

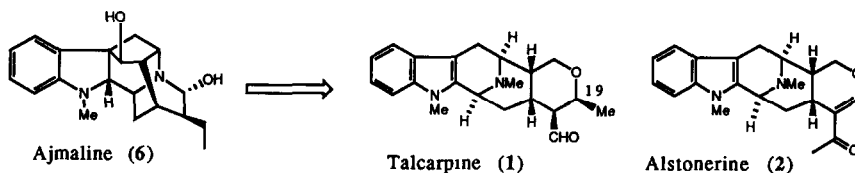
GRAPHICAL ABSTRACTS

Tetrahedron, 1991, 47, 1383

AN EFFICIENT SYNTHETIC PATHWAY TO THE MACROLINE-TYPE INDOLE ALKALOIDS, TALCARPINE AND ALSTONERINE FROM AJMALINE.

*Hiromitsu Takayama, Chada Phisalaphong, Mariko Kitajima, Norio Aimi, and Shin-ichiro Sakai**
Faculty of Pharmaceutical Sciences, Chiba University, 1-33, Yayoi-cho, Chiba 260, Japan

Chemical transformation of ajmaline (6) into two macroline-related indole alkaloids, talcarpine (1) and alstonerine (2), and determination at the C19 position in (1) were described.

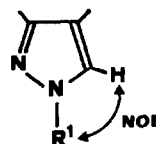


Tetrahedron, 1991, 47, 1393

NOE DIFFERENCE SPECTROSCOPY AS A VERSATILE TOOL FOR SPECTRAL AND STRUCTURAL ASSIGNMENT IN VARIOUS N-1 SUBSTITUTED PYRAZOLES

Wolfgang Holzer

Institute of Pharmaceutical Chemistry, University of Vienna
Währinger Straße 10, A-1090 Vienna, Austria

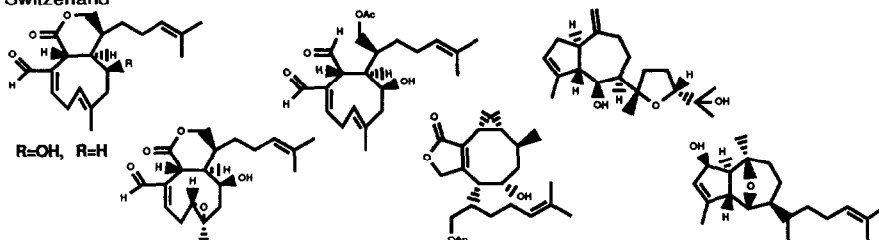


Homonuclear NOE difference spectroscopy is shown to be a versatile tool for structural and spectral assignments in various N-1 substituted pyrazole derivatives utilizing a through-space connection between the pyrazole H-5 and protons of the N-1 substituent.

Tetrahedron, 1991, 47, 1399

NEW XENICANE AND HYDRAZULENOID DITERPENES FROM AN AUSTRALIAN COLLECTION OF *DICTYOTA DIVARICATA*

Gabriele M. König, Anthony D. Wright and Otto Sticher
Department of Pharmacy, Swiss Federal Institute of Technology (ETH) Zurich, CH-8092 Zürich, Switzerland

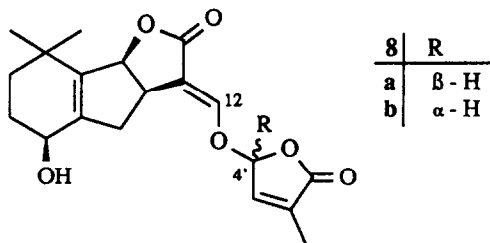


SYNTHESIS OF (+)-STRIGOL (8a), (+)-4'-EPI-STRIGOL (8b), AND THEIR ENANTIOMERS

EMMANUELLE SAMSON, KATJA FRISCHMUTH, ULRICH BERLAGE, UWE HEINZ, KURT HOBERT, PETER WELZEL*

Fakultät für Chemie der Ruhr-Universität
Postfach 102148, D-4630 Bochum (FRG)

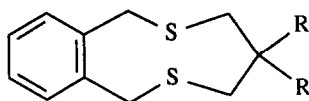
A short synthesis of the title compounds amenable to large-scale preparation is reported. Key feature is a simple resolution step.



