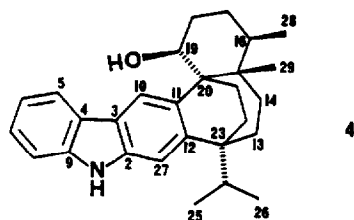


GRAPHICAL ABSTRACTS

THE STRUCTURE OF TUBINGENSIN B: A CYTOTOXIC CARBAZOLE ALKALOID FROM THE SCLEROTIA OF *ASPERGILLUS TUBINGENSIS*
 M.R. TePaske and J.B. Gloer*, Department of Chemistry, University of Iowa, Iowa City, Iowa, 52242, and D.T. Wicklow and P.F. Dowd, ARS, Northern Regional Research Center, USDA, Peoria, IL, 61604

Tubingensin B (4), a cytotoxic indole diterpenoid metabolite, was isolated from the sclerotia of the fungus *Aspergillus tubingensis*, and its structure was assigned through NMR studies.

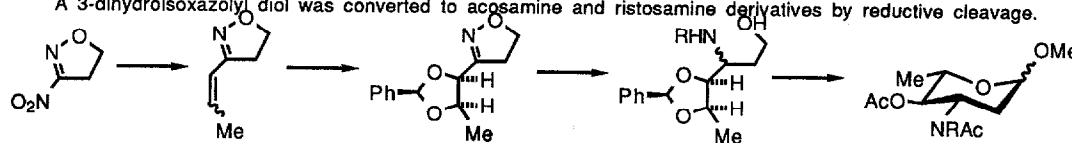
Tetrahedron Lett. 30, 5965 (1989)



A DIHYDROISOXAZOLE-BASED ROUTE TO 2,3,6-TRIDEOXY-3-AMINOHEXOSE DERIVATIVES

P. A. Wade*, J. A. Rao, J. F. Berezna, and C.-K. Yuan, Dept. of Chemistry, Drexel University, Philadelphia, PA 19104, U.S.A.

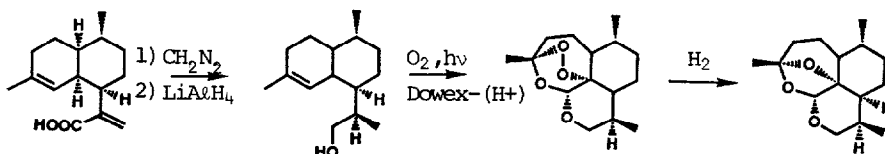
A 3-dihydroisoxazolyl diol was converted to aminosamine and ristosamine derivatives by reductive cleavage.



Tetrahedron Lett. 30, 5969 (1989)

A SHORT AND STEREOSPECIFIC SYNTHESIS OF (+)-DEOXO-ARTEMISININ AND (-)-DEOXODESOXYARTEMISININ

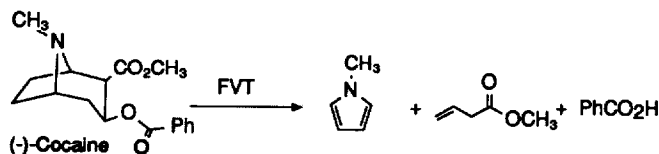
Mankil Jung*, Xun Li, Daniel A. Bustos, Hala N. ElSohly, and James D. McChesney
 School of Pharmacy, University of Mississippi, University, MS 38677



Tetrahedron Lett. 30, 5973 (1989)

The Flash Vacuum Thermolysis of (-)-Cocaine

Nicholas J. Sisti, Joanna S. Fowler and Frank W. Fowler
 Departments of Chemistry, State University of New York at Stony Brook, Stony Brook, New York 11790 and Brookhaven National Laboratory, Upton, New York 11973



Tetrahedron Lett. 30, 5977 (1989)

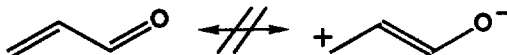
Tetrahedron Lett. 30,5981 (1989)

CHARGE DENSITY DISTRIBUTION IN ACROLEIN, BUTADIENE AND VINYLAMINE. UNIMPORTANCE OF DIPOLAR RESONANCE STRUCTURES IN DETERMINING THE GROUND STATE CHARGE DISTRIBUTION.

