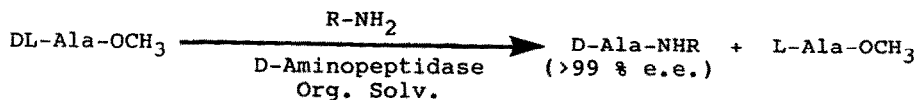


GRAPHICAL ABSTRACTS

Tetrahedron, 45, 5743, (1989)

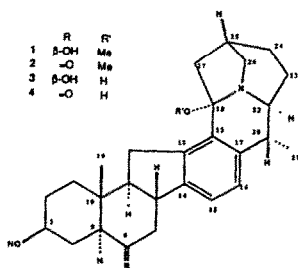
FIRST STEREOSELECTIVE SYNTHESIS OF D-AMINO ACID N-ALKYL AMIDE CATALYZED BY D-AMINOPEPTIDASE.

Yasuo Kato, Yasuhisa Asano*, Akiko Nakazawa and Kiyosi Kondo
Sagami Chemical Research Center, Sagamihara, Kanagawa 229, Japan



R = 3-pentyl-, neopentyl-, benzyl-, n-butyl-

Tetrahedron, 45, 5755, (1989)



NEW STEROIDAL ALKALOIDS HAVING A NOVEL SEVEN RING SKELETON FROM FRITILLARIA USSURIENSIS MAXIM.

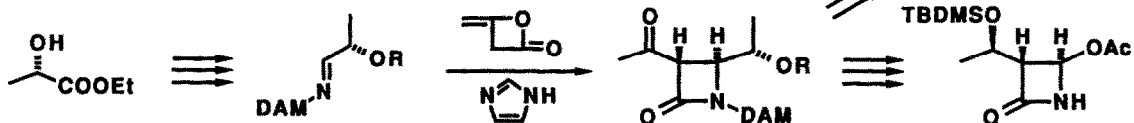
Yukie Kitamura, Makoto Nishizawa, Koh Kaneko, Mitsuhiro Ikura, Kunio Hikichi, Motoo Shiro, Yuh-Pan Chen and Hong-Yen Hsu

New steroidal alkaloids, ussuriidine(3) and ussuriidinone(4), having an additional ring formed by C-C bond between C-18 and C-27 of cevanine skeleton were isolated from *Fritillaria ussuriensis* Maxim.

Tetrahedron, 45, 5767, (1989)

NOVEL SYNTHESIS OF THE CARBAPENEM KEY INTERMEDIATES, (3R,4R)-4-ACETOXY-3-[(R)-1-(t-BUTYLDIMETHYLSILOXY)ETHYL]-2-AZETIDINONE AND (3S,4R)-3-[(R)-1-(t-BUTYLDIMETHYLSILOXY)ETHYL]-4-CARBOXYMETHYL-2-AZETIDINONE, FROM (S)-ETHYL LACTATE

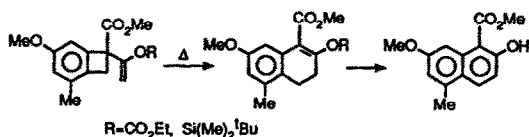
Yoshio Ito, Yuko Kobayashi, Takeo Kawabata, Mitsuru Takase, and Shiro Terashima*
Sagami Chemical Research Center, Nishi-Onnuma, Sagamihara, Kanagawa 229, Japan



Tetrahedron, 45, 5791, (1989)

A NEW SYNTHETIC ROUTE TO 2-HYDROXY-NAPHTHALENE-1-CARBOXYLIC ACID DERIVATIVES. AN NEW EFFICIENT ACCESS TO THE NAPHTHALENE MOIETY OF NEOCARZINOSTATIN CHROMOPHORE

Kozo Shishido^a, Akitake Yamashita^a, Kou Hiroya^a, Keiichiro Fukumoto^a, and Tetsuji Kametani^b
^aPharmaceutical Institute, Tohoku University, Aobayama, Sendai 980, Japan
^bInstitute of Medicinal Chemistry, Hoshi University, Ebara 2-4-41, Shinagawa-ku, Tokyo 142, Japan



Tetrahedron, 45, 5845, (1989)

CLEROMYRINE I, A NEW CYCLOHEXAPEPTIDE FROM CLERODENDRUM MYRICOIDES.

S. Bashwira⁺, C. Hootelé^{+*}, D. Tourwé[#], H. Pepermans[#], G. Laus[&] and G. Van Binst[#].

Service de Chimie Organique⁺, Université Libre de Bruxelles, B-1050 Bruxelles.

Eenheid Organische Chemie (ORGC)[#], Vrije Universiteit Brussel and Biorgan. Brussels[&].

