

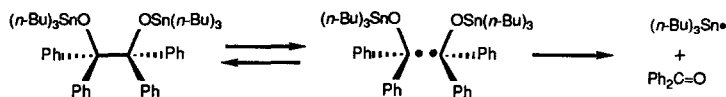
GRAPHICAL ABSTRACTS

Tetrahedron Lett. **1993**, *34*, 7819

BIS(TRI-*n*-BUTYLSTANNYL)BENZOPINACOLATE: PREPARATION AND USE AS A MEDIATOR OF INTERMOLECULAR FREE RADICAL REACTIONS.

David J. Hart*, Ramanarayanan Krishnamurthy, Lori M. Pook, and Franklin L. Seely, Department of Chemistry, The Ohio State University, 120 W. 18th Ave., Columbus, Ohio 43210

The preparation and use of the title reagent as a thermal source of tin radicals is described



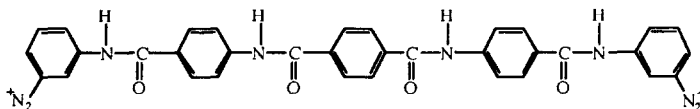
Tetrahedron Lett. **1993**, *34*, 7823

**DEVELOPMENT OF NEW DNA-BINDING AND CLEAVING MOLECULES
DESIGN, SYNTHESIS AND ACTIVITY OF A BISDIAZONIUM SALT**

Dev P. Arya, Philip M. Warner,* and David J. Jebaratnam*

Department of Chemistry, Northeastern University, Boston, MA 02115

The following bisdiazonium compound cleaves DNA with high efficiency.

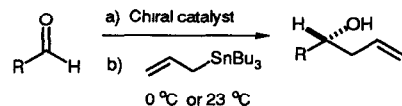


Tetrahedron Lett. **1993**, *34*, 7827

**Catalytic Asymmetric Allylation (CAA) Reactions. II.
A New Enantioselective Allylation Procedure**

Gary E. Keck* and Leo S. Geraci

Department of Chemistry, University of Utah, Salt Lake City, Utah, 84112



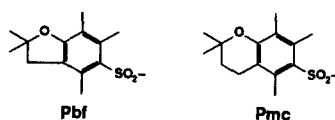
Practical improvements in catalyst preparation from BINOL and $Ti(O-i-Pr)_4$ are reported.

Tetrahedron Lett. **1993**, *34*, 7829

THE 2,2,4,6,7-PENTAMETHYLDIHYDROBENZOFURAN-5-SULFONYL GROUP (Pbf) AS ARGININE SIDE CHAIN PROTECTANT.

Louis A. Carpino,*^a El-Sayed M. E. Mansour,^a Holger Wenschuh,^a Hitesh Shroff,^{a,b} Salvatore A. Trilo,^{a,b} and Fernando Albericio.^b
^aDept. of Chemistry, Univ. of Mass., Amherst, MA 01003; ^bMillipore Corp., Core R and D, 75A Wiggins Ave., Bedford, MA 01730

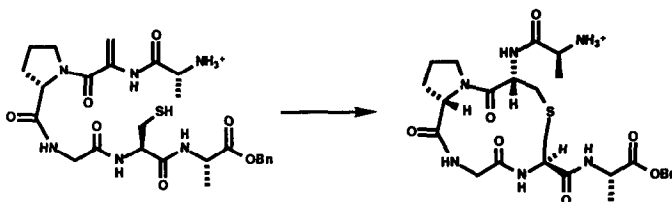
As arginine side chain protectant the Pbf group is more readily deblocked by TFA than the corresponding Pmc derivative.



MODEL STUDIES OF LANTIBIOTIC BIOGENESIS.*Tetrahedron Lett.* 1993, 34, 7833

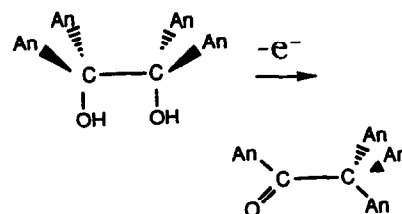
Peter L. Toogood, Willard H. Dow Laboratories, Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055.

A six residue polypeptide has been synthesized to study the proposed biosynthesis of lanthionine. It is shown that this peptide spontaneously cyclizes in a biomimetic fashion *via* a completely stereoselective intramolecular Michael addition to form (2*S*, 6*R*)-lanthionine, as found in naturally occurring lantibiotics

**RADICAL CATION CATALYZED PINA COL- PINA COLONE REARRANGEMENT***Tetrahedron Lett.* 1993, 34, 7837

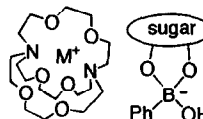
J. Arce de Sanabria* and Arturo E. Carrión
Department of Chemistry
University of Puerto Rico
Río Piedras, Puerto Rico 00931

The rearrangement of electron-rich benzopinacols to the corresponding pinacolone by treatment with NOBF₄ and by electrooxidation is discussed. Experiments are in accordance with a radical-cation catalyzed mechanism.

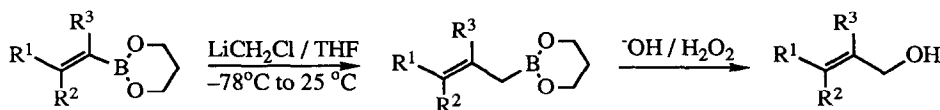
**METAL CATION:GLUCOPYRANOSIDE CO-TRANSPORT THROUGH A LIQUID ORGANIC MEMBRANE.***Tetrahedron Lett.* 1993, 34, 7841

Mane-France Paugam, Gregory T. Morn, and Bradley D. Smith*
Department of Chemistry and Biochemistry
University of Notre Dame, Notre Dame, IN, 46556, USA

A carrier admixture of phenylboronic acid and [2.2.2]-cryptand simultaneously co-transport *p*-nitrophenyl β -glucopyranoside, M⁺, and OH⁻ through a liquid organic membrane. Active glucopyranoside transport occurred in the direction of a metal cation concentration gradient.

