2] cycloadditions are described.



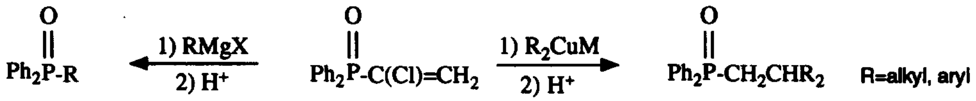
Tetrahedron Lett. **1993**, *34*, 3135

REACTIONS OF (1-CHLOROVINYL)DIPHENYLPHOSPHINE OXIDE WITH ORGANOMETALLIC REAGENTS

Cosimo Cardellicchio, Vito Fiandanese, Francesco Naso*, K. Michal Pietrusiewicz*, and Witold Wisniewski

C.N.R., Centro Metodologie Innovative di Sintesi Organiche, Dipartimento di Chimica, via Amendola 173, 70126 Bari, Italy
Polish Academy of Science, Centre of Molecular and Macromolecular Studies, 90-363 Lodz, Sienkiewicza 112, Poland

Different products were obtained in the reactions of chlorovinylphosphine oxide with different organometallic compounds.



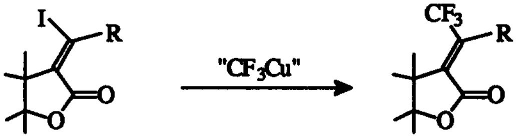
$$\mathrm{Ph_2}\overset{\overset{\displaystyle O}{\|}}{\mathrm{P}}\mathrm{\text{-}R} \xleftarrow[2)\ H^+]{1)\ RMgX} \mathrm{Ph_2}\overset{\overset{\displaystyle O}{\|}}{\mathrm{P}}\mathrm{\text{-}C(Cl){=}CH_2} \xrightarrow[2)\ H^+]{1)\ R_2CuM} \mathrm{Ph_2}\overset{\overset{\displaystyle O}{\|}}{\mathrm{P}}\mathrm{\text{-}CH_2CHR_2} \quad \text{R=alkyl, aryl}$$

Tetrahedron Lett. **1993**, *34*, 3139

α-TRIFLUOROMETHYLMETHYLENE AND α-TRIFLUOROMETHYLETHYLIDENE γ-BUTYROLACTONES

Simon D. Mawson and Rex T. Weavers
Department of Chemistry, University of Otago, Box 56, Dunedin, New Zealand.

Iodoalkylidene lactones are converted into trifluoromethylalkylidene lactones by reaction with a "CF_3Cu" reagent. Reaction proceeds with retention of configuration.



Tetrahedron Lett. **1993**, *34*, 3141

ON THE REACTION OF SILYLPEROXIDES WITH CARBANIONS

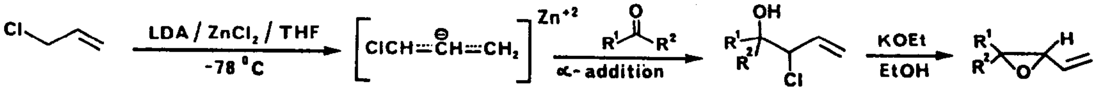
Saverio Florio*[a] and Luigino Troisi[b]
a) Dipartimento Farmaco-Chimico, Facoltà di Farmacia, Università di Bari, 70126 Bari, Italy.
b) Dipartimento di Biologia, Università di Lecce, 73100 Lecce, Italy.

$$\mathrm{RLi} + \mathrm{(R'_3SiO)_2} \longrightarrow \mathrm{RSiR'_3} + \mathrm{ROSiR'_3} + \mathrm{R\text{-}R'}$$

Tetrahedron Lett. **1993**, *34*, 3145

CHLOROALLYL ANION : HIGHLY REGIO- AND DIASTEREOSELECTIVE α-ADDITION OF CHLOROALLYL ZINC REAGENT TO CARBONYL COMPOUNDS

K. Mallaiah, J. Satyanarayana, H. Ila* and H. Junjappa*
Dept of Chemistry, North Eastern Hill University, Shillong, India



$R^1 = Ar$; $R^2 = H$; $R^1 = R^2 =$ alkyl,aryl,$-(CH_2)_5$

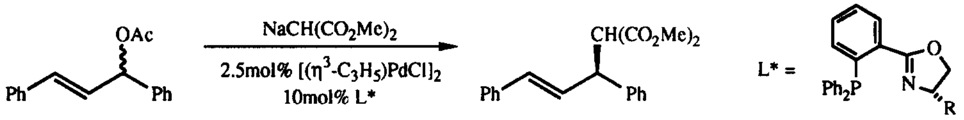
The chloroallyl zinc reagent undergoes highly regio- and diastereoselective α-addition to carbonyl compounds to give *syn* chlorohydrines.

