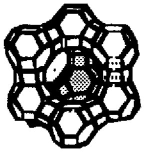
GRAPHICAL ABSTRACTS

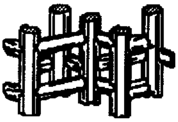
Tetrahedron Lett. **1992**, *33*, 2757

RELATIVE SIZE OF THE HOST AND THE GUEST DETERMINE THE REACTION PRODUCT SELECTIVITY: NORRISH TYPE II REACTION OF ALKANONES WITHIN ZEOLITES.

V. RAMAMURTHY and D. SANDERSON
Central Research and Development, The Du Pont Company, Wilmington, DE.

The importance of the relative size of the reaction cavity to that of the reactant guest in controlling the photochemical behavior of host–guest systems is illustrated with Norrish type II reactions of alkanones as examples.





Tetrahedron Lett. **1992**, *33*, 2761

SIMPLE CONVERSION OF ANHYDRIDES OF BORONIC AND BORINIC ACIDS TO THE CORRESPONDING ORGANODIHALOBORANES AND DIORGANOHALOBORANES

Thomas E. Cole,* Ramona Quintanilla, Brian M. Smith and David Hurst
Department of Chemistry, San Diego State University, San Diego, California 92182-0328

Anhydrides of boronic or borinic acids cleanly react with trihaloboranes to yield the corresponding organohaloboranes in high yield and purity.

$$3\ R_2B{-}O{-}BR_2 + 2\ BX_3 \xrightarrow{\text{pentane}} 6\ R_2B{-}X + B_2O_3$$

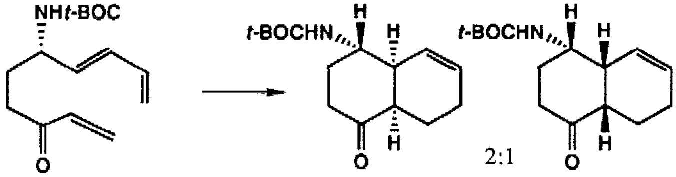
$$(RBO)_3 + 2\ BX_3 \xrightarrow{\text{pentane}} 3\ RB{-}X_2 + B_2O_3$$

Tetrahedron Lett. **1992**, *33*, 2765

Model Studies Aimed at *Aristotelia* Alkaloids:Intramolecular Cycloaddition of N-*t*-BOC-6-Amino-1,7,9-Decatrien-3-one

Michael J. Taschner*, Yiyun Huang, Abdullah El-Alali[†], Lee Chen, and Wiley J. Youngs, Department of Chemistry,The University of Akron, Akron, Ohio 44325-3601, [†]Faculty of Sciences, Chemistry Section, Mu'Tah University, Mu'Tah/Al-Karak, Jordan

An asymmetric approach for the synthesis of some *Aristotelia* alkaloids utilizing an intramolecular cycloaddition of a decatrienone derived from L-glutamic acid is reported.

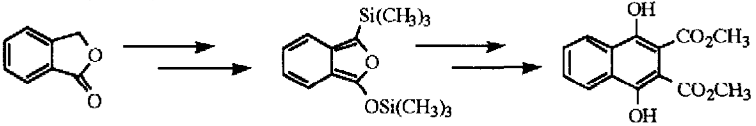


Tetrahedron Lett. **1992**, *33*, 2769

1-TRIMETHYLSILYL-3-TRIMETHYLSILYLOXYISOBENZOFURAN - A POTENTIALLY USEFUL SYNTHON FOR LINEAR POLYCYCLICS

J. L. Bloomer* and M. E. Lankin
Department of Chemistry, Temple University
Philadelphia, Pa. USA 19122

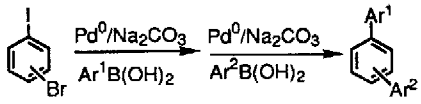
Abstract: 1-Trimethylsilyl-3-trimethylsilyloxyisobenzofuran may be prepared in a simple one-pot procedure from phthalide as a potentially useful anthracycline synthon.

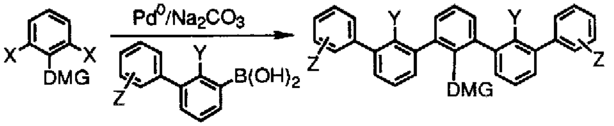


Tetrahedron Lett. **1992**, *33*, 2773

Directed ortho Metalation - Suzuki Cross Coupling Connections. Convenient Regiospecific Routes to Functionalized m- and p- Teraryls m- Quinquearyls

Cathleen M. Unrau, Michael G. Campbell, Victor Snieckus*, Guelph-Waterloo Centre for Graduate Work in Chemistry
University of Waterloo, Waterloo, Ontario, CANADA N2L 3G1.