CONFORMATIONAL ANALYSIS OF BENZOANNELATED NINE-MEMBERED RINGS - PART 1. 1,4,5,7-TETRAHYDRO-3H-2,6-BENZODITHIONIN DERIVATIVES

Barbara RYS^{a,*}, Helmut DUDDECK^b and Monika HIEGEMANN^b

(a) Department of Organic Chemistry, Jagiellonian University, PL-30060 Krakow, Karasia 3, Poland; (b) Ruhr-Universität Bochum, Fakultät für Chemie, Postfach 102148, D-4630 Bochum 1, FR Germany



	1	2	3	4	5
R/R	CH ₃ /CH ₃				

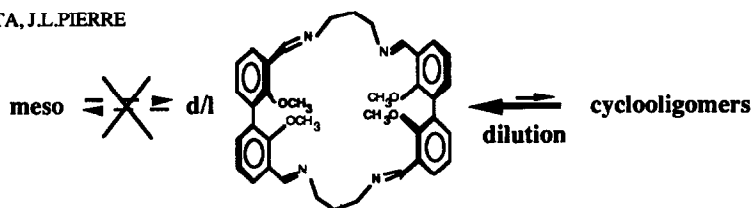
A SOLUTION STUDY OF AN IMINOCYCLOPHANE BEARING FOUR CONVERGENT METHOXYL GROUPS: SPONTANEOUS, REVERSIBLE OLIGOMERISATION WITHOUT EPIMERISATION

W.MONETA, P.BARET*, J.P.DUTASTA, J.L.PIERRE

L.E.D.S.S. (URA CNRS D0332)

Université Joseph Fourier ; BP 53X

38041 Grenoble cedex, France

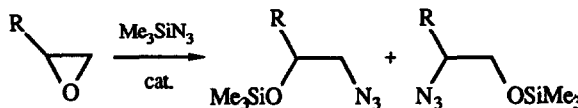


HIGHLY REGIO AND CHEMOSELECTIVE RING OPENING OF EPOXIDES WITH TRIMETHYLSILYL AZIDE IN THE PRESENCE OF ALUMINIUM ISOPROPOXIDE AND TITANIUM ISOPROPOXIDE

K.I.Sutowardoyo, M.Emziane, P.Lhoste and D.Sinou*

Laboratoire de Synthèse Asymétrique, Unité associée au C.N.R.S., Université Claude Bernard Lyon I, 43 Boulevard du 11 Novembre 1918, 69622 Villeurbanne Cédex, France.

The ring-opening of functionalized epoxides with trimethylsilyl azide in the presence of a catalytic amount of $Ti(O-iPr)_4$ or $Al(O-iPr)_3$ is stereospecific and highly regiospecific, leading generally to the formation of the carbon-azido bond on the less substituted carbon.



MICROBIAL TRANSFORMATIONS 18. REGIOSPECIFIC *para*-HYDROXYLATION OF AROMATIC CARBAMATES MEDIATED BY THE FUNGUS *Beauveria sulfarum*

B. Vigna, A. Archelas and R. Furstoss*

Laboratoire de Chimie Organique et Bioorganique, Faculté des Sciences de Luminy - Case 601 -

13288 Marseille Cedex 9, FRANCE



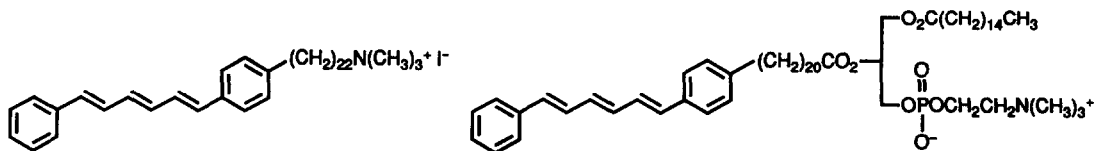
R1 = Methyl, isopropyl, cyclopentyl, cyclohexyl, pinanyl, adamantyl.