Tetrahedron Lett. **1993**, *34*, 3149

ASYMMETRIC PALLADIUM CATALYSED ALLYLIC SUBSTITUTION USING PHOSPHORUS CONTAINING OXAZOLINE LIGANDS

Graham J. Dawson,[a] Christopher G. Frost,[a] Jonathan M. J. Williams*[a] and Steven J. Coote[b]
[a] Department of Chemistry, Loughborough University of Technology, Loughborough, Leicestershire, LE11 3TU, UK.
[b] Glaxo Group Research Ltd., Ware, Herts, SG10 0DJ, UK.

Palladium catalysed allylic substitution has been achieved with 90 - 94% ee using phosphorus containing oxazoline ligands

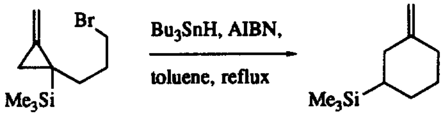


Tetrahedron Lett. **1993**, *34*, 3151

RADICAL CYCLISATIONS OF METHYLENECYCLOPROPANE DERIVATIVES

Christine Destabel,[a] Jeremy D Kilburn[a]* and John Knight[b]
a Department of Chemistry, University of Southampton, Southampton, SO9 5NH, UK
b Glaxo Group Research Limited, Park Road, Ware, Hertfordshire, SG12 0DP, UK

Methylenecyclopropyl propyl radicals undergo selective 5-*exo* cyclisation to give methylenecyclohexanes, while methylenecyclopropyl butyl radicals give a mixture of products

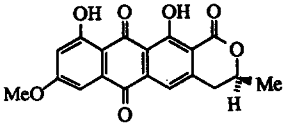


Tetrahedron Lett. **1993**, *34*, 3155

SYNTHESIS OF (*S*)-(-)-AUSTROCORTICIN AND (*S*)-(+)-DERMOLACTONE: ABSOLUTE STEREOCHEMISTRY OF THE NATURAL PRODUCTS.

Ann S. Cotterill and Melvyn Gill, School of Chemistry, University of Melbourne, Parkville, Vic, 3052, Australia.

The homochiral anthraquinones 2 and 9 are made from novel chiral butadienes, thus establishing the absolute configuration of the natural products (+)-austrocorticin and (+)-dermolactone.



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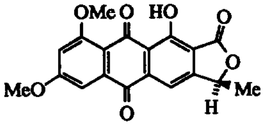

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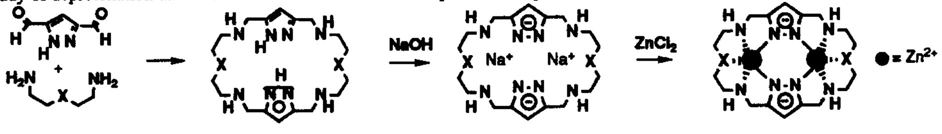
Tetrahedron Lett. **1993**, *34*, 3159

NEW MACROCYCLIC POLYAMINES OF 3,5-DISUBSTITUTED 1H-PYRAZOLE. A ^{13}C NMR STUDY OF DEPROTONATION AND FORMATION OF Zn^{2+} DINUCLEAR COMPLEXES.

M. Kumar, V.J. Arán and P. Navarro*.
Instituto de Química Médica, CSIC, Juan de la Cierva 3, 28006 Madrid, Spain.

The synthesis of new 26 membered macrocyclic polyamines of 3,5-disubstituted 1H-pyrazole (X=O, NH) from 3,5-(1H-pyrazole)dicarbaldehyde, and a ^{13}C NMR study of deprotonation and formation of Zn^{2+} dinuclear complexes are reported.



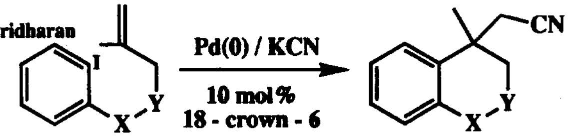
Tetrahedron Lett. **1993**, *34*, 3163

PALLADIUM CATALYSED CASCADE CYCLISATION - CYANIDE ION CAPTURE.

Ronald Grigg,* Vijayaratnam Santhakumar and Visuvanathar Sridharan

School of Chemistry, Leeds University, Leeds LS2 9JT

Pd catalysed 5 - exo - and 6 - exo - trig cyclisation of aryl - and vinyl - halides with cyanide ion capture occurs in good yield.



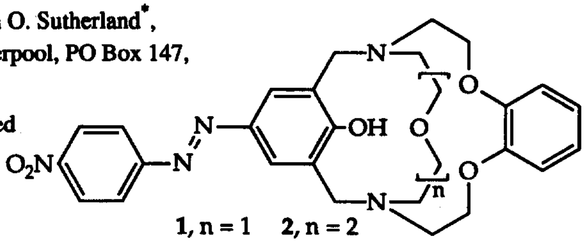
$X = O, Y = CH_2$
$X = CH_2, Y = O$
$X = CO, Y = NCH_2Ph.$

Tetrahedron Lett. **1993**, *34*, 3165

CHROMOIONOPHORES WITH HIGH LITHIUM AND SODIUM SELECTIVITY

K. R. A. Samankumara Sandanayake and Ian O. Sutherland*,
Department of Chemistry, University of Liverpool, PO Box 147,
Liverpool L69 3BX, England

The phenolic cryptands 1 and 2, each prepared in two steps from a diaza-crown ether, show very high selectivity for forming complexes with Li^+ and Na^+ respectively.