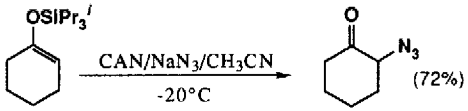


Tetrahedron Lett. **1992**, *33*, 2777

Oxidative Addition of Azide Anion to Triisopropylsilyl Enol Ethers: Synthesis of α-Azido Ketones.

Philip Magnus* and Lisa Barth,
Department of Chemistry and Biochemistry,
University of Texas at Austin, Austin, Texas 78712.

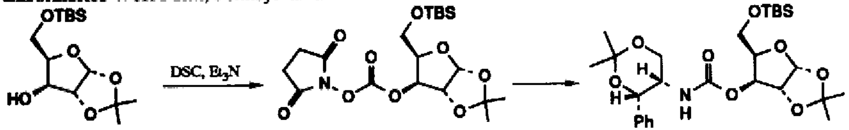
Treatment of triisopropylsilyl enol ethers with ceric ammonium nitrate/sodium azide/CH_3CN at -20°C gives α-azido ketones in average to good yields.



Tetrahedron Lett. **1992**, *33*, 2781

N,N'-Disuccinimidyl Carbonate: A Useful Reagent for Alkoxycarbonylation of Amines

Arun K. Ghosh*, Tien T. Duong, Sean P. McKee, and Wayne J. Thompson
Department of MedicinalChemistry,Merck Sharp & Dohme Research Laboratories West Point, Pennsylvania 1948



A convenient and high yielding synthesis of functionalized carbamates by use of commercially available N,N'-disuccinimidyl carbonate is described.

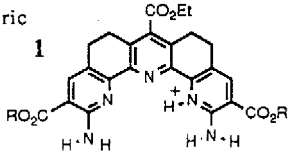
Tetrahedron Lett. **1992**, *33*, 2785

Binding Multiple Phosphodiesters With a Polyazacleft

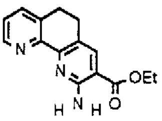
Lisa S. Flatt, Vince Lynch, Eric A. Anslyn*
Department of Chemistry, University of Texas at Austin, Austin TX 78731

Polyazaclefts 1 and 2 were anticipated to bind phosphoric acid esters with either four or two hydrogen bonds, but were found to bind multiple phosphoric acid esters in chlorofrom.

1



2

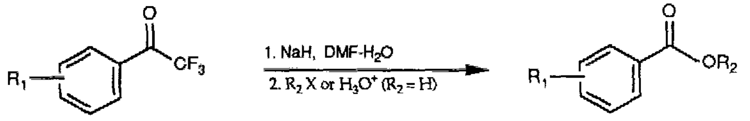


Tetrahedron Lett. **1992**, *33*, 2789

ARYL TRIFLUOROMETHYL KETONE HYDRATES AS PRECURSORS OF CARBOXYLIC ACIDS AND ESTERS

Antonio Delgado and Jon Clardy*
Department of Chemistry-Baker Laboratory, Cornell University, Ithaca, NY 14853-1301

A simple method for the preparation of aryl carboxylic acids and esters from aryl trifluoromethyl ketone hydrates is described.

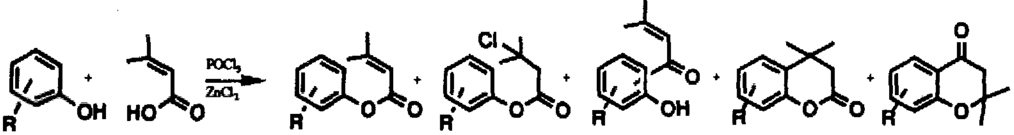


R_1 = H, $COOCH_3$, CHO, CN, 2,4,6-$(OCH_3)_3$
R_2 = H, Et, iPr, Bn

Tetrahedron Lett. **1992**, *33*, 2791

ON THE SYNTHESIS OF SUBSTITUTED 2,2-DIMETHYL-4-CHROMANONES AND RELATED COMPOUNDS

Péter Sebök[a], József Jekö[a], Tibor Timár[a,c] and Joseph Cs. Jaszberenyi*[b,c]
[a]Department of Research, Alkaloida Chemical Co., Tiszavasvári, Hungary H-4440, [b]Research Group of Antibiotics of the Hungarian Academy of Sciences, Department of Chemistry, Kossuth Lajos University, Debrecen, Hungary, H-4010,
[c]Department of Chemistry, Texas A&M University, College Station, Texas, 77843



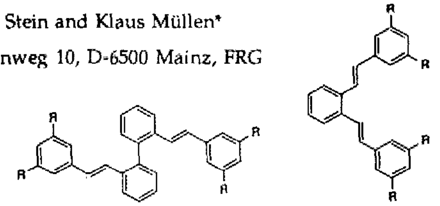
3 4 5 6 7 8 9

Tetrahedron Lett. **1992**, *33*, 2795

SOLID-STATE PHOTOREACTIVITY OF ORTHO-DISTYRYLAROMATIC COMPOUNDS

Arno Böhm, Martin Adam, Heike Mauermann, Stefan Stein and Klaus Müllen*
Max-Planck-Institut für Polymerforschung, Ackermannweg 10, D-6500 Mainz, FRG

Upon photolysis ortho-distyrylaromatic compounds undergo topochemically controlled intra- and intermolecular rearrangements.



