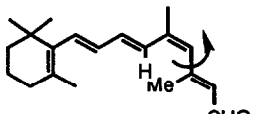
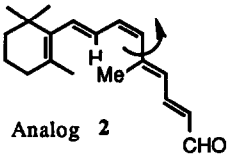
Tetrahedron, **1991**, *47*, 3711

11-METHYL-9-DEMETHYLRETINAL AND 11-METHYL-9,13-DIDEMETHYLRETINAL. Effect of Altered Methyl Substitution Pattern on Polyene Conformation, Photoisomerization and Formation of Visual Pigment Analogs. by Leticia U. Colmenares & Robert S. H. Liu*

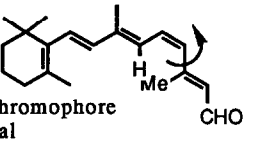
Department of Chemistry, 2545 The Mall, University of Hawaii, Honolulu, HI 96822 USA



Analog **1**



Analog **2**



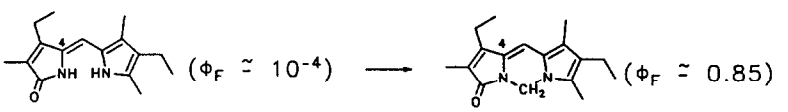
The twisted chromophore of 11-cis-retinal

Tetrahedron, **1991**, *47*, 3719

RESTRICTED BOND ROTATION AND FLUORESCENCE FOLLOWING PHOTOEXCITATION OF DIPYRRINONES

Jin-Shi Ma and David A. Lightner*

Weakly fluorescing dipyrrinones can be converted to strongly fluorescing pigments by connecting the lactam and pyrrole nitrogens with a $-CH_2-$ group so as to inhibit $4Z \rightarrow 4E$ C=C isomerization.

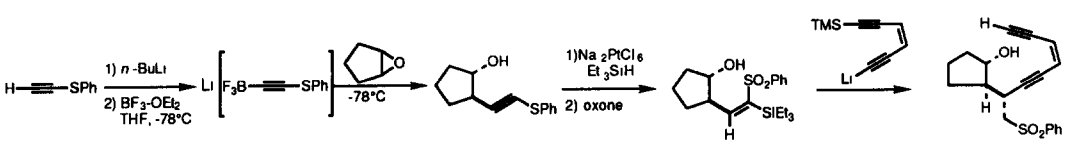


Tetrahedron, **1991**, *47*, 3727

Diastereoselective Heteroconjugate Addition of Acetylenic Derivatives

Angkana Herunsalee, Minoru Isobe* and the late Toshio Goto

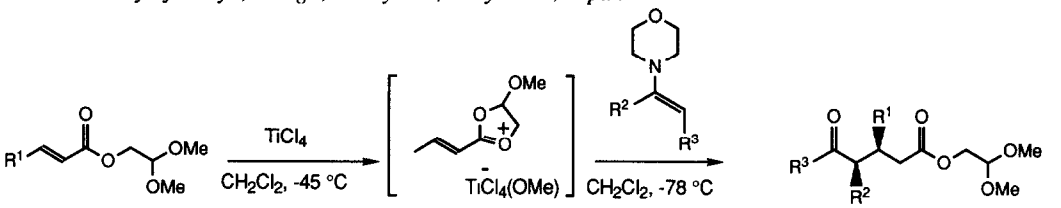
Laboratory of Organic Chemistry, School of Agriculture, Nagoya University, Chikusa, Nagoya 464-01, Japan



Tetrahedron, **1991**, *47*, 3737

THE HIGHLY *SYN*-SELECTIVE MICHAEL REACTION OF ENAMINES WITH 2-(1-ALKENYL)-1,3-DIOXOLAN-2-YLIUM CATIONS GENERATED FROM 2,2-DIMETHOXYETHYL 2-ALKENOATES *IN SITU*

Shigeru Machida, Yukihiko Hashimoto, Kazuhiko Saigo,* Jun-ya Inoue, and Masaki Hasegawa
Department of Synthetic Chemistry, Faculty of Engineering, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113, Japan

