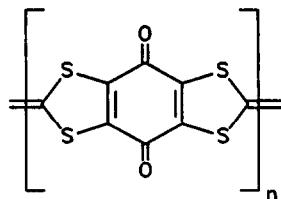
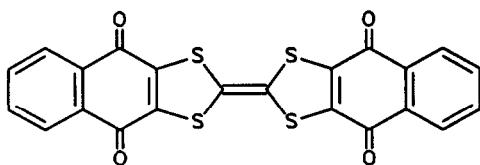


GRAPHICAL ABSTRACTS

Tetrahedron, 1993, 49, 3035

TETRATHIAFULVALENE QUINONES, HYDROQUINONES AND ESTERS

William H Watson, Etim E. Eduok, Ram P. Kashyap and Mariusz Krawiec
Department of Chemistry, Texas Christian University, Fort Worth, TX 76129 U.S.A.

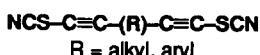
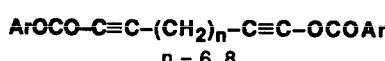
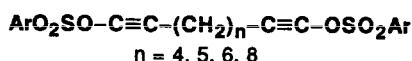


Tetrahedron, 1993, 49, 3043

FUNCTIONALIZATION OF DIYNES. PREPARATION OF BIS(ALKYNYL) DITOSYLADE AND DIBENZOATE ESTERS AND BIS(ALKYNYL) DITHIOCYANATES VIA ALKYNYL IODONIUM CHEMISTRY.

Rik Tykwiński and Peter J. Stang*
Department of Chemistry, University of Utah, Salt Lake City, Utah 84112

The synthesis and characterization of the title compounds from the corresponding bis[(phenyl) iodonium] diyne salts is described



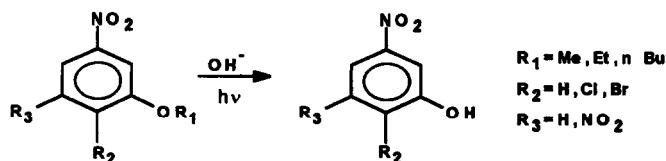
Tetrahedron, 1993, 49, 3053

Further Evidence for the Triplet Mechanism

in the Photosubstitution of Nitroaryl Ethers in Alkaline Medium.

João Baptista Sargi Bonilha,* Antonio Claudio Tedesco, Lázaro Cícero Nogueira,
Maria Teresa Ribeiro Silva Diamantino and Júlio Cesar Carreiro

Departamento de Química, Faculdade de Filosofia, Ciências e Letras de Ribeirão Preto,
Universidade de São Paulo- 14040-910- SP- Brasil



UNIQUE TEMPLATE EFFECTS OF DISTANNOXANE CATALYSTS
IN TRANSESTERIFICATION OF DIOL ESTERS

Tetrahedron, 1993, 49, 3065

Junzo Otera,* Nobuhisa Dan-oh, and Hitoshi Nozaki

Department of Applied Chemistry, Okayama University of Science, Ridai-cho, Okayama 700, Japan

Template effects of 1,3-disubstituted tetraalkylidistannoxane catalysts in selective transesterification of diol diacetates into the monoacetates are discussed



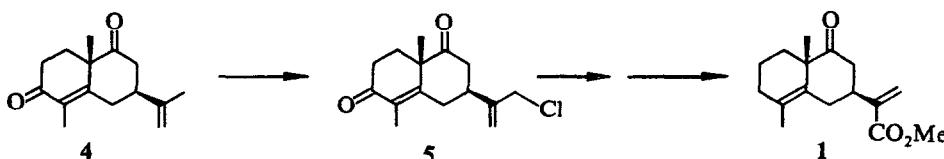
Tetrahedron, 1993, 49, 3075

SYNTHESIS OF (\pm)-9-OXOEUDESMA-4,11(13)-DIENE-7 α H-12-OIC ACID METHYL ESTER

Xin Chen, Tongshuang Li, Fajun Nan, Sichang Shao¹ and Yulin Li*

State Key Laboratory of Applied Organic Chemistry and Institute of Organic Chemistry, Lanzhou University,
Lanzhou 730000, P R China