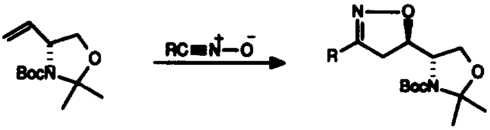
1, n = 1   2, n = 2

Tetrahedron Lett. **1993**, *34*, 3169

STEREOSELECTIVE CYCLOADDITION OF NITRILE OXIDES TO 4-VINYL-OXAZOLINES AND -OXAZOLIDINES

Ewan C. Boyd and R. Michael Paton
Department of Chemistry, The University of Edinburgh,
West Mains Road, Edinburgh, EH9 3JJ, UK

Nitrile oxides undergo regiospecific and diastereoselective cycloaddition to 4-vinyloxazolidines, *eg* 2, to afford *erythro* adduct 9 as the major product.

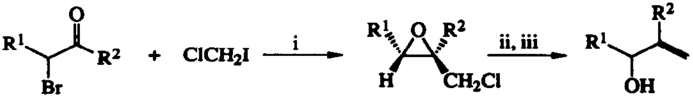


2   9

Tetrahedron Lett. **1993**, *34*, 3173

PREPARATION OF DISUBSTITUTED EPICHLOROHYDRINS WITH TOTAL DIASTEREOSELECTIVITY. TRANSFORMATION OF α-BROMOCARBONYL COMPOUNDS INTO ALLYL ALCOHOLS.

José Barluenga*, Luján Llavona, Pablo L. Bernad, and José M. Concellón.
Departamento de Química Organometálica, Facultad de Química, Universidad de Oviedo, 33071 Oviedo, Spain



1   3   4

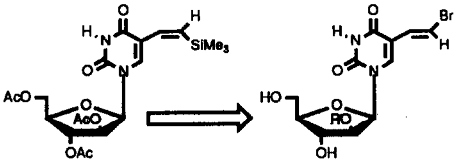
Reagents: i, MeLi -78 to 20°C; ii, LiI, 20 to 60°C or Li, -78 to 20°C; iii, hydrolysis.

Tetrahedron Lett. **1993**, *34*, 3177

FACILE ACCESS TO 2'-O-ACYL PRODRUGS OF 1-(β-D-ARABINOFURANOSYL)-5(*E*)-(2-BROMOVINYL) URACIL (BVARAU) VIA REGIOSELECTIVE ESTERASE-CATALYZED HYDROLYSIS OF 2',3',5'-TRIESTERS

Pier G. Baraldi, Rita Bazzanini, Stefano Manfredini*, Daniele Simoni and Morris J. Robins#

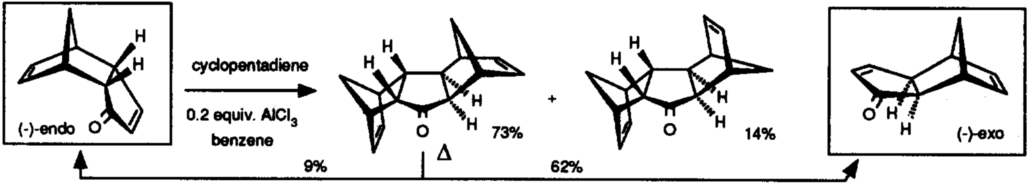
Dipartimento di Scienze Farmaceutiche, Università di Ferrara, Via Fossato di Mortara 17-19, I-44100 Ferrara, Italy
 # Department of Chemistry, Brigham Young University, Provo, UT 84602, USA



Tetrahedron Lett. **1993**, *34*, 3181

A TWO-STEP CHIRALITY TRANSFER FROM (-)-*ENDO*- TO (-)-*EXO*-TRICYCLO[5.2.1.0^{2,6}]DECA-4,8-DIEN-3-ONE

P.P.M.A. Dols, A.J.H. Klunder, B. Zwanenburg*, Department of Organic Chemistry, NSR Center for Molecular Structure, Design and Synthesis, University of Nijmegen, Toernooiveld, 6525 ED Nijmegen, The Netherlands



Tetrahedron Lett. **1993**, *34*, 3185

SYNTHESIS OF A NOVEL, CONFORMATIONALLY RESTRICTED ANALOG OF TRYPTOPHAN

Luca Franceschetti, Aaron Garzon-Aburbeh, Mahmoud R. Mahmoud, Benedetto Natalini and Roberto Pellicciari.*
Istituto di Chimica Farmaceutica e Tecnica Farmaceutica, Università degli Studi di Perugia, Via del Liceo, 1 - 06123 Perugia (Italy)

The synthesis of a new, conformationally restrained analog of tryptophan, 1,2,3,4-tetrahydro-2-amino-2-carboxy-cyclopent[b]indole is described.