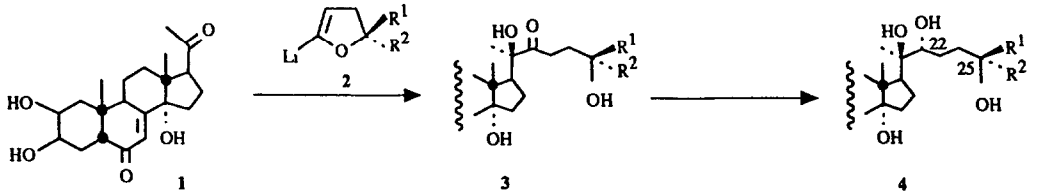


Tetrahedron, **1991**, *47*, 3753

A FACILE ROUTE TO 20-HYDROXYECDYSONE AND SIDE CHAIN HOMOLOGUES FROM POSTSTERON

UDO HEDTMANN, RALF KLINTZ, KURT HOBERT, JADWIGA FRELEK, IONTSCHO VLAHOV, and PETER WELZEL*
Fakultät für Chemie der Ruhr-Universität, Postfach 102148, D-4630 Bochum (FRG)

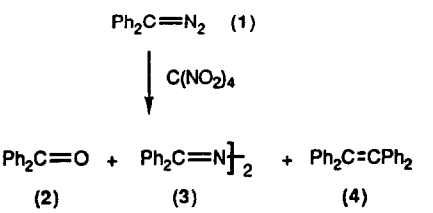
A flexible approach to ecdysteroids, chain elongated at C-26 and C-27, is reported. Key features are the addition of 5-lithio 2,3-dihydrofurans (**3**) to poststeron (**10**) and a stereoselective reduction of the 22-CO group.



Tetrahedron, **1991**, *47*, 3773

Oxygen Transfer by Dissociative Electron Transfer. Reaction of Tetranitromethane with Diazo Compounds and Sulfides

Waldemar Adam* and Maria Elena González-Nuñez, Institute of Organic Chemistry, University of Würzburg, Am Hubland, D- 8700 Würzburg, Germany



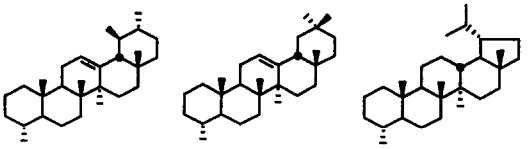
In the absence of oxygen, diphenyldiazomethane is oxidized by $C(NO_2)_4$ to afford benzophenone, its azine and tetraphenylethylene by involving the triad $[1^{+\bullet}; NO_2; {}^{-}C(NO_2)_3]$; also sulfides undergo this dissociative ET process.

Tetrahedron, **1991**, *47*, 3779

CHARACTERISATION OF 24-*NOR*-TRITERPENOIDS OCCURRING IN SEDIMENTS AND CRUDE OILS BY COMPARISON WITH SYNTHESIZED STANDARDS

Torren M. Peakman[a,*], H. Lo ten Haven[a], Jürgen Rullkötter[a] and Joseph A. Curiale[b]
[a]Forschungszentrum Jülich GmbH, D-5170 Jülich, FRG. [b]UNOCAL Inc., P.O. Box 76, Brea, CA 92621, U.S.A.

24-*nor*-Urs-12-ene (**2i**), 24-*nor*-olean-12-ene (**3i**) and related double bond isomers, and 24-*nor*-lupane (**4i**), have been identified in sediments and crude oils by comparison with standards.

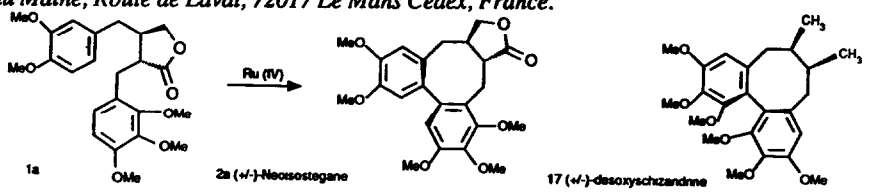


(2i) (3i) (4i)

Tetrahedron, **1991**, *47*, 3787

Ruthenium Dioxide in Fluoro Acid Medium: I. A New Agent in the Biaryl Oxidative Coupling. Application to the Synthesis of Non Phenolic Bisbenzocyclooctadienes Lignan Lactones.