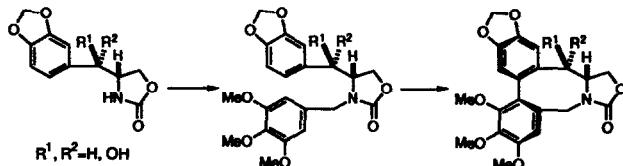
The first total synthesis of (\pm)-9-oxocudcsma-4,11(13)-dicne-7 α H-12-oic acid methyl ester 1 has been described



Tetrahedron, 1993, 49, 3081

DESIGN, SYNTHESIS, AND STRUCTURE-CYTOTOXICITY
RELATIONSHIPS OF AZA-STEGANES

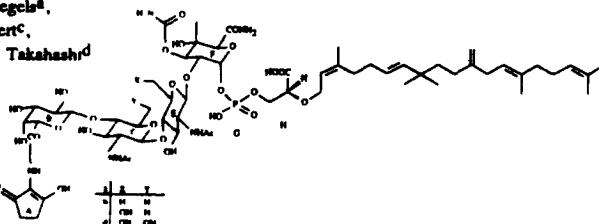
Y Kubota, H Kawasaki, K. Tomioka,¹ and K. Koga, Faculty of Pharmaceutical Sciences, University of
Tokyo, Bunkyo-ku, Tokyo 113, Japan, ¹ISIR, Osaka University, Ibaraki, Osaka 567, Japan



**STRUCTURES OF SOME MOENOMYCIN-ANTIBIOTICS -
INHIBITORS OF PEPTIDOGLYCAN BIOSYNTHESIS**

Tetrahedron, 1993, 49, 3091

J Scherkenbeck^a, A Hultmann^a, K Hobert^a, W Bankova^a, T Siegel^a,
M Kaiser^a, D Müller^a, H J Veh^b, H-W Fehlhaber^c, G Seibert^c,
A Markus^c, M Lumbert^c, G Huber^c, D Böttger^c, A Stärk^c, S Takahashi^d,
Y van Heijenoort^c, J van Heijenoort^c, and P Welzel^a,
^aFakultät für Chemie der Ruhr-Universität, Postfach 102148,
D-4630 Bochum (Germany), ^bInstitut für Org. Chemie der
Technischen Hochschule Darmstadt Petersenstr. 22,
D-6100 Darmstadt (Germany), ^cHoechst AG, Postfach 800320,
D-6230 Frankfurt 80 (Germany), ^dSankyo Co., Ltd.,
Fermentation Research Laboratories, 2-58, Huromachi 1-chome,
Shinagawa-ku, Tokyo (Japan), ^eBiochimie Moléculaire et cellulaire, Université Paris-Sud, Orsay (France)

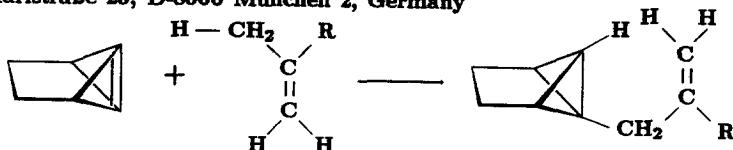


Isolation, structural assignment, and antibiotic efficiency of the new moenomycin antibiotics C₃ (1b) and C₄ (1c) is described. The previously published structure of pholipomycin (1d) is modified.

Ene Reactions of Tricyclo[3.1.0.0^{2,6}]hex-1(6)-ene

Tetrahedron, 1993, 49, 3101

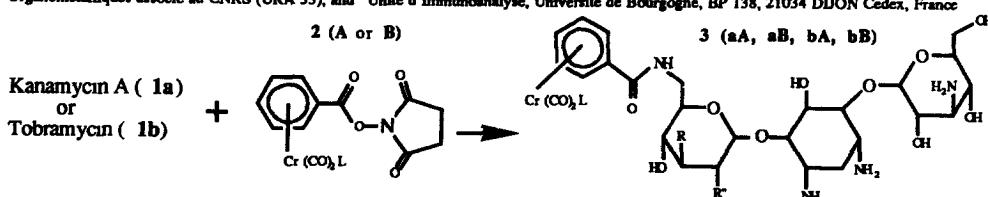
Stefan Graf, Günter Szeimies, Institut für Organische Chemie der Universität München
Karlstraße 23, D-8000 München 2, Germany