**Highly General Synthesis of [E]- and [Z]-3-Alkylsubstituted Allylboronates *via* One-Carbon Homologation of Stereospecific 1-Alken-1-ylboronates***Tetrahedron Lett.* 1993, 34, 7845

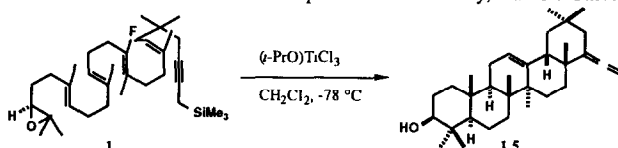
Herbert C. Brown,* Avinash S. Phadke and Narayan G. Bhat
H. C. Brown and R. B. Wetherill Laboratories of Chemistry, Purdue University, West Lafayette, Indiana 47907, USA



Epoxide-Initiated Cationic Polyene Cyclisations.

Tetrahedron Lett. 1993, 34, 7849

Paul V. Fish, Anantha R. Sudhakar and William S. Johnson Department of Chemistry, Stanford University, Stanford, CA 94305



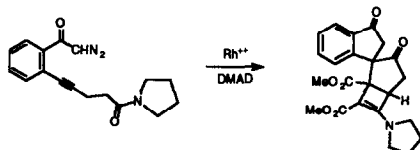
The Lewis acid (2-propoxy)titanium trichloride is an efficient reagent for epoxide-initiated cationic polyene cyclisations. For example, epoxide **1** underwent cyclisation to yield pentacyclic product **15** in a respectable 21 % yield.

SYNTHESIS OF OXA-BICYCLIC RING SYSTEMS VIA A TANDEM Rh(II) CATALYZED CYCLIZATION-CYCLOADDITION SEQUENCE

Albert Padwa*, Jamal M. Kassir, Mark A. Semones, and M. David Weingarten
Department of Chemistry, Emory University, Atlanta, Georgia 30322

Tetrahedron Lett. 1993, 34, 7853

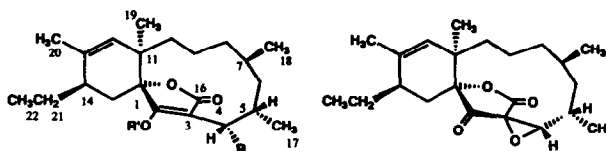
A new annulation sequence leading to oxabicyclic ring systems is effected by treating *o*-alkynyl substituted α -diazoacetophenones containing tethered carbonyl groups with Rh(II) carboxylates in the presence of C-C π -bonds.



STRUCTURES OF A88696 C, D and F: GASTRIC ATP-ASE INHIBITORS. Rosanne Bonjouklian*, Jon S. Mynderse, Ann H. Hunt and Jack B. Deeter, Lilly Research Labs, Eli Lilly & Co., Indianapolis, IN 46285 USA

Tetrahedron Lett. 1993, 34, 7857

The structures of A88696 C, D and F, isolated from *Streptomyces sclerotialus*, are described on the basis of spectroscopic analysis.



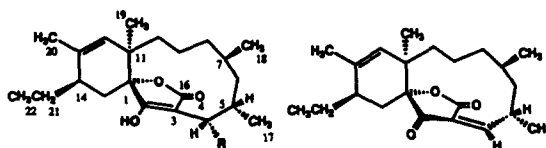
1, R, R' = H, A88696C
3, R = OH, R' = H, A88696F

2, A88696D

CHEMISTRY OF THE MICROBIAL METABOLITE A88696 F, A NEW 2-(α -HYDROXYALKYL) TETRONIC ACID. Rosanne Bonjouklian, Lilly Research Labs, Eli Lilly & Co., Indianapolis, IN 46285 USA

Tetrahedron Lett. 1993, 34, 7861

Some unusual chemistry of the gastric ATP-ase inhibitor A88696 F is described. It undergoes Et_3N -mediated reduction of the hydroxyl group to afford A88696 C, presumably via olefin **4**.



1, R = H, A88696C
3, R = OH, A88696F

4

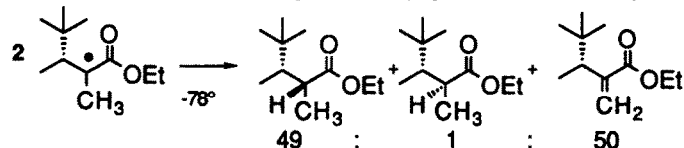
Stereoselective Radical-Radical Disproportionation

Tetrahedron Lett. 1993, 34, 7865

Ned A. Porter* and Ian J. Rosenstein

Department of Chemistry, Duke University, Durham, NC, 27708

Radicals derived from Ethyl 2,3,4,4-pentanoate disproportionate stereoselectively



INSULIN SECOND MESSENGERS: SYNTHESIS OF 6-O-(2-AMINO-2-DEOXY- α -D-GLUCOPYRANOSYL)-D-CHIRO-INOSITOL-1-PHOSPHATE

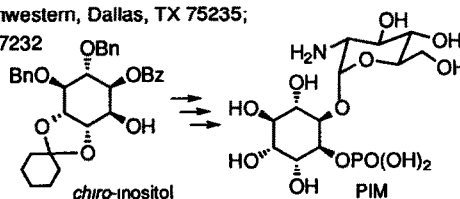
Tetrahedron Lett. 1993, 34, 7869

K. K. Reddy¹, J.R. Falck^{1*}, J. Capdevila²

¹Depts. Molecular Genetics/Pharmacology, Univ. of TX Southwestern, Dallas, TX 75235;

²Dept. Medicine, Vanderbilt Medical School, Nashville, TN 37232

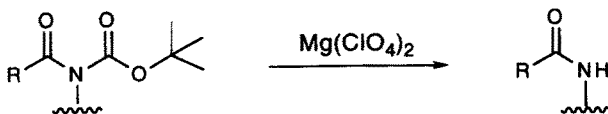
A differentially protected D-chiro-inositol was prepared from (-)-quinic acid and selectively glycosylated to give the biologically active, core disaccharide of a putative insulin mediator (PIM).