Y. Landais, J.-P. Robin* and A. Lebrun. *Département de Chimie, Institut Universitaire de Technologie Université du Maine, Route de Laval, 72017 Le Mans Cédex, France.*

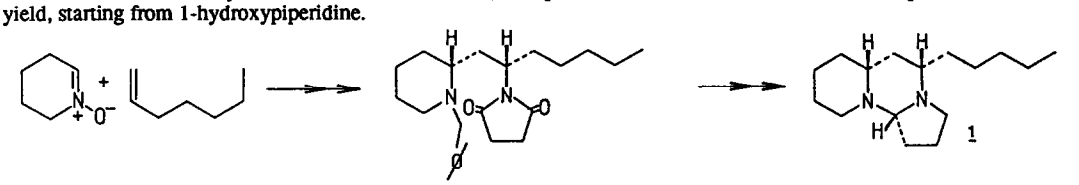


Tetrahedron, **1991**, *47*, 3805

STEREOSELECTIVE TOTAL SYNTHESIS OF (±)-TETRAPONERINE-8

P. Merlin, J.C. Braekman*, D. Daloze.
Lab. of Bio-organic Chemistry, Fac. Sciences, University of Brussels, Av. F.D. Roosevelt 50 - 1050 Brussels - Belgium

A stereocontrolled total synthesis of the ant alkaloid (±)-tetraponerine-8 (**1**) has been achieved in 7 steps and 28% overall yield, starting from 1-hydroxypiperidine.

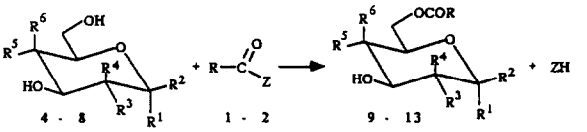


Tetrahedron, **1991**, *47*, 3817

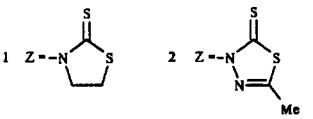
SUGAR CHEMISTRY WITHOUT PROTECTING GROUPS-III. A FACILE CHEMICAL SYNTHESIS OF 6-O-ACYL-D-GLYCOPYRANOSES AND METHYL-6-O-ACYL-D-GLYCOPYRANOSIDES

Krystyna BACZKO and Daniel PLUSQUELLEC *

Laboratoire de Chimie Organique et des Substances Naturelles, associé au CNRS, ENSCR, Avenue du général Leclerc, F-35700 RENNES



4 : methyl- α-D-glucoside
5 : methyl- α-D-mannoside
6 : methyl- β-D-galactoside
7 : α-D-glucose
8 : α-D-galactose



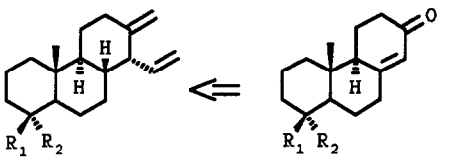
Tetrahedron, **1991**, *47*, 3829

SYNTHESIS OF (-)-AURICULARIC ACID AND ITS C-4 EPIMER THE ABSOLUTE CONFIGURATION OF AURICULARIC ACID

A. Abad,* M. Arnó,* M. Peiró and R. J. Zaragozá

Departamento de Química Orgánica. Universitat de Valencia Dr. Moliner 50, 46100 Burjassot, Valencia, Spain.

(-)-Auricularic acid (**1a**) *and its C-4 epimer* (**1b**) *have been synthesised from* (**2a**) *and* (**2b**), *respectively. The absolute configuration of natural auricularic acid is stablished as (4R, 5S, 8S, 9R, 10S, 14S).*



1a $R_1 = CO_2H, R_2 = CH_3$ **2a** $R_1 = CO_2CH_3, R_2 = CH_3$

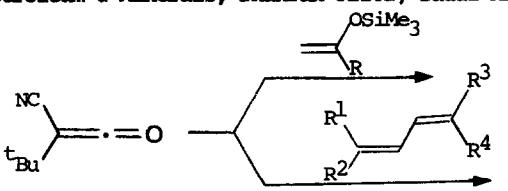
1b $R_1 = CH_3, R_2 = CO_2H$ **2b** $R_1 = CH_3, R_2 = CO_2CH_3$

Tetrahedron, **1991**, *47*, 3845

ADDITION REACTIONS OF TERT-BUTYLCYANOKETENE TO SILYL ENOL ETHER AND CONJUGATED DIENES.

Abdulrahman H. Al-Husaini, Ikhtiar Khan and Sk. Asrof Ali
Chemistry Dept., King Fahd University of Petroleum & Minerals, Dhahran 31261, Saudi Arabia.