Kenneth B. Wiberg* and Robert E. Rosenberg

Department of Chemistry, Yale University, New Haven, Connecticut 06511

A study of the charge density distribution in acrolein, butadiene and vinylamine shows that the dipolar resonance structures have little importance in determining the ground state charge distributions.

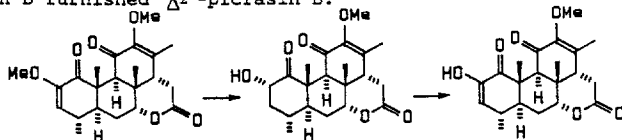


Tetrahedron Lett. 30,5985 (1989)

A PARTIAL SYNTHESIS OF PICRASIN B AND Δ^2 -PICRASIN B

Kenji Kawada, MoonSun Kim, and David S. Watt,
Department of Chemistry, Division of Medicinal Chemistry,
University of Kentucky, Lexington, KY. 40506

The reductive demethylation of the O-methylidiosphenol group in the A ring of quassin with iodotrimethylsilane provided picrasin B, and Swern oxidation of picrasin B furnished Δ^2 -picrasin B.

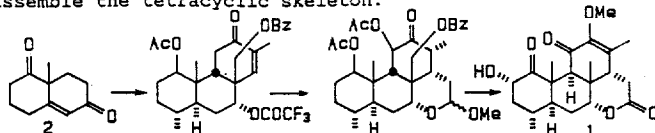


Tetrahedron Lett. 30,5989 (1989)

AN ENANTIOSELECTIVE TOTAL SYNTHESIS OF (+)-PICRASIN B

Kenji Kawada, MoonSun Kim, and David S. Watt,
Department of Chemistry, Division of Medicinal Chemistry,
University of Kentucky, Lexington, KY. 40506

An enantioselective total synthesis of (+)-picrasin B (1) was completed from the R(-)-enantiomer of the Wieland-Miescher ketone (2) using an A-AB-ABC-ABCD sequence to assemble the tetracyclic skeleton.



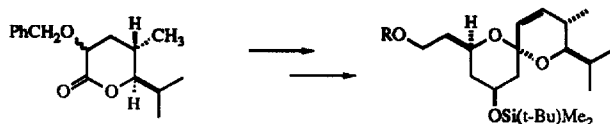
Tetrahedron Lett. 30,5993 (1989)

Synthesis of the Spiroketal Fragment of Avermectin B_{1b}

Michael T. Crimmins* and Rosemary O'Mahony

Department of Chemistry; University of North Carolina; Chapel Hill, North Carolina 27599-3290

A new synthesis of the spiroketal fragment of the potent antiparasitic agent, avermectin B_{1b}, utilizing an improved procedure for the preparation of unsaturated spiroketals from lactones is described.



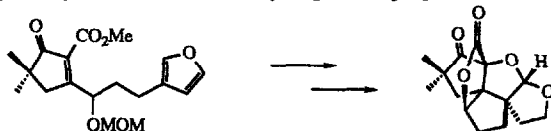
Intramolecular Enone-Furan Photocycloadditions:
Studies Toward The Synthesis of Ginkgolides A and B

Michael T. Crimmins* and James B. Thomas

Department of Chemistry; University of North Carolina; Chapel Hill, North Carolina 27599-3290

Tetrahedron Lett. 30, 5997 (1989)

A furan-enone photocycloaddition is the key step in the preparation of a model for ginkgolides A and B.

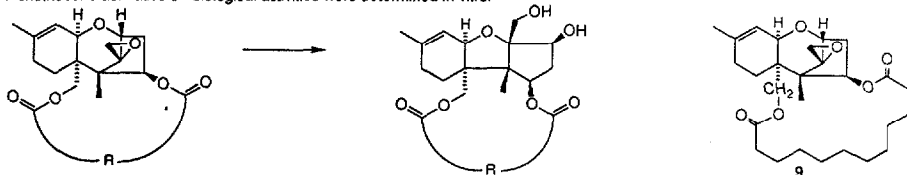


APOTRICHOTHECENE REARRANGEMENT IN MACROCYCLIC TRICHOTHECENE DERIVATIVES

N. Jeker and Ch. Tamm*, Institute of Organic Chemistry, University of Basel, St. Johanns-Ring 19, CH-4056 Basel, Switzerland

From verucarin A, J and toridin A the corresponding macrocyclic apotrichothecenes were prepared, as well as the macrocyclic trichothecene derivative **9** - biological activities were determined *in vitro*.