A Highly Selective Protocol for the Deprotection of BOC-Protected Amides and Carbamates.

Tetrahedron Lett. 1993, 34, 7873

Jeffrey A. Stafford*, Marcus F. Brackeen, Donald S. Karanewsky, and Nicole L. Valvano
Glaxo Research Institute, 5 Moore Drive, Research Triangle Park, NC 27709



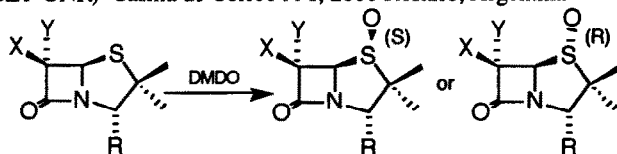
SELECTIVE OXIDATION OF PENICILLIN DERIVATIVES TO PENICILLIN (1R) AND (1S)-SULFOXIDES USING DIMETHYLDIOXIRANE

Tetrahedron Lett. 1993, 34, 7877

Gerardo O. Danelon, Ernesto G. Mata and Oreste A. Mascaretti,*

Instituto de Química Orgánica de Síntesis (CONICET-UNR) Casilla de Correo 991, 2000 Rosario, Argentina

Dimethyldioxirane appears as an efficient and selective oxidant for the asymmetric synthesis of penicillin (1R) and (1S)-sulfoxides.



**ISOLATION OF LINEAR PEPTIDES RELATED TO THE HEPATOTOXINS
NODULARIN AND MICROCYSTINS**

Tetrahedron Lett. **1993**, *34*, 7881

Byoung Wook Choi, Michio Namikoshi, Furong Sun, and Kenneth L. Rinehart*, School of Chemical Sciences, University of Illinois, Urbana, Illinois 61801; Wayne W. Carmichael, Anne M. Kaup, and William R. Evans, Department of Biological Sciences, Wright State University, Dayton, Ohio 45435, Val R. Beasley, Department of Veterinary Biosciences, University of Illinois, Urbana, Illinois 61801

Linear peptides (2-5) were isolated from *Nodularia spumigena* (2) and *Microcystis* spp (3-5). Linear peptides 2 and 3 are proposed as possible biogenetic precursors of nodularin and microcystins.

Adda-D-Glu(γ)-Mdhb-D-MeAsp(β)-L-Arg-OH (2)

L-Leu-D-MeAsp(β)-L-Arg-Adda-D-Glu(γ)-Mdha-D-Ala-OH (4)

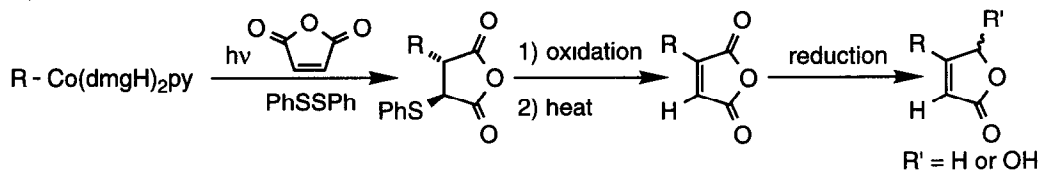
Adda-D-Glu(γ)-Mdha-D-Ala-L-Leu-D-MeAsp(β)-L-Arg-OH (3)

L-Phe-D-MeAsp(β)-L-Arg-Adda-D-Glu(γ)-Mdha-D-Ala-OH (5)

A COBALOXIME-MEDIATED RADICAL ROUTE TO BUTENOLIDES

Tetrahedron Lett. **1993**, *34*, 7885

Bruce P. Branchaud,* Rachel M. Slade and Samantha K. Janisse
Department of Chemistry, University of Oregon, Eugene, Oregon 97403-1253



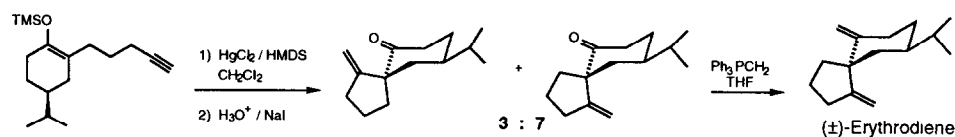
A Stereoselective Total Synthesis of (\pm)-Erythrodiene

Tetrahedron Lett. **1993**, *34*, 7889

He Huang and Craig J. Forsyth*

Department of Chemistry, University of Minnesota, Minneapolis, Minnesota 55455

Erythrodiene has been synthesized using a stereoselective intramolecular carbomercuration reaction.



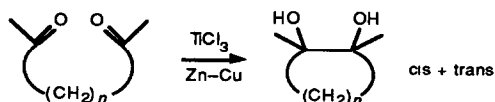
**ON THE STEREOCHEMISTRY OF THE TITANIUM-INDUCED
INTRAMOLECULAR PINACOL COUPLING REACTION**

Tetrahedron Lett. **1993**, *34*, 7891

John E. McMurry and Nathan O. Siemers

Department of Chemistry, Baker Laboratory, Cornell University, Ithaca, NY 14853

We have devised a simple model for predicting the stereochemistry of the titanium-induced intramolecular pinacol coupling reaction, based on molecular mechanics calculations of acetals of the potential pinacol products.