R = H, tert. butyl

Tetrahedron Lett. **1992**, *33*, 2799

α-CHYMOTRYPSIN-CATALYZED (3+7) SEGMENT SYNTHESIS OF THE LUTEINIZING HORMONE RELEASING HORMONE

M. Schuster[a], A. Aaviksaar[b], H.-D. Jakubke[a,*], [a]Leipzig University, Biosciences Division, Department of Biochemistry, GERMANY, and [b]Institute of Experimental Biology of the Estonian Academy of Sciences, ESTONIA

LHRH (1) is formed by α-chymotrypsin-catalyzed segment condensation from the segments (2) and (3). High product yield can be obtained when the synthesis reaction is performed at subzero temperatures in the presence of 38 vol % DMSO as organic cosolvent.

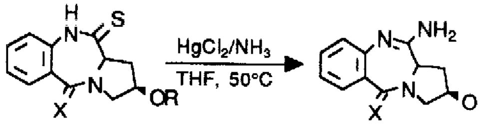
$$\underset{\underline{1}}{\text{Glp-His-Trp-OEt}} + \underset{\underline{2}}{\text{H-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH}_2} \xrightarrow[\text{EtOH}]{\alpha\text{-Chymotrypsin}} \underset{\underline{3}}{\text{Glp-His-Trp-Ser-Tyr-Gly-Leu-Arg-Pro-Gly-NH}_2}$$

Tetrahedron Lett. **1992**, *33*, 2803

Pyrrolo[2,1-c][1,4]Benzodiazepines : A Mild Conversion of Thiolactam into Amidine.

Marie P. Foloppe, Sylvain Rault and Max Robba
Laboratoire de Chimie Thérapeutique, U.F.R. des Sciences Pharmaceutiques.1, rue Vaubénard 14032 CAEN (France)

Reaction of 2-hydroxy pyrrolo [2,1-c] [1,4] benzodiazepines-5-one-11-thione or 5,11-dithiones with ammonia in presence of mercuric chloride affords new amidines in high yield.



R=H,COCH$_3$,COC$_6$H$_5$
X=O,S

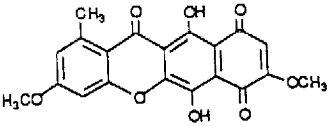
Tetrahedron Lett. **1992**, *33*, 2805

NEW TOTAL SYNTHESIS OF BIKAVERIN

Alain Bekaert, Jean Andrieux, Michel Plat

Laboratoire de Chimie thérapeutique II, SDI 6233 au CNRS, Faculté de Pharmacie, Université PARIS-SUD,
5, rue J.B.Clément, F92296 CHATENAY-MALABRY Cédex, FRANCE.

A six-step synthesis of bikaverin has been achieved, starting with a non-catalysed thermal condensation of the appropriately substituted Mannich base of 2-hydroxynaphtoquinone with orcinol monomethylether.

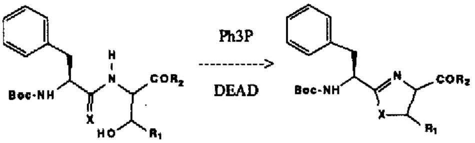


Tetrahedron Lett. **1992**, *33*, 2807

FORMATION OF OXAZOLINES AND THIAZOLINES IN PEPTIDES BY THE MITSUNOBU REACTION

N. Galeotti*, C. Montagne, J. Poncet and P. Jouin. CCIPE, rue de la Cardonille, 34094 MONTPELLIER CEDEX 05, FRANCE

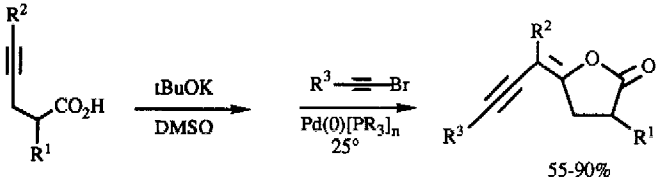
The Mitsunobu reaction was efficiently used to introduce oxazoline and thiazoline in the peptide backbone. The reaction proceeded from β-hydroxy α-amino acid-containing peptides.