Tetrahedron Lett. 30, 6001 (1989)



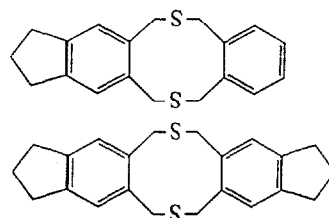
CYCLOPHANES, 33
2,11-DITHIA-[3.3](5,6)INDANO-ORTHO CYCLOPHANE
AND 2,11-DITHIA-[3.3](5,6)INDANOCYCLOPHANE
SYNTHESIS, DNMR AND X-RAY STRUCTURE ANALYSIS

Graham Bodwell, Ludger Ernst, Henning Hopf* and Peter G. Jones

Institut für Organische Chemie
 Universität Braunschweig, Hagenring 30
 D-3300 Braunschweig, Fed. Rep. of Germany

Tetrahedron Lett. 30, 6005 (1989)

Synthesis, DNMR and X-ray structural analysis of the title compounds

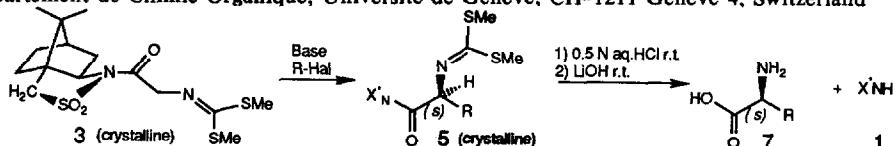


ASYMMETRIC ALKYLATIONS OF A SULTAM-DERIVED GLYCINATE EQUIVALENT: PRACTICAL PREPARATION OF ENANTIOMERICALLY PURE α -AMINO ACIDS

Wolfgang Oppolzer*, Robert Moretti and Silvia Thomi

Département de Chimie Organique, Université de Genève, CH-1211 Genève 4, Switzerland

Tetrahedron Lett. 30, 6009 (1989)



Deprotonation/alkylation/mild hydrolysis **3** \rightarrow **5** \rightarrow **7** gave α -amino acids **7** (100% e.e) in high overall yield.

ENANTIOSELECTIVE SYNTHESIS OF OPTICALLY PURE NATURAL S(+) OR UNNATURAL R(-) DABA.

Tetrahedron Lett. 30, 6011 (1989)

A. Solladié-Cavallo and M.C. Simon; E.H.I.C.S., 1 rue B. Pascal, 67008, Strasbourg.

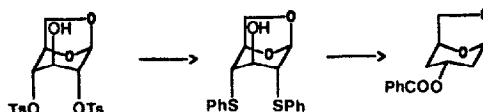
Optically pure S(+) DABA (100% A.I. in the key step) is obtained in more than 80% yield. A model is proposed to explain the dependence of asymmetric induction on the nature of the counter ion (Li^+ , Mg^{++} , Bu_4N^+).

MEVINIC ACIDS AND ANALOGS : A NOVEL EFFICIENT ROUTE TO CHIRAL SYNTHONS FROM 1,6-ANHYDRO-D-GLUCOSE

Tetrahedron Lett. 30, 6015 (1989)

C. DAVID, J.P. GESSON and J.C. JACQUESY
Laboratoire de Chimie XII, Unité associée au CNRS
40, Avenue du Recteur Pineau
86022 POITIERS Cedex (France)

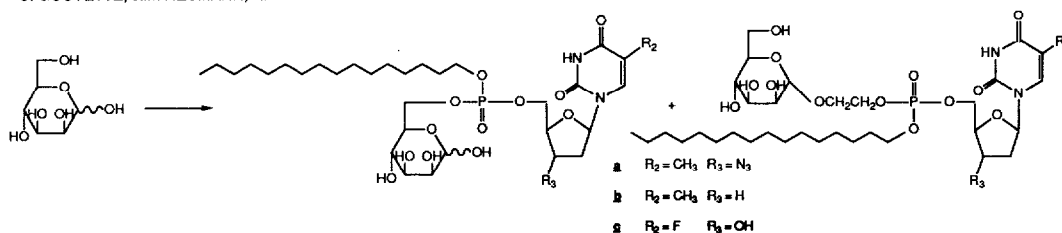
2,4-dideoxygenation of 1,6-anhydro-D-Glucose is carried out in 3 steps by displacement of the corresponding ditosylate by PhSNa followed by Raney Ni hydrogenolysis.