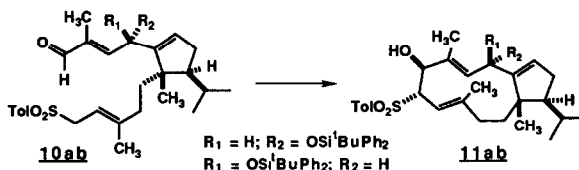


AN EFFICIENT SYNTHESIS OF THE DOLABELLANES.

Tetrahedron Lett. 1993, 34, 7895

D.R. Williams*, Paul J. Coleman, C. Richard Nevill, and Leslie A. Robinson
Department of Chemistry, Indiana University, Bloomington, Indiana 47405, U.S.A.

Stereocontrolled intramolecular condensations of α -sulfonyl carbanions with α,β -unsaturated aldehydes provide an efficient synthesis of the [9.3.0] dolabellane diterpenes.

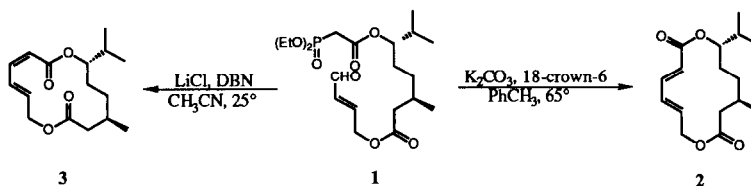


STEREODIVERGENCE IN AN INTRAMOLECULAR HORNER-EMMONS MACROCYCLIZATION. EFFECT OF REACTION CONDITIONS ON PRODUCT DISTRIBUTION

Tetrahedron Lett. 1993, 34, 7899

Michelle L. Morin-Fox and Mark A. Lipton*, *Department of Chemistry, Purdue University, West Lafayette, IN 47907*

Cyclization of **1** affords the strained *E*-olefin **2** under most Horner-Emmons conditions; the more stable *Z*-isomer **3** predominates when LiCl/DBN is used as base.

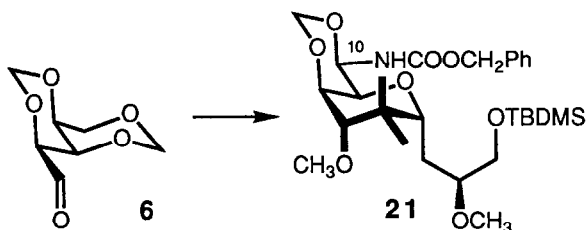


SYNTHESIS OF THE TRIOXADECALIN-PART OF MYCALAMIDE B

Tetrahedron Lett. 1993, 34, 7903

Reinhard W. Hoffmann and Achim Schlapbach
Fachbereich Chemie der Philipps-Universität,
D-35032, Marburg, Germany

The carbamate **21** corresponding to 10-*epi*-mycalamide B has been synthesized in 16 steps from dimethylene-L-xylose **6**



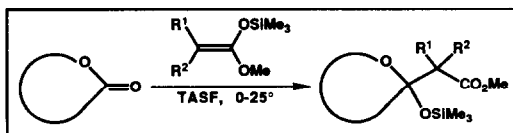
CONVENIENT FLUORIDE-MEDIATED REACTIONS OF LACTONES WITH Silyl KETENE ACETALS

Tetrahedron Lett. 1993, 34, 7907

RENÉ CSUK* and MARTINA SCHAADÉ

PHARMAZEUTISCH-CHEMISCHES INSTITUT, UNIVERSITÄT HEIDELBERG, Im Neuenheimer Feld 364,
D-69120 Heidelberg, Germany

Aldolisation reactions of silyl ketene acetals with lactone carbonyls can be performed under very mild conditions in good yields in the presence of catalytic amounts of TASF



STEREOSELECTIVE SYNTHESIS OF POLYFUNCTIONAL DI- AND TRISUBSTITUTED CYCLOPENTANE DERIVATIVES USING A NEW PALLADIUM CATALYZED CYCLIZATION

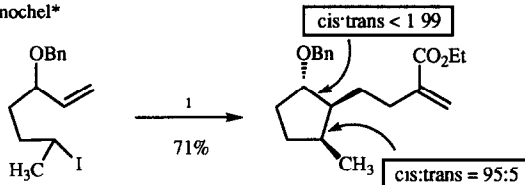
Tetrahedron Lett. **1993**, *34*, 7911

Heinz Stadtmüller, Charles E. Tucker, Andrea Vaupel and Paul Knochel*

Fachbereich Chemie der Philipps-Universität Marburg

Hans-Meerwein-Straße, D - 35043 Marburg, Germany

- 1) Et_2Zn (2 equiv.), $\text{PdCl}_2(\text{dppf})$ (2 mol%), 20 °C, 5-20h
 2) $\text{CuCN}\cdot 2\text{LiCl}$ 3) ethyl 2-(bromomethyl)acrylate



Azido-phenylselenylation of Protected Glycols.

Tetrahedron Lett. **1993**, *34*, 7915

Stanislas Czernecki* and Dominique Randriamandimby

Laboratoire de Chimie des Glucides, Université Pierre et Marie Curie

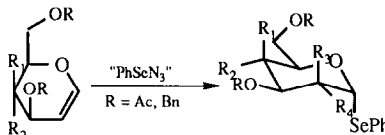
4 place Jussieu, 75005, Paris, France.