R2 = H or CH₃

SYNTHESIS OF FLUORESCENT PROBES FOR LOCALIZED MEMBRANE FLUIDITY MEASUREMENTS.

Alain Beck,^a Denis Heissler,^{*a} and Guy Duportail,^b

^a) Institut de Chimie, URA CNRS 31, Université Louis Pasteur, BP 296, 67008 Strasbourg, France; ^b) Centre de Recherches Pharmaceutiques, URA CNRS 491, Université Louis Pasteur, BP 24, 67401 Illkirch, France.

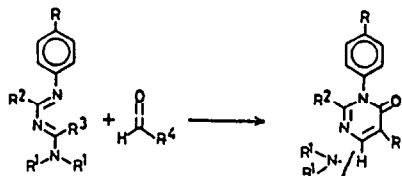


[4+2] CYCLOADDITION REACTIONS OF VARIOUS
1,3-DIAZA-1,3-BUTADIENES WITH KETENES

Sujit N. Mazumdar and Mohinder P. Mahajan*

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

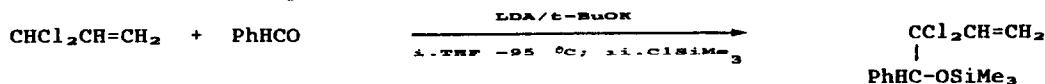
The Diels-Alder cycloaddition
reactions of various 1,3-diaza-
1,3-butadienes with monophenyl-
and monochloroketene resulted in a
wide range of substituted 1,6-dihydropyrimidin-6-one derivatives.



EFFECT OF THE CATION IN THE REGIOSELECTIVITY CONTROL IN REACTIONS OF
3,3-DICHLOROALLYL METALS WITH SUBSTITUTED BENZALDEHYDES

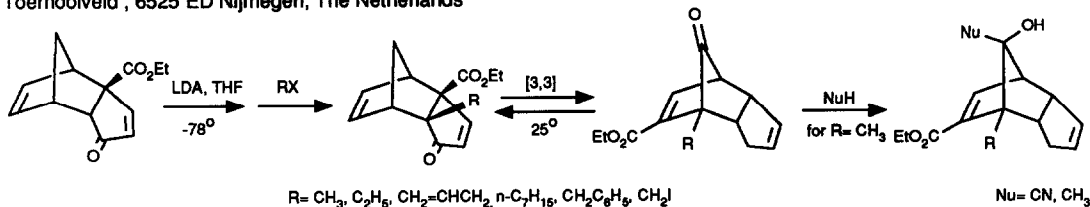
C. Canepa, S. Cobianco, I. Degani, A. Gatti and P. Venturello*
Istituto di Chimica Organica dell' Universita`
Via P. Giuria, 7 10125 Torino Italy

The alpha selectivity shown by substituted benzaldehydes in the reaction
with *gem*-dichloroallyl anion, produced with LDA in the presence of potassium
tert-butoxide, is reported and discussed.



SYNTHESIS, [3,3]-SIGMATROPIC REARRANGEMENT AND ELECTROPHILIC
BEHAVIOR OF ANGULARLY ALKYLATED 2-CARBETHOXY-TRICYCLO[5.2.1.0^{2,6}]DECADIENONES