6- and 1- substituted mannosyl phosphotriesters as lipophilic macrophage-targeted carriers of antiviral nucleosides

Tetrahedron Lett. 30, 6019 (1989)

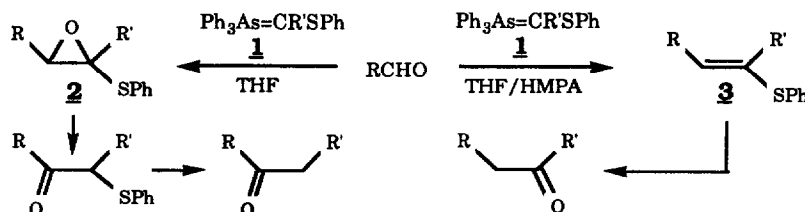
C. GOUYETTE, J.M. NEUMANN, R. FAUVE and T. HUYNH-DINH



HOMOLOGATION OF ALDEHYDES USING (PHENYLTHIOMETHYLENE) TRIPHENYLARSORANE.

Tetrahedron Lett. 30, 6023 (1989)

B. BOUBIA^a, C. MIOSKOWSKI^{a*}, S. MANNA^b and J.R. FALCK^{b,a} ^aUniversité Louis Pasteur, Laboratoire associé au CNRS, Faculté de Pharmacie, 74 route du Rhin BP 24, 67401 Illkirch FRANCE ^bDepartments of molecular Genetics and Pharmacology, University of Texas Southwestern Medical Center, Dallas, Texas 75235 U.S.A.



Tetrahedron Lett., 30, 6027 (1989)

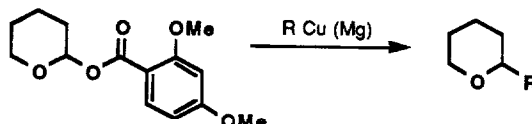
Direct Anomeric Substitution of Pyranyl Esters Using Organocopper Reagents

V. Bolitt¹, C. Mioskowski*¹, J.R. Falck*²

¹Université Louis Pasteur, Faculté de Pharmacie, 74 route du Rhin, F-67401 STRASBOURG

²Departments of Molecular Genetics and Pharmacology, University of Texas Health Center, DALLAS, TX 75235, USA.

Various 2-substituted tetrahydropyrans were obtained with good yields by direct anomeric substitution of tetrahydropyranyl 2,4-dimethoxybenzoate, using Grignard derived organocopper reagents.



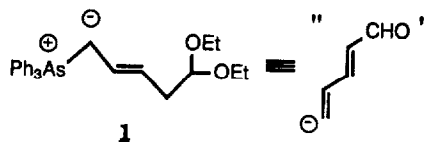
Tetrahedron Lett., 30, 6031 (1989)

(5,5-DIETHOXY-2-(E)-PENTENYL) TRIPHENYLARSONIUM YLIDE: A NEW SYNTHETIC EQUIVALENT OF δ-FORMYL BUTADIENYL ANION

P. CHABERT, C. MIOSKOWSKI* Université Louis Pasteur, Laboratoire de Chimie Bio-organique associé au CNRS

Faculté de Pharmacie, 74 route du Rhin BP 24 F-67401 STRASBOURG

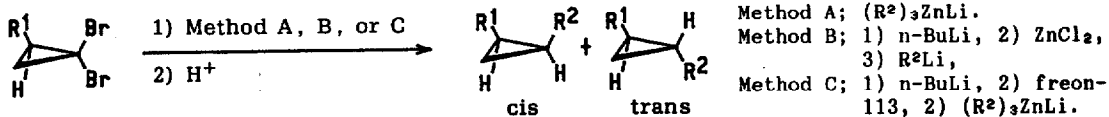
The title arsonium ylide permits a five carbon homologation of aldehydes to the corresponding 6-hydroxy-2,4-(E)-dienals. This new reagent can be considered as a new δ-formyl butadienyl anion.