1a $\text{R}_1=\text{H}$, $\text{R}_2=\text{OAc}$

1b $\text{R}_1=\text{H}$, $\text{R}_2=\text{OBn}$

4a $\text{R}_1=\text{OAc}$, $\text{R}_2=\text{H}$

4b $\text{R}_1=\text{OBn}$, $\text{R}_2=\text{H}$



2a $\text{R}_1=\text{H}$, $\text{R}_2=\text{OAc}$, $\text{R}_3=\text{H}$, $\text{R}_4=\text{N}_3$

3a $\text{R}_1=\text{H}$, $\text{R}_2=\text{OAc}$, $\text{R}_3=\text{N}_3$, $\text{R}_4=\text{H}$

2b $\text{R}_1=\text{H}$, $\text{R}_2=\text{OBn}$, $\text{R}_3=\text{H}$, $\text{R}_4=\text{N}_3$

3b $\text{R}_1=\text{H}$, $\text{R}_2=\text{OBn}$, $\text{R}_3=\text{N}_3$, $\text{R}_4=\text{H}$

5a $\text{R}_1=\text{OAc}$, $\text{R}_2=\text{H}$, $\text{R}_3=\text{H}$, $\text{R}_4=\text{N}_3$

5b $\text{R}_1=\text{OBn}$, $\text{R}_2=\text{H}$, $\text{R}_3=\text{H}$, $\text{R}_4=\text{N}_3$

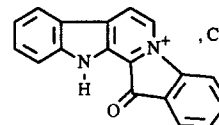
A SHORT SYNTHESIS OF THE ANTIMICROBIAL MARINE SPONGE PIGMENT FASCAPLYSIN.

Tetrahedron Lett. **1993**, *34*, 7917

Patrick Rocca, Francis Marsais, Alain Godard and Guy Quéguiner*.

URA CNRS 1429, INSA de Rouen, BP 08, 76131 Mt-St-Aignan Cédex, FRANCE.

A short and convergent synthesis of Fascaplysin is reported. The approach is based on a recently developed methodology which involves such reactions as metalation, heteroring cross-coupling and cyclization.



CONVERGENT SYNTHESIS OF STREPTONIGRIN AND LAVENDAMYCIN ANALOGUES.

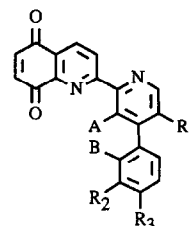
Tetrahedron Lett. **1993**, *34*, 7919

A. Godard*, P. Rocca, J.-M. Fourquez, J.-C. Rovera, F. Marsais, and G. Quéguiner.

URA CNRS 1429, INSA de Rouen, BP 08, 76131 Mt-St-Aignan Cédex, FRANCE.

A convergent synthesis of streptonigrin and lavendamycin analogues incorporating a quinoline-5,8-dione structure is reported. The approach is based on our synthetic methodology which involves such reactions as metalation, heteroring cross-coupling and oxidative demethylation.

$\text{R}_1 = \text{H, Me}$, $\text{R}_2 = \text{R}_3 = \text{H, OMe}$; $\text{A} = \text{NHR}$ and $\text{B} = \text{OR}$, $\text{AB} = \text{NH}$

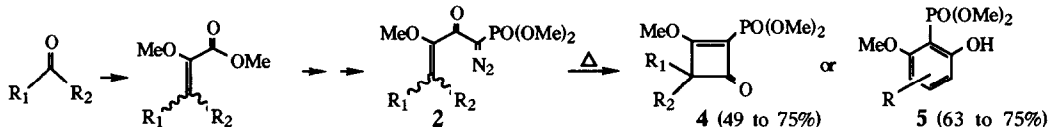


PREPARATION OF FUNCTIONALIZED CYCLOBUTENONES AND PHENOLIC COMPOUNDS FROM α -DIAZO β -KETOPHOSPHONATES

Tetrahedron Lett. 1993, 34, 7923

R Andriamadanarivo, B. Pujol, B. Chantegrel, C. Deshayes and A. Doutheau*

Laboratoire de Chimie Organique, Département de Biochimie, Institut National des Sciences Appliquées de Lyon, 20 avenue Albert Einstein - 69621 Villeurbanne, France



The heating, in benzene or toluene, of diazo compounds 2 gave rise to either 4 or 5 depending of the starting keto compound.

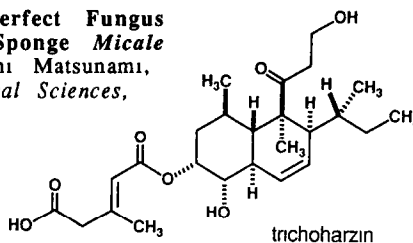
Tetrahedron Lett. 1993, 34, 7925

Trichoharzin, a New Polyketide Produced by the Imperfect Fungus *Trichoderma harzianum* Separated from the Marine Sponge *Micale cecilia*

Motomasa Kobayashi, Hideto Uehara, Katsuyoshi Matsunami, Shunji Aoki, and Isao Kitagawa*

Faculty of Pharmaceutical Sciences, Osaka University, Yamada-oka 1-6, Suita, Osaka 565, Japan

The absolute stereostructure of trichoharzin, isolated as a characteristic metabolite from a culture of the fungus *Trichoderma harzianum* in a medium containing sea water, has been elucidated.