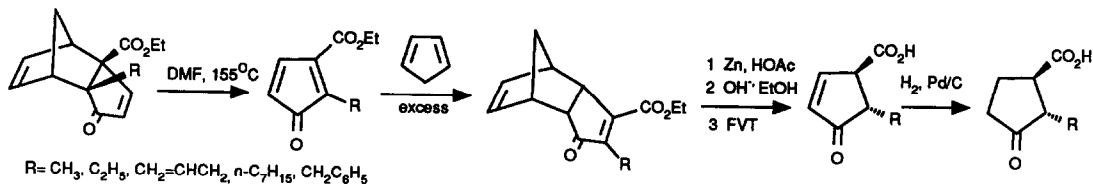
J H M. Lange, A.J.H. Klunder and B. Zwanenburg, Department of Organic Chemistry, University of Nijmegen,
Toernooiveld, 6525 ED Nijmegen, The Netherlands



**THERMAL GENERATION OF 2-ALKYL-3-CARBETHOXY-CYCLOPENTADIENONES
FROM ANGULARLY ALKYLATED TRICYCLO[5.2.1.0^{2,6}]DECADIENONES.**

THEIR USE IN THE SYNTHESIS OF CYCLOPENTENONDS AND DIHYDROSARKOMYCINS

J.H.M. Lange, A.J.H. Klunder and B. Zwanenburg, Department of Organic Chemistry, University of Nijmegen, Toernooiveld, 6525 ED Nijmegen, The Netherlands

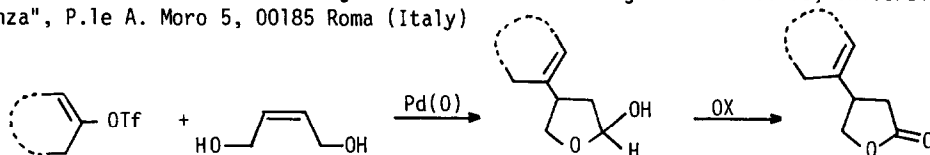


**β-VINYL-γ-BUTYROLACTONES VIA THE PALLADIUM-CATALYSED
REACTION OF VINYL TRIFLATES WITH Z-2-BUTEN-1,4-DIOL**

A. Arcadi,^a E. Bernocchi,^b S. Cacchi,^{b*} F. Marinelli;^a

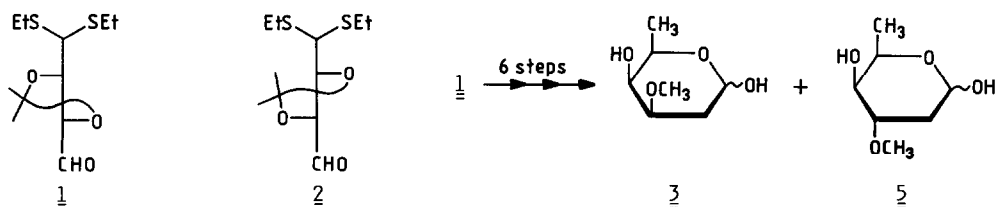
a) Dip. di Chimica, Ingegneria Chimica e Materiali, Università degli Studi, Via Assergi 4, 67100 L'Aquila (Italy)

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



**TARTRALDEHYDES II. SYNTHESIS OF D- AND L-
-DIGINOSE AND D- AND L-SARMENTOSE.**

Pál Herczegh*, Imre Kovács, Ferenc J. Sztaricskai*
Research Group for Antibiotics, Hungarian Academy of Sciences,
H-4010 Debrecen, P.O. Box 70., Hungary



AN EFFICIENT APPROACH TO THE SYNTHESIS OF THYMIDINE DERIVATIVES CONTAINING PHOSPHATE-ISOSTERIC METHYLENE ACETAL LINKAGES

G.H. Veeneman, G.A. Van Der Marel, H. Van Den Elst and J.H. Van Boom
 Gorlaeus Laboratories, P.O. Box 9502, 2300 RA Leiden, The Netherlands

Thymidine dimers having internucleosidic-(3'-5')-methylene acetal linkages were obtained by iodonium ion promoted condensation of properly protected 3'-O-Methylthiomethyl (or 3'-O-Pentenylloxymethyl) thymidine with 3'-O-Mac-thymidine.