**Organochromium Complexes - Labelled Aminoglycoside Antibiotics
Derived from Kanamycin A and Tobramycin. Synthesis, Structural
Characterization and Use as Metallotracers for Immunoassays.**

Tetrahedron, 1993, 49, 3109

Jan Szymonak^{a*}, Bouchra El Moutassim^a, Jack Besançon^a, Claude Moïse^a and Pierre Brossier^b, ^aLaboratoire de Synthèse et d'Electrosynthèse Organométalliques associé au CNRS (URA 33), and ^bUnité d'Immunoanalyse, Université de Bourgogne, BP 138, 21034 DIJON Cedex, France

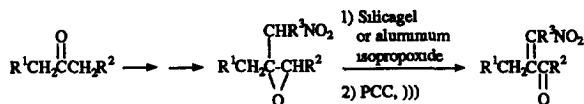


A L = CO , B L = P(OMe)₃ , a R' = R'' = OH , b R' = H, R'' = NH₂

The metallabelling of kanamycin A and tobramycin proceeded selectively at the 6'-N position.
An example of a competitive immunoassay has been presented

**NOUVELLE VOIE D'ACCES AUX β -NITROENONES
PREMIER PREPARATION DE β -NITROENONES ACYCLIQUES**

Raphaël SCHNEIDER, Philippe GERARDIN, Bernard LOUBINOUX
Laboratoire de Chimie Organique 4, Université de Nancy I, Faculté des Sciences,
BP 239, 54506 Vandoeuvre-les-Nancy Cedex (France)



First preparation of acyclic β -nitroenones based on regioselective cleavage of γ -nitroepoxides

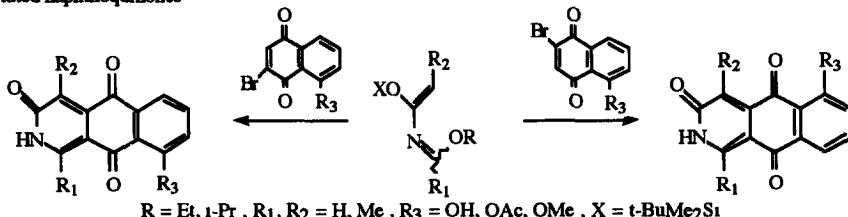
A REGIOSPECIFIC SYNTHESIS OF 2-AZAAANTHRAQUINON-3-ONES VIA A HETERO DIELS-ALDER REACTION WITH BROMONAPHTHOQUINONES

Boufjeja Bouammali,^a Félix Pautet,^a Houda Fillion^{*a} and Mohamed Soufiaoui^b

^aLaboratoire de Chimie Organique, Institut des Sciences Pharmaceutiques et Biologiques 8, avenue Rockefeller, F-69373 Lyon Cedex 08, France

^bLaboratoire de Chimie des Plantes et de Synthèse Organique et Bioorganique, Département de Chimie, avenue Ibn-Batouta, Rabat, Maroc

A regiospecific synthesis of 2-azaanthraquinon-3-ones was performed through a Diels-Alder reaction between 2-azadienes and 2- or 3-bromo-5-substituted naphthoquinones

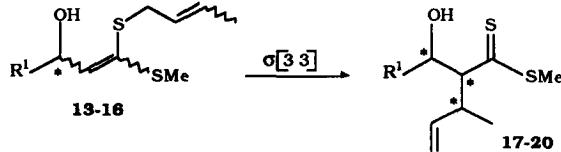


**Stereospecific Thio-Claisen Rearrangement
of S-Crotylic α -Hydroxy Ketene Dithioacetals.
Creation of three Contiguous Stereogenic Centres.**

Pierre Beslin^{*} and Stéphane Pernot

Laboratoire de Chimie des Composés Thio-organiques (Associé au CNRS), ISMRA, 14050 Caen, France

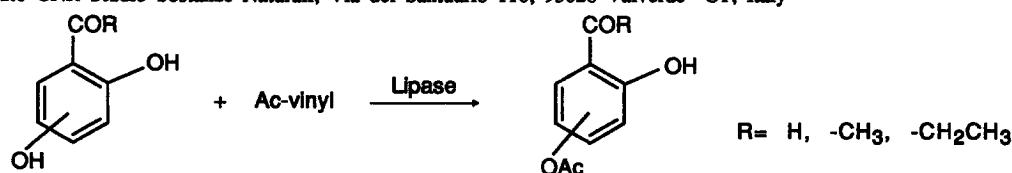
Each of the four available isomeric ketene dithioacetals **13-16** were rearranged stereospecifically into one of the four possible diastereoisomeric α -allylic β -dithioesters **17-20**.