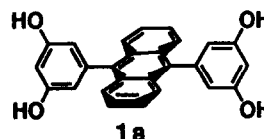
Tetrahedron Lett. 1993, 34, 7929

Hydrogen-Bonded Network Formation in Organic Crystals As Effected by Perpendicular and Divergent Hydroxyl Groups: The Crystal Structure of a Bisresorcinol Derivative of Anthracene

Kenji Kobayashi, Ken Endo, Yasuhiro Aoyama* and Hideki Masuda

Department of Chemistry, Nagaoka University of Technology, Kamitomioka, Nagaoka, Nagata 940-21, Japan and Department of Applied Chemistry, Nagoya Institute of Technology, Gokiso-Cho, Showa-Ku, Nagoya 466, Japan

An anthracene derivative 1a having two nearly perpendicular resorcinol moieties forms molecular sheets composed of hydrogen bonded polyresorcinol chains and face-to-face anthracene columns

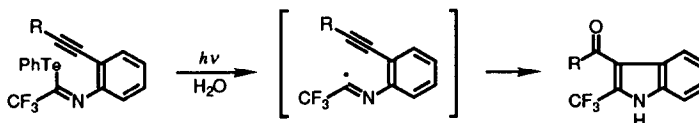


Tetrahedron Lett. 1993, 34, 7933

Photolysis of Phenyltellurotrifluoroacetimidates; A New Approach to Generation of α -Trifluoroacetimidoyl Radicals Leading to the Synthesis of Indole Derivatives

Yasufumi Ueda, Hisayuki Watanabe, Junko Uemura, and Kenji Uneyama*

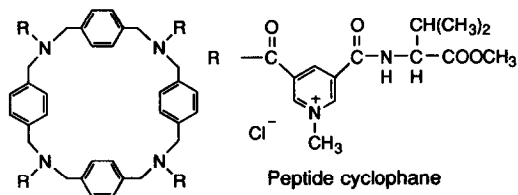
Department of Applied Chemistry, Faculty of Engineering, Okayama University, Okayama 700, Japan



PREPARATION AND CHARACTERIZATION OF A WATER-SOLUBLE PEPTIDE CYCLOPHANE AS A CATIONIC HOST FOR VARIOUS HYDROPHOBIC GUEST MOLECULES

Yukito Murakami,* Osamu Hayashida, and Yasuyuki Nagai
Department of Chemical Science and Technology, Faculty of Engineering, Kyushu University, Fukuoka 812, Japan

Formation of inclusion complexes of a peptide cyclophane with anionic guests, such as Orange G, Naphthol Yellow S, and Bromopyrogallol Red, was confirmed by means of electrospray ionization (ESI) mass spectrometry.



Tetrahedron Lett. 1993, 34, 7935

SYNTHESIS OF A TETRASACCHARIDE FRAGMENT OF HYALURONIC ACID HAVING A GLUCURONIC ACID AT THE REDUCING END¹

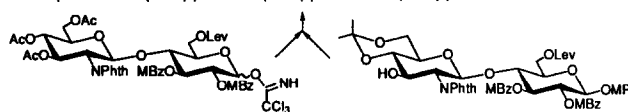
Ted M. Slaghek^a, Teija K. Hyppönen^a, Tomoya Ogawa^{b,c}, Johannes P. Kamerling^a, and Johannes F.G. Vliegenthart^a

a) Bijvoet Center, Dept. of Bio-Organic Chemistry, Utrecht University, P.O. Box 80.075, 3508 TB Utrecht, The Netherlands

b) The Institute of Physical and Chemical Research (RIKEN), Wako-shi, Saitama, 351-01 Japan

c) Faculty of Agriculture, University of Tokyo, Yayoi, Bunkyo-ku, Tokyo, 113 Japan

Synthesis of the alternating tetrasaccharide of hyaluronan is presented
 β -D-GlcNAc-(1→4)- β -D-GlcA-(1→3)- β -D-GlcNAc-(1→4)- β -D-GlcA-1→OMP

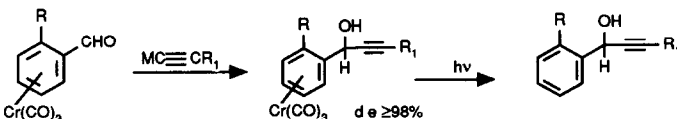


Tetrahedron Lett. 1993, 34, 7939

STEREOSELECTIVE ALKYNYLATION OF CHIRAL BENZALDEHYDE CHROMIUM TRICARBONYL COMPLEXES. SYNTHESIS OF OPTICALLY ACTIVE ALKYNYL ALCOHOLS.

Clara Baldoli*, Paola Del Buttero, Emanuela Licandro, Stefano Maiorana*,

Antonio Papagni, Maurizio Torchio- Dipartimento di Chimica Organica e Industriale dell'Universita'-CNR, Centro Studio Sintesi e Stereochimica Speciali Sistemi Organici - Via C. Golgi 19 I - 20133 MILANO, Italy

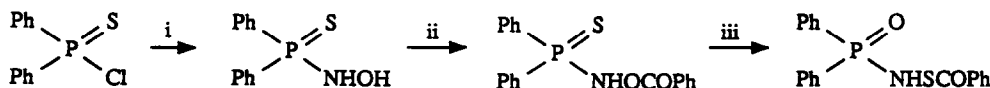


Addition of lithium acetylides and ethynyl magnesium bromide to chiral ortho substituted benzaldehyde tricarbonyl chromium complexes, gives alkynyl alcohols in good yields and with complete stereoselection

Tetrahedron Lett. 1993, 34, 7943

N-(DIPHENYLPHOSPHINOTHIOYL)HYDROXYLAMINE; TRANSPOSITION OF O AND S IN ITS O-BENZOYL DERIVATIVE

Martin J. P. Harger, Department of Chemistry, The University, Leicester LE1 7RH, U.K.