Tetrahedron Lett. **1992**, *33*, 2811

EASY ACCESS TO 5-(E)-ALKYNYLIDENE TETRAHYDRO-2 FURANONES BY A PALLADIUM CATALYZED PROCESS

D.BOUYSSI, J.GORE and G.BALME,
Laboratoire de Chimie Organique 1, associé au CNRS, Université Claude Bernard, ESCIL
43 Bd du 11 Novembre 1918, 69622 Villeurbanne, France



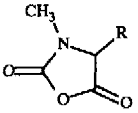
R$_1$ = H, CH$_3$
R$_2$ = H, CH$_3$
R$_3$ = nBu, Ph,(CH$_2$)$_3$Cl

Tetrahedron Lett. **1992**, *33*, 2815

N-METHYL N-CARBOXYANHYDRIDE: AN UNEXPECTED BY-PRODUCT WHEN COUPLING BOC-N-METHYL AMINO ACIDS

Eric Frérot, Jacques Coste*, Joël Poncet, Patrick Jouin, CCIPE, Rue de la Cardonille,
34094 Montpellier Cedex 05, France.
Bertrand Castro, SANOFI-Chimie, 32, Rue Marbeuf, 75008 Paris, France.

Activation of Boc- amino acids and Boc-N-methyl amino acids leads to the corresponding N-carboxyanhydrides. This side reaction explains the low yields obtained when coupling N-methyl amino acids. It was not observed with the Z- or Fmoc-protective groups.

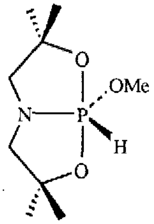


Tetrahedron Lett. **1992**, *33*, 2817

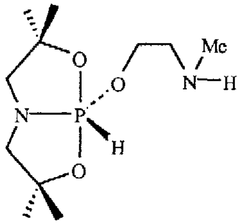
On the Extension of the Atherton-Todd Reaction to the 1-Organyloxy 1-hydridobicyclophosphoranes

Douraid HOUALLA*, Zouhair BOUNJA, Saïd SKOUTA.
Laboratoire de Synthèse, Structure et Réactivité de Molécules Phosphorées
associé au CNRS. Université Paul Sabatier F 31062 Toulouse
Lothar RIESEL and Dirk LINDEMANN
Humboldt - Universität zu Berlin - Institut für Anorganische Chemie
D-1040 Berlin

We describe the oxidation of **1** and **8** by means of CCl_4 in basic solutions.



1



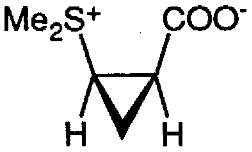
8

Tetrahedron Lett. **1992**, *33*, 2821

SYNTHESIS AND ABSOLUTE CONFIGURATION OF (+)-GONYAULINE: A MODULATING SUBSTANCE OF BIOLUMINESCENT CIRCADIAN RHYTHM IN THE UNICELLULAR ALGA *GONYAULAX POLYEDRA*

Hideshi Nakamura,* Masaaki Ohtoshi, Osamu Sampei, Yuri Akashi, and Akio Murai
Department of Chemistry, Faculty of Science,
Hokkaido University, Sapporo 060, Japan

Enatiomerically pure natural (+)-gonyauline was synthesized and absolute configuration was established as 1*R*, 2*R*.

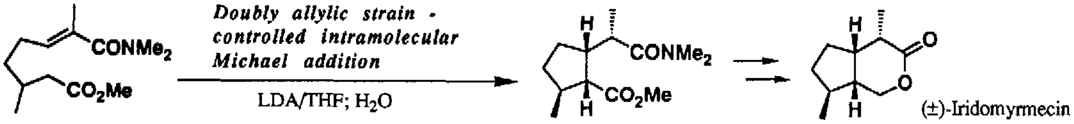


Natural (+)-gonyauline

Tetrahedron Lett. **1992**, *33*, 2823

DOUBLY ALLYLIC STRAIN - CONTROLLED DIASTEREOSELECTIVE INTRAMOLECULAR MICHAEL ADDITION AND A SYNTHESIS OF (±)-IRIDOMYRMECIN

Yasushi Yokoyama* and Keiji Tsuchikura
Department of Materials Science, Faculty of Engineering, Yokohama National University, Tokiwadai, Hodogaya-ku, Yokohama 240 Japan



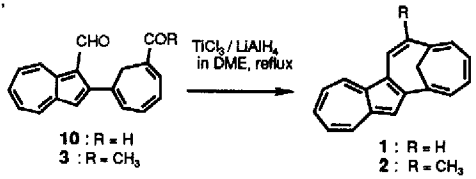
Tetrahedron Lett. **1992**, *33*, 2825

SYNTHESIS AND PROPERTIES OF AZULENO[2,1-a]-3,8-METHANO[10]ANNULENE AND ITS 2-METHYL DERIVATIVE

Shigeyasu Kuroda,* Jun-ichi Yazaki, Sunao Maeda, Kazuo Yamazaki, masaki Yamada, Ichiro Shimao, and Masafumi Yasunami†

Department of Materials Science and Engineering, Faculty of Engineering, Toyama University, 3190 Gofuku Toyama, 930, Japan, †Department of Chemistry, Faculty of Science, Tohoku University, Aobaku, Sendai, 980, Japan.