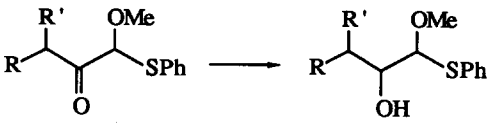
A study of the addition reactions of tert-butylcyanoketene with several 1-aryl-1-trimethylsiloxyethenes and acyclic conjugated dienes has been carried out.



Tetrahedron, **1991**, *47*, 3853

CHELATION AND NON-CHELATION CONTROLLED STEREOSELECTIVE REDUCTION OF α-METHOXY-α-PHENYLTHIO KETONES.

R. Annunziata, M. Cinquini, F. Cozzi, A. Fuchicello.
Dipartimento di Chimica Organica - Università di Milano - Italy.



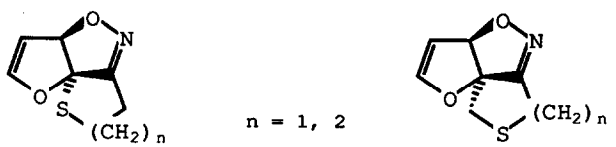
The reduction of some diastereoisomerically pure α-methoxy-α-phenylthio ketones (R=alkyl, aryl; R'=alkoxy, alkyl) by $Zn(BH_4)_2$ and DIBAL-H is discussed and rationalized.

Tetrahedron, **1991**, *47*, 3869

REGIO- AND STEREOCONTROL IN THE INTRAMOLECULAR NITRILE OXIDE CYCLOADDITION TO 2-FURYLTHIOL- AND 2-FURYLMETHANETHIOL DERIVATIVES.

R. Annunziata, [a] M. Cinquini, [a] F. Cozzi, [a] L.Raimondi, [a] G. Licini. [b]
a: Università di Milano. b: Università di Padova (Italia).

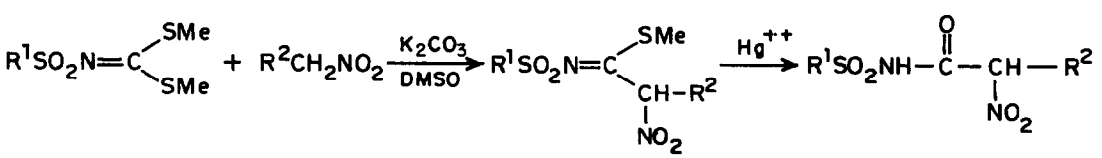
2-Furyl- and 2-furylmethyl nitrosulphides undergo a totally regiocontrolled intramolecular cycloaddition to give cis-fused products in high yield.



Tetrahedron, **1991**, *47*, 3887

SYNTHESIS AND TAUTOMERISM OF 1-ARYLSULFONAMIDO-1-METHYLTHIO-2-NITROETHYLENES : CONVERSION TO N-ARYL-SULFONYL NITROACETAMIDES

S.P.MAYBHATE, A.R.A.S.DESHMUKH AND S RAJAPPA*
National Chemical Laboratory, Pune 411 008, India



Tetrahedron, **1991**, *47*, 3895

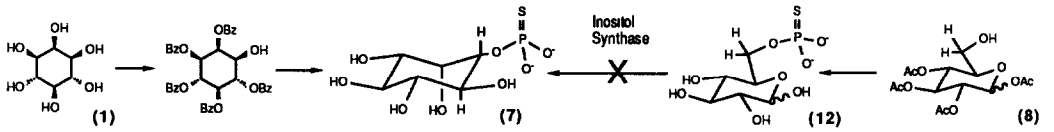
SYNTHESIS OF D- AND L- *MYO*-INOSITOL PHOSPHOROTHIOATE, SUBSTRATES FOR INOSITOL MONOPHOSPHATASE

Graham R. Baker[a], David C. Billington[b] and David Gani[*a]*

[a] *Chemistry Department, The University , Southampton, SO9 5NH, U.K.,*

Present Address. Chemistry Department, The Purdie Building, The University, St. Andrews, Fife, KY16 9ST, U.K

[b] *Merck, Sharp and Dohme, Neuroscience Research Centre, Terlings Park, Eastwick Road, Harlow, Essex, CM20 2QR U K*



(1) (7) (12) (8)

Each enantiomer of the title compound **(7)** was synthesised from *myo*-inositol **(1)**. The glucose phosphorothioate **(12)** was not converted to **(7)** by inositol synthase