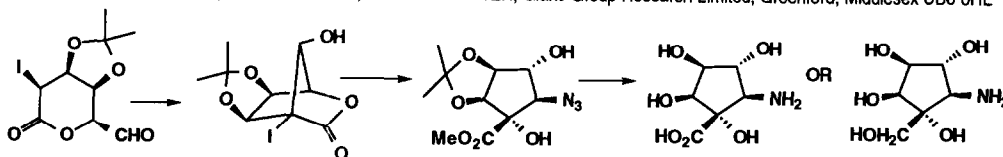


i, $H_2NOSiMe_3-Et_3N$ then MeOH; ii, PhCOCl-Et₃N; iii, NaOMe

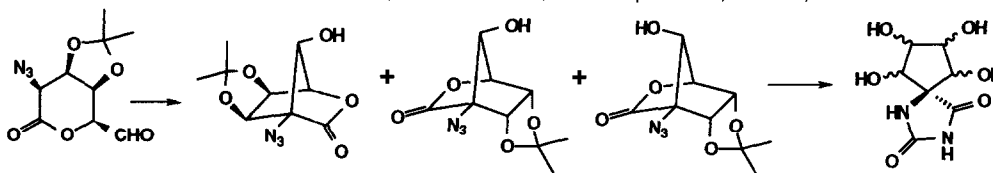
Tetrahedron Lett. 1993, 34, 7947

HIGHLY SUBSTITUTED CIS- β -CYCLOPENTANE AMINO ACIDS:**AN APPROACH TO THE SYNTHESIS OF TREHAZOLIN ANALOGUES**

R P Elliott, A Hui, A J Fairbanks, R J Nash, B G Winchester, G Way, C Smith, R B Lamont, R Storer, G W J Fleet* Dyson Perms Laboratory, Oxford Centre for Molecular Sciences, Oxford OX1 3QY UK, AFRC Institute of Grassland & Environmental Research, Aberystwyth, Dyfed SY23 3EB, Institute of Child Health, 30 Guilford Street, London WC1N 1EH; Glaxo Group Research Limited, Greenford, Middlesex UB6 0HE

Tetrahedron Lett. 1993, 34, 7949**SYNTHESIS OF CYCLOPENTANE SPIROHYDANTOINS BY ALDOL CYCLISATIONS:****AN APPROACH TO HIGHLY SUBSTITUTED α -CYCLOPENTANE AMINO ACIDS**

A J Fairbanks, R P Elliott, C Smith, A Hui, G Way, R Storer, H Taylor, D J Watkin, B G Winchester and G W J Fleet* Dyson Perms Laboratory, Oxford Centre for Molecular Sciences, Oxford OX1 3QY UK; Chemical Crystallography Laboratory, Oxford University, Oxford OX1 3PD UK, Institute of Child Health, 30 Guilford Street, London WC1N 1EH, Glaxo Group Research, Greenford, Middlesex UB6 0HE

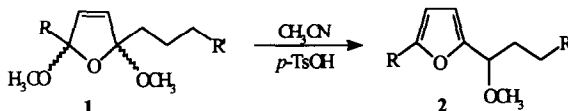
Tetrahedron Lett. 1993, 34, 7953**SYNTHESIS OF 2-FURYL CARBINOL DERIVATIVES BY AN ACID-CATALYSED REARRANGEMENT OF 2,5-DIMETHOXY-2,5-DIHYDROFURANS**

Cristina Cecchini, Franco D'Onofrio, and Giovanni Piancatelli*

Centro C N R di Studio per la Chimica delle Sostanze Organiche Naturali, Dipartimento di Chimica, Università "La Sapienza", p.le A Moro 5, 00185 Roma, Italy.

Tetrahedron Lett. 1993, 34, 7957

2,5-Dimethoxy-2,5-dihydrofurans **1** undergo an acid-catalysed rearrangement to 2-furylcarbinol derivatives **2**



- a R=H, R'-OAc
- b R=CH₃, R'-OAc
- c R=H, R'-C₃H₉

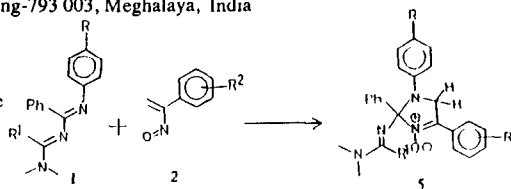
REGIOSELECTIVE AND UNUSUAL [3+2] CYCLOADDITIONS OF α -NITROSTYRENES WITH 1,3-DIAZA-1,3-BUTADIENES

Arun K Sharma, Sujit N Mazumdar and Mohinder P. Mahajan*

Department of Chemistry, North-Eastern Hill University, Shillong-793 003, Meghalaya, India

Tetrahedron Lett. 1993, 34, 7961

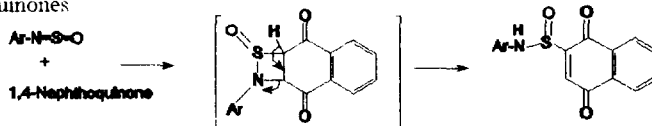
α -Nitrostyrenes (**2**), underwent unusual regioselective [3+2] cycloadditions with 1,3-diaza-1,3-butadienes (**1**) leading to cyclic nitrones (**5**) in good yields.



**A Novel Reaction of Aryl N-Sulphinylamines,
Addition to 1,4-Naphthoquinone.**

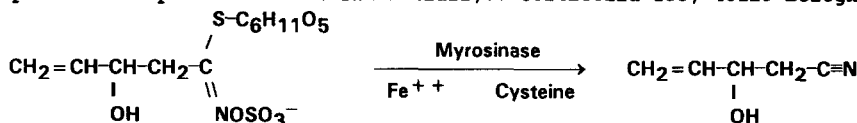
Ananda S. Amarasekara, Wimal Pathmasiri, Department of Chemistry, University of Colombo, P O Box 1490, Colombo 3, Sri Lanka

Aryl N-sulphinylamines react with 1,4-naphthoquinone to give 2-arylsulphomoyl-1,4-naphthoquinones