The new cata-condensed azuleno-bridged[10]annulenes were synthesized. The ^{1}H NMR spectra showed the contribution of peripheral 18-π electron conjugation in accordance with the MIND/3 calculation.



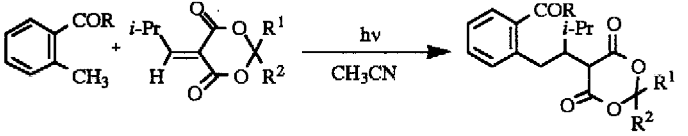
Tetrahedron Lett. **1992**, *33*, 2829

PHOTOCHEMISTRY OF *o*-METHYL-SUBSTITUTED AROMATIC KETONE WITH 5-ALKYLIDENE-1,3-DIOXANE-4,6-DIONE DERIVATIVES

Takashi Tsuno* and Kunio Sugiyama

Department of Industrial Chemistry, College of Industrial Technology, Nihon University, Narashino-shi, Chiba 275, Japan

Photolyses of *o*-methylacetophenone or *o*-methylbenzophenone with 5-isobutylidene-1,3-dioxane-4,6-diones produced novel adducts, bonding between the β-carbon of the acylales and *o*-methyl carbon of the aromatic ketones.



Tetrahedron Lett. **1992**, *33*, 2833

Synthetic Studies on Spider Neurotoxins (I): Total Synthesis of Nephilatoxins (NPTX-9 and NPTX-11), New Neurotoxins of Joro Spider (*Nephila clavata*)

Masaaki Miyashita,*[a] Hideaki Sato,[b] Akira Yoshikoshi,[b] Takashi Toki,[c] Masayuki Matsushita,[a] Hiroshi Irie,[a] Tetsuji Yanami,[c] Yasuo Kikuchi,[d] Chikahisa Takasaki,[d] and Terumi Nakajima[e]

[a]Faculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki 852, Japan; [b]Chemical Research Institute of Non-Aqueous Solutions, Tohoku University, Sendai 980, Japan; [c]Research Center, Daicel Chemical Industries, LTD., Himeji 671-12, Japan; [d]Department of Chemistry, Tohoku University, Sendai 980, Japan; [e]Faculty of Pharmaceutical Sciences, University of Tokyo, Tokyo 113, Japan

---

Tetrahedron Lett. **1992**, *33*, 2837

Synthetic Studies on Spider Neurotoxins (II): Total Synthesis of Nephilatoxins (NPTX-10 and NPTX-12), New Neurotoxins of Joro Spider (*Nephila clavata*)

Masaaki Miyashita,*[a] Hideaki Sato,[b] Masayuki Matsushita,[a] Youko Kusumegi,[a] Takashi Toki,[c] Akira Yoshikoshi,[b] Tetsuji Yanami,[c] Yasuo Kikuchi,[d] Chikahisa Takasaki,[d] Terumi Nakajima,[e] and Hiroshi Irie[a]

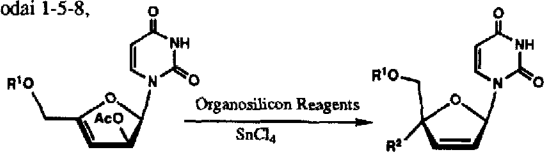
[a]Faculty of Pharmaceutical Sciences, Nagasaki University, Nagasaki 852, Japan; [b]Chemical Research Institute of Non-Aqueous Solutions, Tohoku University, Sendai 980, Japan; [c]Research Center, Daicel Chemical Industries, LTD., Himeji 671-12, Japan; [d]Department of Chemistry, Tohoku University, Sendai 980, Japan; [e]Faculty of Pharmaceutical Sciences, University of Tokyo, Tokyo 113, Japan

Tetrahedron Lett. **1992**, *33*, 2841

Stereoselective Synthesis of 4'-*C*-Branched 2',3'-Didehydro-2',3'-dideoxy Nucleosides Based on $SnCl_4$-Promoted Allylic Rearrangement

Kazuhiro Haraguchi, Hiromichi Tanaka, Yoshiharu Itoh, Shigeru Saito, and Tadashi Miyasaka*
School of Pharmaceutical Sciences, Showa University, Hatanodai 1-5-8,
Shinagawa-ku, Tokyo 142, Japan

4'-*C*-Branched 2',3'-didehydro-2',3'-dideoxy uracil nucleosides were synthesized through an allylic rearrangement of a 3',4'-unsaturated derivative. The reaction proceeds in a highly stereoselective manner by the use of $SnCl_4$ as a Lewis acid without forming an elimination side product.