Tetrahedron Lett., 30, 6035 (1989)

GENERATION AND ALKYLATION REACTION OF LITHIUM 1-HALOCYCLOPROPYLZINCATE

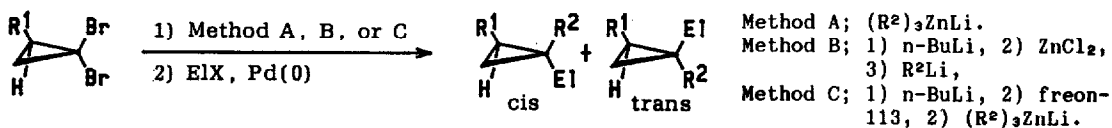
Toshiro Harada, Kazuhiro Hattori, Takeshi Katsuhira, and Akira Oku,* Department of Chemistry, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606, Japan



Tetrahedron Lett., 30, 6039 (1989)

STERESELECTIVE SYNTHESIS OF gem-DISUBSTITUTED CYCLOPROPANES FROM gem-DIBROMOCYCLOPROPANES

Toshiro Harada, Kazuhiro Hattori, Takeshi Katsuhira, and Akira Oku,* Department of Chemistry, Kyoto Institute of Technology, Matsugasaki, Sakyo-ku, Kyoto 606, Japan

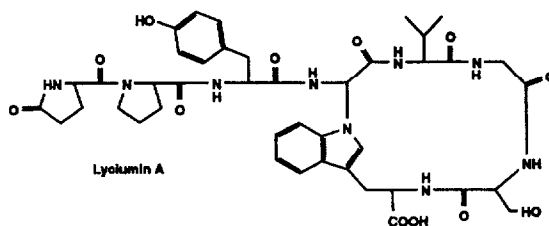


Tetrahedron Lett. 30,6041(1989)

STRUCTURES OF ANTI-ACE AND -RENIN PEPTIDES FROM LYCII RADICIS CORTEX

S.Yahara,^a C.Shigeyama,^a T.Nohara,^a H.Okuda,^b K.Wakamatsu,^c and T.Yasuhara^c

Fac. of Pharm. Sci., Kumamoto Univ.,^a
Kumamoto 862, Sch. of Med., Ehime Univ.,^b
Ehime 791-02, and Tsukuba Res. Lab.,
Takeda Chem. Ind., Ltd.,^c Ibaraki-ken 300-42,
Japan

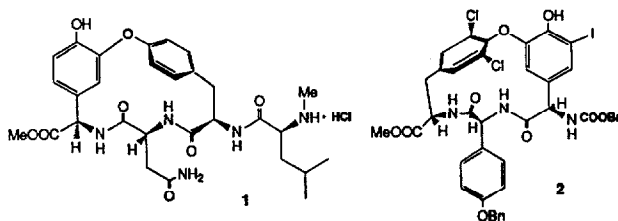


Tetrahedron Lett. 30,6043(1989)

**SYNTHETIC STUDY ON VANCOMYCIN:
SYNTHESIS OF MACROCYCLIC TETRAPEPTIDE
AS A PLAUSIBLE ACTIVE CENTER**

Y. Suzuki, S. Nishiyama, and S. Yamamura
Department of Chemistry, Faculty of Science and
Technology, Keio University, Hiyoshi, Yokohama,
JAPAN

Two oligopeptides (1, 2) have been synthesized in
connection with vancomycin.