The structure of a new natural peptide is determined as: cyclo(L-Ala-Gly-L-Pro-L-Ile-L-Val-L-Phe)

Tetrahedron, 45, 5867, (1989)

STUDIES ON TERPENOID AND STEROIDS-18

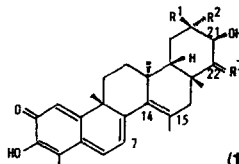
BALAEENOL, BALAEENOL & ISOBALAEENOL: THREE NEW 14(15)-ENE-QUINONE-METHIDE TRITERPENOIDS FROM CASSINE BALAE

H. Chandrasiri Fernando, A.A. Leslie Gunatillaka^{*}

Department of Chemistry, University of Peradeniya, Sri Lanka

Yasuhiro Tezuka, Tohru Kikuchi^{*}

Research Institute for Wakan-Yaku, Toyama Medical & Pharmaceutical University, Toyama, Japan.



Structures of three new 14(15)-ene-quinone-methide triterpenoids balaenol(1), balaenol(2) and isobalaenol(3) have been elucidated with the aid of spectroscopic data

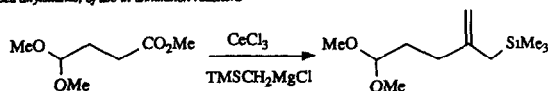
- (1) R¹ = Me; R² = H; R³ = O
- (2) R¹ = Me; R² = H; R³ = H₂
- (3) R¹ = H; R² = Me; R³ = β-OH, H

Tetrahedron, 45, 5877, (1989)

THE CERIUM (III) MEDIATED REACTION OF TRIMETHYLSILYLMETHYL MAGNESIUM CHLORIDE WITH ESTERS AND LACTONES: THE EFFICIENT SYNTHESIS OF SOME FUNCTIONALISED ALLYLSILANES OF USE IN ANNULATION REACTIONS.

Thomas V Lee^{*}, Julia A. Channon, Carmel Clegg, John R. Porter, Frances S. Roden and Helena T.-L. Yeoh (School of Chemistry, The University, Bristol, BS8 1TS, England)

Cerium (III) chloride alters the chemoselectivity of the reaction of the trimethylsilylmethyl magnesium chloride with ester-acetals giving direct access to valuable functionalised allylsilanes, of use in annulation reactions

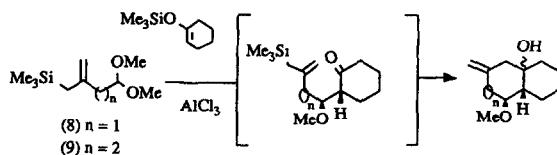


Tetrahedron, 45, 5887, (1989)

REACTIONS OF O-SILYLATED ENOLATES WITH ALLYLSILANE BIFUNCTIONAL [4+2] AND [5+2] ANNULATING REAGENTS

Thomas V Lee^{*}, Raymond J. Boucher, John R. Porter and Caroline J.M. Rockall (School of Chemistry, The University, Bristol BS8 1TS, England)

The reactions of the two allylsilane-acetals (8) and (9) with O-silylated enolates results in a new route to fused carbocyclic six and seven-membered rings in a one-pot reaction.

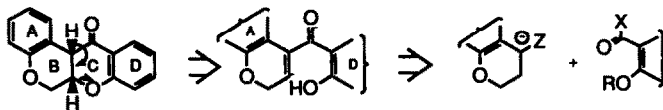


Tetrahedron, 45, 5895, (1989)

A New Synthetic Approach to the Rotenoid Ring System

Steven M.F.Lai, Jack J.A.Orchison, and Donald A.Whiting
Chemistry Department, The University, Nottingham NG7 2RD

A new approach is reported to the chromano-chromanone ring system characteristic of the rotenoid group of natural insecticides, based on the disconnection shown.

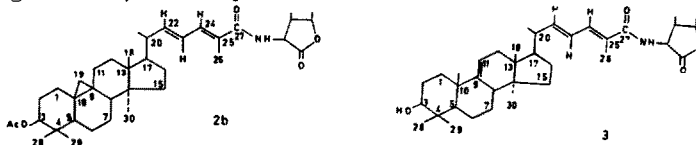


Tetrahedron, 45, 5907, (1989)

NEW TRITERPENES FROM HEINSIA CRINATA

Babady-Bila, A. Kilonda, Dép.de Chimie, Univ.de Kinshasa, B.P.137 Kinshasa XI, Zaire;
S. Toppet, F. Compennolle, G. Hoornaert*, Dep.Chemistry KULeuven, B-3030 Heverlee, Belgium.