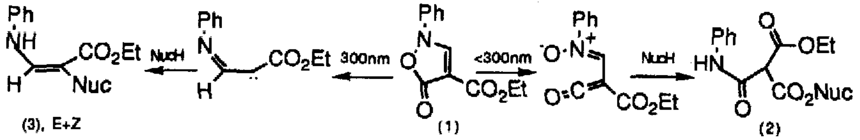
R^1= TBDPS, R^2= a carbon substituent

Tetrahedron Lett. **1992**, *33*, 2845

The Photolysis Of Ethyl 5-Oxo-2-Phenyl-2,5-Dihydroisoxazole-4-Carboxylate In Amines And Alcohols

Kiah H. Ang and Rolf H. Prager*
School of Physical Sciences, Flinders University, G.P.O. Box 2100, Adelaide, South Australia 5001.

Photolysis of isoxazolones in alcohols and amines occures by two pathways, involving a ketene and carbene intermediate respectively.

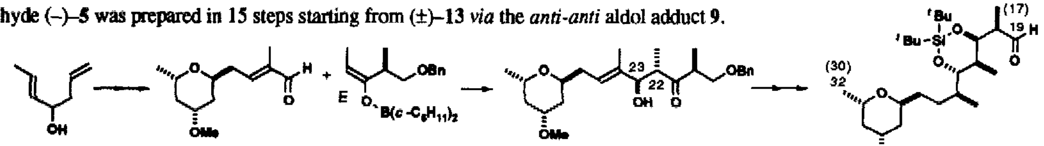


Tetrahedron Lett. **1992**, *33*, 2847

A STEREOCONTROLLED SYNTHESIS OF A C_{19}–C_{32} / C_{17}–C_{30} SEGMENT FOR SWINHOLIDE A AND MISAKINOLIDE A, CYTOTOXIC DIMERIC MACROLIDES FROM *THEONELLA SWINHOEI*.

Ian Paterson and John G. Cumming, University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK*

The aldehyde (–)-**5** was prepared in 15 steps starting from (±)-**13** *via* the *anti-anti* aldol adduct **9**.

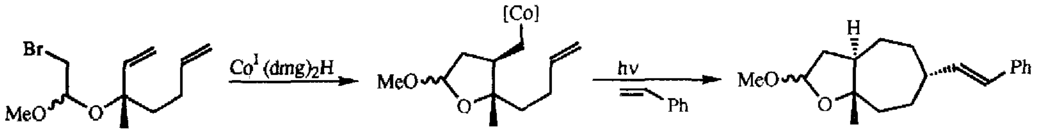


(±)-13 **11** **17** **9** ≥ 97% ds for AA (–)-**5**

Tetrahedron Lett. **1992**, *33*, 2851

CASCADE COBALT GROUP TRANSFER - RADICAL TRAPPING - TANDEM RADICAL CYCLISATION REACTIONS IN SYNTHESIS

Amjad Ali, David C. Harrowven and Gerald Pattenden*
Department of Chemistry, The University, Nottingham NG7 2RD

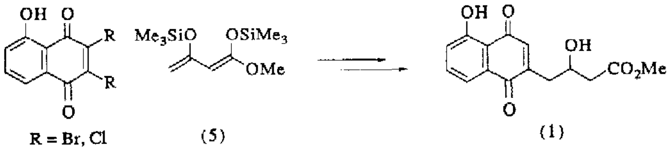


Tetrahedron Lett. **1992**, *33*, 2855

A NEW SYNTHESIS OF THE NAPHTHOPYRAN ANTIBIOTICS

Donald W. Cameron,* Ian T. Crosby and (the late) Geoffrey I. Feutrill
School of Chemistry, University of Melbourne, Parkville, Victoria 3052, Australia.

A known precursor (1) of the naphthopyran antibiotics has been synthesised from halonaphthoquinones by reaction with the diene (5) and subsequent elaboration.

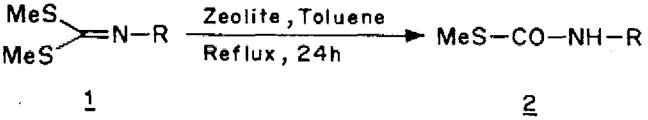


Tetrahedron Lett. **1992**, *33*, 2857

A FACILE GENERAL METHOD FOR THE PREPARATION OF S-METHYLTHIOLCARBAMATES USING ZEOLITE CATALYSTS

T. Indrasena Reddy, B.M. Bhawal and S. Rajappa*
Division of Organic Chemistry: Synthesis
National Chemical Laboratory, Pune 411 008, India.