**THE FORMATION OF 2-HYDROXYBUT-3-ENYL CYANIDE
FROM (2S)-2-HYDROXYBUT-3-ENYL GLUCOSINOLATE**

USING IMMOBILIZED MYROSINASE - O. Leoni, F. Felluga and S. Palmieri
Istituto Sperimentale per le Colture Industriali, v. Corticella 133, 40129 Bologna ITALY

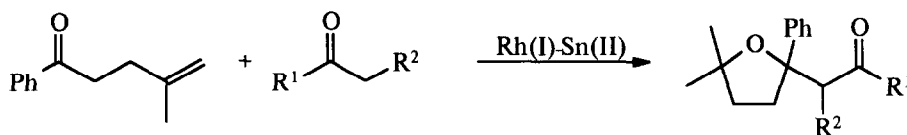


Myrosinase immobilized on Nylon 6.6 catalyze the production of 2-hydroxybut-3-enyl cyanide starting from an aqueous solution of (2S)-2-hydroxybut-3-enyl glucosinolate purified from *Crambe abyssinica* seeds.

**CATALYTIC ADDITION-CYCLIZATION OF ALKYL KETONES
WITH 4-METHYL-1-PHENYL-4-PENTEN-1-ONE.**

Vyacheslav V Ipatkin, Igor P Kovalev, Anatoly V Ignatenko, and Gennady I Nikishin*

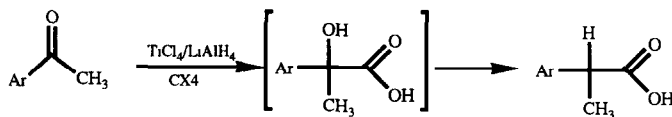
N D Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Leninsky Prospect 47, 117913
Moscow B-334, RUSSIA



**A NEW METHOD FOR THE PREPARATION OF
2-ARYL PROPIONIC ACIDS USING LOW-VALENT TITANIUM**

M.García, C. del Campo, J.V Sinisterra and E.F.Llana*

Department of Organic and Pharmaceutical Chemistry, Faculty of Pharmacy,
Universidad Complutense 28040 Madrid, Spain.

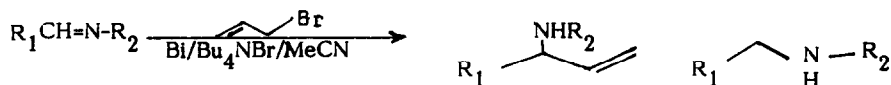


**METALLIC BISMUTH AND TANTALUM MEDIATED
C-ALLYLATION OF ALDIMINES WITH ALLYL BROMIDE**

Tetrahedron Lett. **1993**, *34*, 7975

Pulak J. Bhuyan, Dipak Prajapati and Jagir S. Sandhu*
Regional Research Laboratory, Jorhat 785 006, Assam, INDIA

A facile method for the synthesis of homoallyl amines using Bi/Bu₄NBr/MeCN and Ta/Bu₄NBr/THF system has been performed in a regioselective manner.



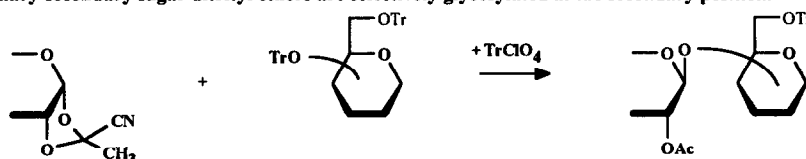
UNUSUAL REGIOSELECTIVE GLYCOSYLATION OF SUGAR SECONDARY TRITYLOXY FUNCTION IN THE PRESENCE OF PRIMARY ONE

Tetrahedron Lett. **1993**, *34*, 7977

Yury E Tsvetkov, Pavel I Kitov, Leon V Backinowsky*, Nikolay K Kochetkov

N D Zelinsky Institute of Organic Chemistry, Russian Academy of Sciences, Leninsky pr 47, 117913 Moscow, Russia

Primary-secondary sugar ditrityl ethers are selectively glycosylated at the secondary position.

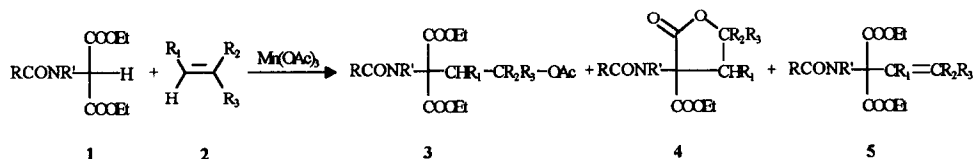


**Mn(III) ACETATE INDUCED ADDITION OF α -AMIDOMALONIC ESTER
DERIVATIVES TO CONJUGATED OLEFINS**

Tetrahedron Lett. **1993**, *34*, 7981

Attilio Citterio*, Antonio Marion, Antonietta Maronati, Marco Nicolini

Dipartimento di Chimica, Politecnico di Milano, Via Mancinelli 7, 20131 Milano (ITALY)



**AN APPLICATION OF QUINIC ACID TO THE SYNTHESIS OF CYCLIC
HOMOCHIRAL MOLECULES: A COMMON ROUTE TO SOME
INTERESTING CARBOCYCLIC NUCLEOSIDE PRECURSORS.**

Tetrahedron Lett. **1993**, *34*, 7985

M. T. Barros^{a,b}, A. G. Santos^{a,b}, L. S. Godinho^a and C. D. Maycock^{c,d*} ^aUniversidade Nova de Lisboa, ^bCentro de Tecnologia Química e Biológica, ^cCentro de Espectrometria de Massa, ^dUniversidade de Lisboa

The borohydride reduction of cyclopentenone **8** results in a compound **12** which is a common precursor for various aminocyclopentanes such as compounds **16** and **17**, useful for the synthesis of carbocyclic nucleosides.