The structure of two new genins 2b, 3 of saponins is established on the basis of IR, NMR and mass spectrometry.

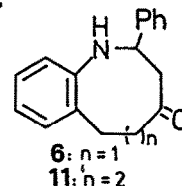


Tetrahedron, 45, 5917, (1989)

Rearrangement of Isoxazoline-5-spiro Derivatives. Part 4. Synthesis of Medium Size Benzofused Azaheterocycles

Franca M. Cordero,^a Andrea Goti,^a Francesco De Sarlo,^a Antonio Guarna,^a and Alberto Brandi^b
a. Centro di Studio sulla Chimica e la Struttura dei Composti Eterociclici e loro Applicazioni, C.N.R., Dipartimento di Chimica Organica, Università di Firenze, Via G. Capponi 9, I-50121 Firenze, Italy;
b. Istituto di Chimica, Università della Basilicata, Via N.Sauro 85, I-85100 Potenza, Italy.

Medium sized aza-heterocycles **6** and **11** are obtained besides common rearrangement products *via* sequential cycloaddition-rearrangement from C,N-diphenylnitrone and strained methylenecycloalkanes.

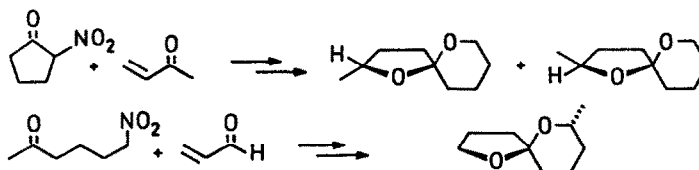


FUNCTIONALIZED NITROALKANES IN SYNTHESIS OF 1,5-DIOXASPIRO[4.5]DECANE COMPONENTS OF PARAVESPULA VULGARIS PHEROMONE.^a

Goffredo ROSINI,^a Roberto BALLINI,^b Emanuela MAROTTA^a

a) Dipartimento di Chimica Organica dell'Università, Viale Risorgimento n 4, I-40136 Bologna
b) Dipartimento di Scienze Chimiche dell'Università, Via S. Agostino n 1, I-62032 Camerino

Tetrahedron, 45, 5935, (1989)

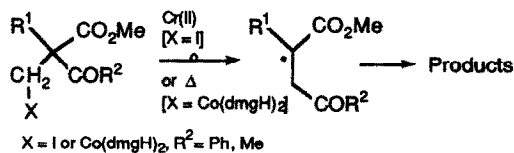


Tetrahedron, 45, 5943, (1989)

**REACTIONS RELATED TO COENZYME B₁₂ DEPENDENT
REARRANGEMENTS: METAL MEDIATED FREE RADICAL
ACYL MIGRATIONS IN METHYL AND CYCLOPROPYL SUBSTITUTED MODELS**

Wayne M. Best and David A. Widdowson*, Department of Chemistry, Imperial College, London SW7 2AY, U.K.

MethylmalonylCoA Mutase models, of the series R¹ = Me or cyclopropyl, undergo radical [1,2]-acyl shifts (R² = Ph or Me), but not [1,2]-oxy- or thioester shifts (R² = OEt, SBu)

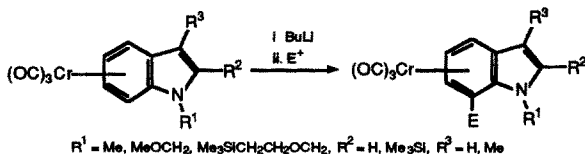


Tetrahedron, 45, 5955, (1989)

Peri-Directed 7-Substitution in η⁶-Indoletricarbonyl-chromium(0) Complexes

N.F. Masters, N. Mathews, G. Nechvatal and D.A. Widdowson*, Department of Chemistry, Imperial College, London SW7 2AY, U.K.

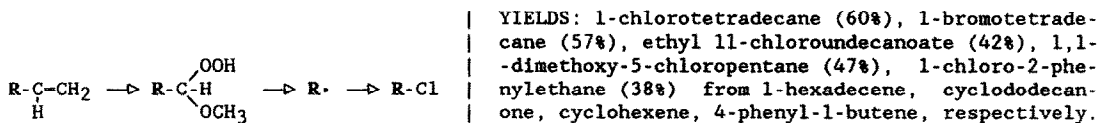
7-Lithiation in the Cr(CO)₃ complexes is best achieved via the use of a coordinating group on N-1 of the indole.



**REACTION OF ALKOXYHYDROPEROXIDES WITH METAL SALTS
ALKYL HALIDE PREPARATION**

G. Cardinale, J.C. Grimmelikhuisen, J.A.M. Laan, F.P. van Lier, D. van der Steen and J.P. Ward
Unilever Research Laboratorium, P.O.Box 114, 3130 AC Vlaardingen, The Netherlands

A synthesis of alkyl chlorides by reaction of methoxy hydroperoxides, prepared from 1-alkenes by ozonisation in methanol, with ferric chloride.