Abstract: Dimethyl carbonimidodithioates derived from various primary amines and amino acid esters (1) can be converted to S-methyl thiolcarbamates (2) by H-mordenite or H-Y zeolite catalysis in moderate to good yields.

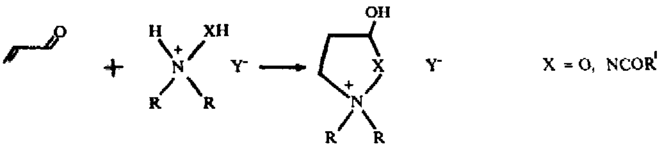


Tetrahedron Lett. **1992**, *33*, 2861

SYNTHESIS OF 2,2-DIALKYL-5-HYDROXYISOXAZOLIDINUM AND 1,1-DIALKYL-3-HYDROXYPYRAZOLIDINUM SALTS

K.N. Zelenin*, I.P. Bezhan, I.V. Lagoda. Military Medical Academy, St. Petersburg, 194175, Russia.

Salts of N,N-dialkylhydroxylamines and β-dialkylhydrazides react with acrolein to give 2,2-dialkyl-5-hydroxyisoxazolidinum and 1,1-dialkyl-3-hydroxypyrazolidinum salts

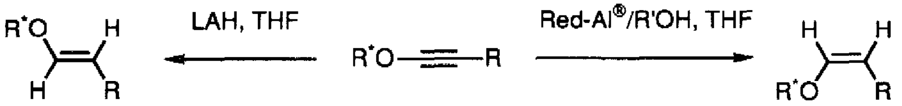


Tetrahedron Lett. **1992**, *33*, 2863

DIVERGENT STEREOSELECTIVE SYNTHESIS OF *(E)* AND *(Z)* *O*-ALKYL ENOL ETHERS

Lluís Solà, Jaume Castro, Albert Moyano*, Miquel A. Pericàs* and Antoni Riera.
Departament de Química Orgànica, Universitat de Barcelona, Martí i Franquès 1-11, 08028 Barcelona, Spain.

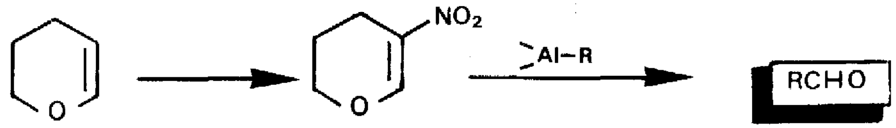
Either (*E*)- or (*Z*)-enol ethers can be stereoselectively obtained by reduction of alkynyl ethers with hydridoaluminates.



Tetrahedron Lett. **1992**, *33*, 2867

3-Nitro-5,6-dihydro-4H-Pyran, a Latent -CHO Equivalent: A New Synthesis of Aldehydes

R. Menicagli, C. Malanga, V. Guagnano
Dipartimento di Chimica e Chimica Industriale and Centro di Studio del CNR per le Macromolecole Stereordinate ed Otticamente Attive, Via Risorgimento 35, 56126 Pisa, Italy.

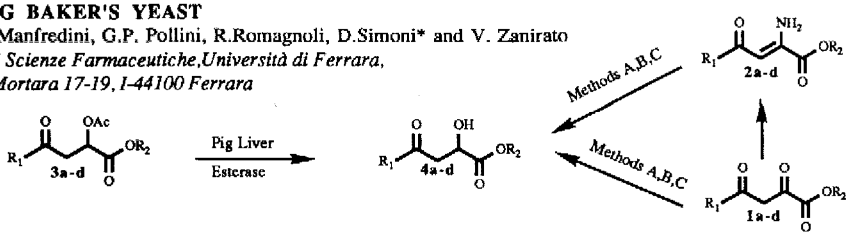


R = Alkyl, Alkenyl

Tetrahedron Lett. **1992**, *33*, 2871

REGIO- AND ENANTIOSELECTIVE BIOREDUCTIONS OF ETHYL 2,4-DIOXO ALCANOATES AND γ-KETO-α-ENAMINO ESTERS WITH FERMENTING BAKER'S YEAST

P.G.Baraldi, S.Manfredini, G.P. Pollini, R.Romagnoli, D.Simoni* and V. Zanirato
Dipartimento di Scienze Farmaceutiche,Università di Ferrara,
Via Fossato di Mortara 17-19, I-44100 Ferrara



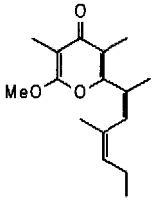
Tetrahedron Lett. **1992**, *33*, 2875

PLACIDENES: CYERCENE-LIKE POLYPROPIONATE γ-PYRONES FROM THE MEDITERRANEAN ASCOGLOSSAN MOLLUSC *PLACIDA DENDRITICA*

Rosa Rita Vardaro, Vincenzo Di Marzo and Guido Cimino

Istituto per la Chimica di Molecole di Interesse Biologico del CNR
Via Toiano n. 6, 80072, Arco Felice, Napoli, Italy