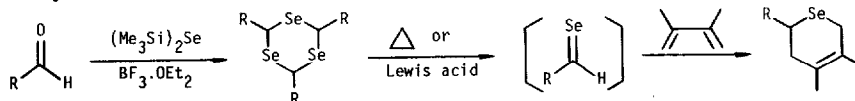


Tetrahedron Lett. 30,6047(1989)

**NOVEL SYNTHESIS OF 1,3,5-TRISELENANES FROM ALDEHYDES, AND
NOVEL GENERATION OF SELENOALDEHYDES BY FRAGMENTATION OF
1,3,5-TRISELENANES**

Yuji Takikawa,* Akira Uwano, Hiroyuki Watanabe, Masaki Asanuma, and Kazuaki Shimada
Department of Applied Chemistry, Faculty of Engineering, Iwate University, Morioka 020, Japan

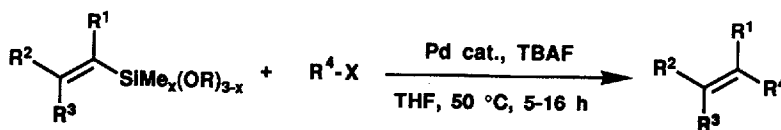
Reaction of aldehydes with $(\text{Me}_3\text{Si})_2\text{Se}$ in the presence of Lewis acid afforded 1,3,5-triselenanes via selenoaldehydes. Novel and convenient generation of selenoaldehydes was also achieved by thermally- or Lewis acid-induced fragmentation of 1,3,5-triselenanes.



Tetrahedron Lett. 30,6051(1989)

**PALLADIUM-CATALYZED CROSS-COUPLING
REACTION OF ALKENYLALKOXY-SILANES WITH
ARYL AND ALKENYL HALIDES IN THE PRESENCE OF A FLUORIDE ION**

Kohei Tamao,* Kenji Kobayashi, and Yoshihiko Ito*
Department of Synthetic Chemistry, Faculty of Engineering, Kyoto University, Kyoto 606, Japan

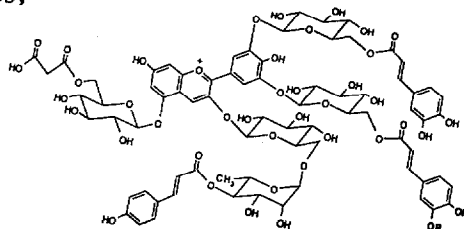


Tetrahedron Lett. 30,6055 (1989)

STRUCTURE OF LOBELININ A AND B, NOVEL ANTHOCYANINS
ACYLATED WITH THREE AND FOUR DIFFERENT ORGANIC ACIDS,
RESPECTIVELY

Tadao Kondo*, Junko Yamashiki, Kiyoko
Kawahori and Toshio Goto*
Chemical Instrument Center and Laboratory
of Organic Chemistry, Faculty of Agriculture,
Nagoya University, Chikusa, Nagoya 464, Japan

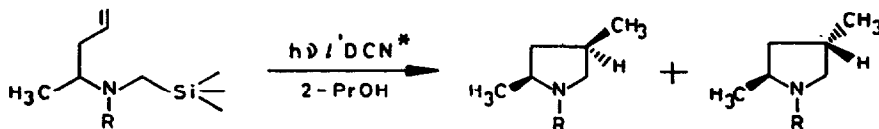
Lobelinin A (R = H) and lobelinin B (R = Me)
were isolated from Lobelia erinus flower.



Tetrahedron Lett. 30,6059 (1989)

PHOTOINDUCED SET GENERATION OF α -AMINO RADICALS :
A PRACTICAL METHOD FOR THE SYNTHESIS OF PYRRO-
LIDINES AND PIPERIDINES

G. Pandey, G. Kumaraswamy and U.T. Bhalerao
Indian Institute of Chemical Technology, Hyderabad 500 007,
India.

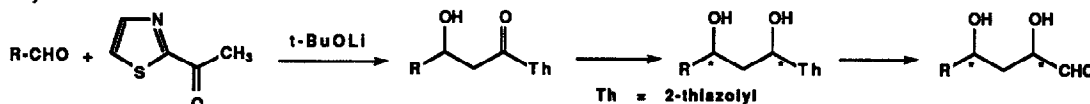


Tetrahedron Lett. 30,6063 (1989)

2-ACETYLTHIAZOLE AS A THREE-CARBON HOMOLOGATING REAGENT
OF ALDEHYDES. APPLICATION TOWARD THE SYNTHESIS OF AMINO HEXOSES FROM L-SERINAL.

A. Dondoni,* G. Fantin, M. Fogagnolo
Dipartimento di Chimica, Laboratorio di Chimica Organica, Università, Ferrara, Italy

2-Acetylthiazole acts as α -hydroxypropanal β -anion synthon equivalent for the construction of *syn*- and *anti*- α,γ -dihydroxybutanal units.