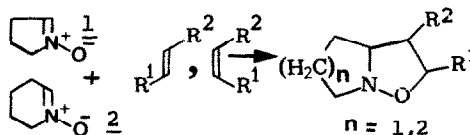


Tetrahedron, 45, 5979, (1989)

**THE 1,3-DIPOLAR CYCLOADDITION OF CYCLIC NITROMES WITH
1,2-DISUBSTITUTED ALKENE**

Sk. Asrof Ali, Javid H. Khan, Mohammed I. M. Hazeer and Herman P. Perzanowski
Chemistry Department, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia.

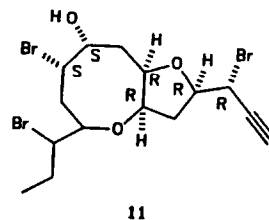
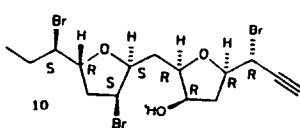
A study of stereochemical and reactivity phenomena of the 1,3-dipolar cycloaddition of cyclic nitrones. Cyclic nitron 2 is found to be more reactive than cyclic nitron 1.



THREE NEW BROMOETHERS FROM THE RED ALGA L. OBTUSA
 Manuel Norte*, José J. Fernández and José Z. Ruano
 C.P.N.O. Antonio González. Inst. Univ. Bio-orgánica,
 Universidad de La Laguna La Laguna 38206, Tenerife, Spain

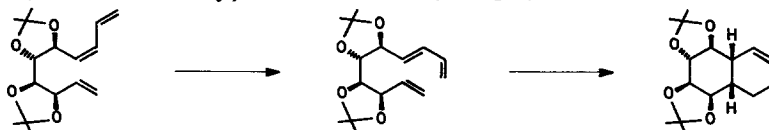
Tetrahedron, 45, 5987, (1989)

Three new bromoethers, 9, 10 and 11, have been isolated from the red alga *L. obtusa*. Their structures and absolute configuration have been determined by spectroscopical and chemical methods.



INTRAMOLECULAR REACTIONS OF COMPOUNDS DERIVED FROM SUGARS. PART III. HIGH DIASTEREOSELECTION IN THE INTRA-MOLECULAR DIELS-ALDER REACTION OF SUGAR BASED 1,7(E,Z),9-DECATRIENES.
 P. Herczegh, M. Zsély, L. Szilágyi, Z. Dinya, R. Bognár
 Research Group for Antibiotics, Hungarian Academy of Sciences and Institute of Organic Chemistry, L. Kossuth University, H-4010 Debrecen, Hungary

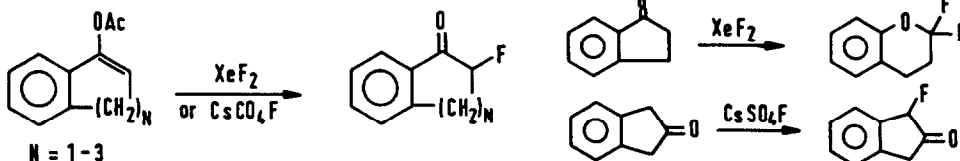
Tetrahedron, 45, 5995, (1989)



CHEMISTRY OF ORGANO HALOGENIC MOLECULES. PART 100. COMPARATIVE BEHAVIOUR OF XENON DIFLUORIDE AND CAESIUM FLUOROXYLSULPHATE IN THE FLUORINATION OF ENOL ACETATES AND KETONES

Tetrahedron, 45, 6003, (1989)

Stojan Stavber, Boris Šket, Barbara Zajc and Marko Zupan
 Jozef Stefan Institute, Laboratory of Organic and Bioorganic Chemistry, 61000 Ljubljana and *Department of Chemistry* University of Ljubljana, 61000 Ljubljana, Yugoslavia



A CONCISE SYNTHESIS OF PYRIDOGLUTETHIMIDE
 Aileen M. Boss, Derek W. Clissold, John Mann*,
 Andrew J. Markson, and Christopher P. Thickitt.
 Department of Chemistry, Reading University, Whiteknights, Reading RG6 2AD, U.K.

Tetrahedron, 45, 6011, (1989)

A 'one-pot' synthesis of 3-(4-pyridyl)-3-ethylpiperidine-2,6-dione (pyridoglutethimide, R=Et), a potent aromatase inhibitor; also its resolution using chiral stationary phase HPLC.