The first chemical study on a Stiligeridae ascoglossan has led to the characterization of four new polypropionates, e.g. *iso*-placidene-A, from *Placida dendritica.*



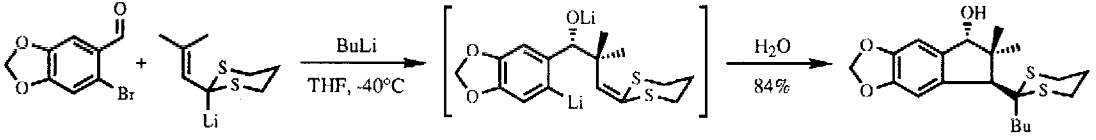
iso-placidene-A

Tetrahedron Lett. **1992**, *33*, 2879

THE ADDITION OF ORGANOLITHIUMS TO KETENETHIOACETALS: A NEW CYCLOPENTANNULATION SEQUENCE LEADING TO INDANES.

David C. Harrowven
Department of Chemistry, University Park, Nottingham, NG7 4RD.

A simple, diastereoselective 'one pot' cyclopentannulation sequence is described using a tandem alkylation protocol
e.g.

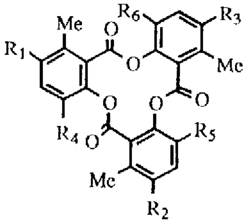


Tetrahedron Lett. **1992**, *33*, 2883

HALOGENATED ANALOGS OF TRI-*O*-THYMOTIDE (TOT) AND TRI-3-(2-BUTYL)-6-METHYLSALICYLIDE (TSBS): SYNTHESIS AND CLATHRATION STUDIES.

Jallal M. Gnaim, Philip M. Keehn, and Bernard S. Green
Department of Pharmaceutical Chemistry, The School of Pharmacy, The Hebrew University, P.O. Box 12065, Jerusalem, 91120, Israel, Department of Chemistry, Brandeis University, Waltham, Massachusetts 02254.

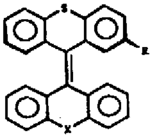
Halogenated TOT and TSBS have been synthesized. Clathration studies indicate that these halogenated TOT analogs do not form clathrates. Reductive removal of the halogen provided a new entry to TOT-based host molecules.



Tetrahedron Lett. **1992**, *33*, 2887

RESOLUTION OF STERICALLY OVERCROWDED ETHYLENES; A REMARKABLE CORRELATION BETWEEN BOND LENGTHS AND RACEMIZATION BARRIERS.

Ben L. Feringa*, Wolter F. Jager and Ben de Lange, Department of Organic Chemistry, University of Groningen, Nijenborgh 16, 9747 AG Groningen, The Netherlands.



X = S, $C(CH_3)_2$, NCH_3, O
R = CH_3
racemization barriers < 20.0 - 27.4 kcal.mol^{-1}

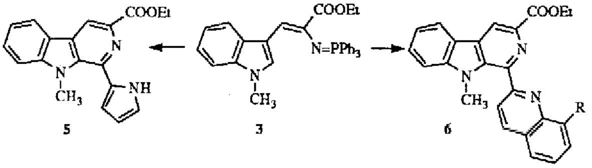
The first examples of thermally stable optically active sterically overcrowded ethylenes are described.

Tetrahedron Lett. **1992**, *33*, 2891

Iminophosphorane-Mediated Synthesis of 1-Substituted-β-Carbolines: Investigative Studies on the Preparation of Alkaloids Lavendamycin and Eudistomins Framework

Pedro Molina*, Pilar M. Fresneda, Mercedes Cánovas
Departamento de Química Orgánica, Universidad de Murcia
Campus de Espinardo, 30071 Murcia, Spain.

Iminophosphorane 3 reacts with 2-formylpyrrole and 2-formylquinolines to give Eudistomins 5 and Lavendamycin 6 derivatives.



Tetrahedron Lett. **1992**, *33*, 2895

STEREOSELECTIVE RING OPENING OF CHIRAL OXAZOLIDINES BY REFORMATSKY REAGENTS: AN ENANTIOSELECTIVE ENTRY TO β-AMINO ESTERS.

C. Andrés, A. González, R. Pedrosa*, A. Pérez-Encabo. Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Valladolid. Dr. Mergelina s/n, 47011-Valladolid. Spain

Nucleophilic ring opening of chiral oxazolidines **2a-f** by Reformatsky reagent, lead regioselectively to **3a-f**, that after debenzylation yield β-amino esters **4a-f** in moderate to very good enantiomeric excesses (60-92%).