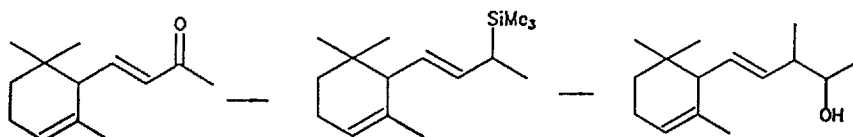
Tetrahedron Lett. 30,6067 (1989)

ALLYLSILANES DERIVED FROM α - AND β -IONONE.

SYNTHESIS AND UNUSUAL REACTIVITY WITH ELECTROPHILES

Elsabetta Azzari, Cristina Faggi, Nedo Gelsomini and Maurizio Taddei*

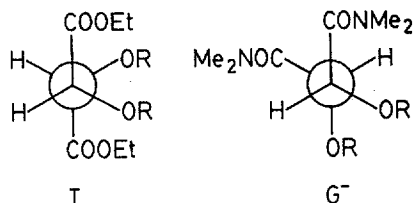
Dipartimento di Chimica Organica "Ugo Schiff", Università di Firenze, Via G. Capponi 9 I-50121 Firenze Italy



**CONFORMATIONAL DISPARITY OF
(R,R)-TARTARIC ACID ESTERS AND AMIDES**

J. Gawronski, K. Gawronska and U. Rychlewska
Faculty of Chemistry, A. Mickiewicz University, 60780 Poznań, Poland

The exciton chirality method reveals different conformations of O,O-dibenzoyl (R=Bz) derivatives of (R,R)-tartaric acid esters (T) and amides (G⁻). The gauche (G⁻) conformation is also found in the solid state for the amides (R=H or Bz) by X-ray analysis.



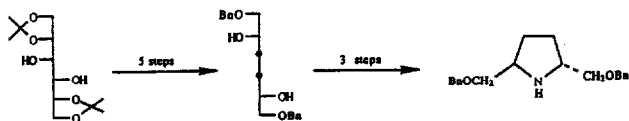
Tetrahedron Lett. 30, 6071 (1989)

**ASYMMETRIC SYNTHESIS OF
TRANS-(2R,5R)-BIS(BENZYLOXYMETHYL)PYRROLIDINE**

M. Marzi^a and D. Misić^b

a) Lab. Ricerca Chimica, Sigma Tau S.p.A., Via Pontina km 30,400, 00400 Pomezia (Italy)

b) Dip. Studi di Chim. e Tecnol. Sostanze Biologicamente Attive, Università "La Sapienza", P.le A. Moro 5, 00185 Roma (Italy)



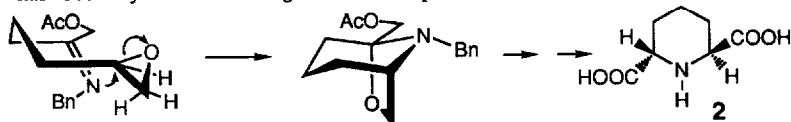
Tetrahedron Lett. 30, 6075 (1989)

**THE IMINE-EPOXIDE REARRANGEMENT IN THE FORMATION
OF TRANS-2,6-DISUBSTITUTED PIPERIDINES.**

A STEREOSELECTIVE SYNTHESIS OF (±)-TENERAIC ACID.

Harry H. Wasserman*, Karen Rodrigues and Roman Kucharczyk
Department of Chemistry, Yale University, New Haven, CT 06511 USA

Teneraic acid **2** has been synthesized using the imine-epoxide rearrangement.

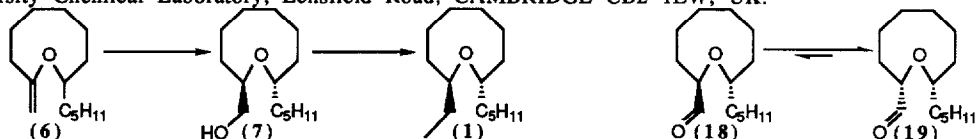


Tetrahedron Lett. 30, 6077 (1989)

**SYNTHETIC METHODOLOGY FOR THE PREPARATION OF
TRANS- AND CIS-2,9-DISUBSTITUTED OXONANES.**

Robert W. Carling, Neil R. Curtis and Andrew B. Holmes*

University Chemical Laboratory, Lensfield Road, CAMBRIDGE CB2 1EW, UK.



Trans-selective hydroboration of enol ether (6) gave oxonane (7), which was converted into (1), the carbon skeleton of obtusenyne. Epimerisation of (18) gave access to cis-oxonane (19).

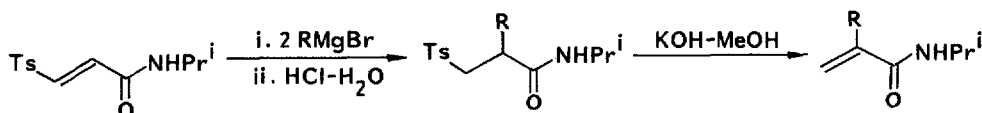
Tetrahedron Lett. 30, 6081 (1989)

**(E)-N-ISOPROPYL-3-TOSYLACRYLAMIDE: A NEW
 α -ACYLVINYL CATION EQUIVALENT IN THE
 SYNTHESIS OF α -SUBSTITUTED ACRYLAMIDES**

Carmen Nájera,* Balbino Mancheño, and Miguel Yus

División de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Alicante, Spain

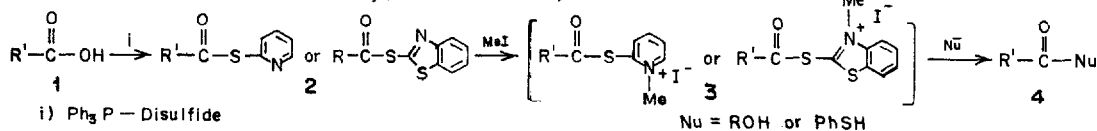
Tetrahedron Lett., 30, 6085 (1989)



**A New Mild Method for the Synthesis of Esters and Benzenethiol
 Esters by Activation of Pyridine-2-thiol or Benzothiazol-2-
 thiol Esters by Methyl Iodide**

D.Ravi and Hari Babu Mereyala*

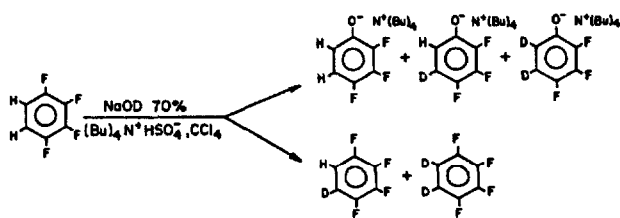
National Chemical Laboratory, Pune 411 008, India



Tetrahedron Lett., 30, 6089 (1989)

**NUCLEOPHILICITY vs. BASICITY OF
 THE HYDROXIDE ION UNDER
 EXTRACTIVE PHASE TRANSFER
 CATALYSIS CONDITIONS.**

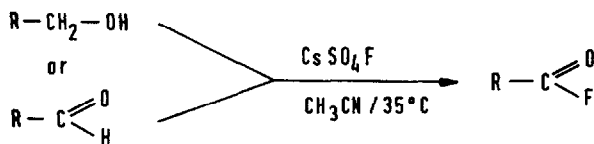
Feldman, D. and Rabinovitz, M.
 Department of Organic Chemistry
 The Hebrew University of Jerusalem
 Jerusalem 91904, Israel



Tetrahedron Lett., 30, 6091 (1989)

**MILD CONVERSION OF PRIMARY ALCOHOLS AND ALDEHYDES
 TO ACID FLUORIDES WITH CAESIUM FLUOROXYSULPHATE**

Stojan Stavber, Zdenka Planinšek and Marko Zupan, Laboratory of Organic and Bioorganic Chemistry,
 "Jožef Stefan" Institute and Department of Chemistry, University of Ljubljana, 61000 Ljubljana, Yugoslavia.



Tetrahedron Lett., 30, 6095 (1989)

R : C_nH_{2n-1} n = 5, 7, 9
 Ph; C₂H₄-Ph; C₆H₄-X
 1- or 2- naphthyl;
 9- phenanthryl