LIPASE-CATALYZED REGIOSELECTIVE PROTECTION OF HYDROXYL GROUPS IN AROMATIC DIHYDROXYALDEHYDES AND KETONES

G. Nicolosi, M. Piattelli and C. Sanfilippo

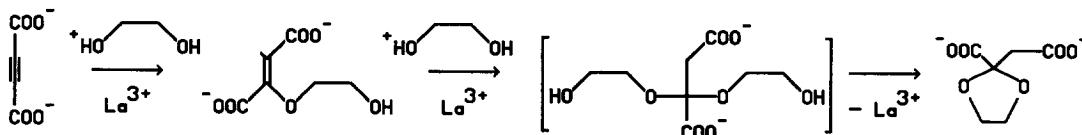
Istituto CNR Studio Sostanze Naturali, Via del Santuario 110, 95028 Valverde CT, Italy

*Pseudomonas cepacia* lipase catalyzes the regio-acetylation in organic solvents of dihydroxyaldehydes and ketones.

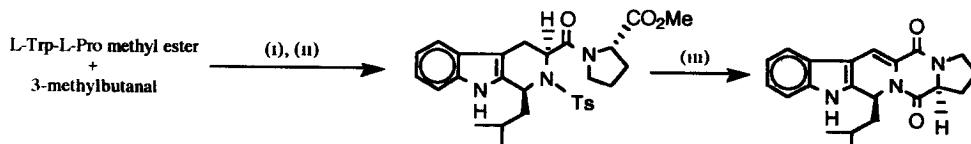
THE ADDITION OF HYDROXYL COMPOUNDS TO UNSATURATED CARBOXYLIC ACIDS HOMOGENEOUSLY CATALYSED BY LANTHANIDE(III)

Juriaan Huskens, Joop A. Peters, and Herman van Bekkum, Laboratory of Organic Chemistry and Catalysis, Delft University of Technology, Julianalaan 136, 2628 BL Delft, The Netherlands

Lanthanide(III) ions effectively promote the synthesis of etherpolycarboxylates from hydroxyl compounds and unsaturated carboxylic acids, in the case of acetylene derivatives cyclic ketals are obtained



Model Studies Related to the Total Synthesis of the Fumitremorgins; the Pictet-Spengler Cyclisation and the Formation and Intramolecular Acylation of a 1,2-Dihydro-β-Carboline Derivative

David M. Harrison^a and Ram Bilas Sharma^b ^aDepartment of Chemistry, The University of Warwick, Coventry CV4 7AL, U.K., ^bDepartment of Chemistry, The University of Ulster, Coleraine, Northern Ireland BT52 1SA, U.K.Reagents (i) 4Å m sieves, CH₂Cl₂, CF₃CO₂H (1 equiv), (ii) TsCl/pyridine, benzene, 70°C, (iii) EtONa/EtOH reflux

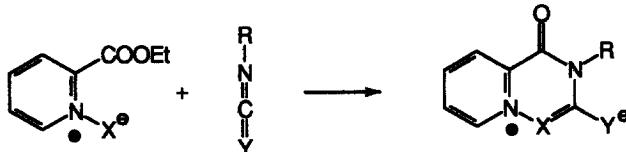
**2-ALKOXYCARBONYLCYCLOIMMONIUM YLIDES, EFFICIENT
1,4-DIPOLE EQUIVALENTS IN THE SYNTHESIS OF NEW
CONJUGATED BETAINES.**

A. M. Cuadro, J. Valenciano, J. J. Vaquero, J.
L. García Navio and J. Alvarez-Builla*

Departamento de Química Orgánica,
Universidad de Alcalá. 28871 Alcalá de
Henares, Madrid. Spain

Several heterocyclic mesomeric betaines
containing the bicyclic systems pyrido[1,2-a]
pyrazine and pyrido[2,1-f][1,2,4]triazine have
been prepared by reaction of 2-alkoxy-
carbonylpyridinium N-ylides with phenyl isocyanate and isothiocyanate

Tetrahedron, 1993, 49, 3185

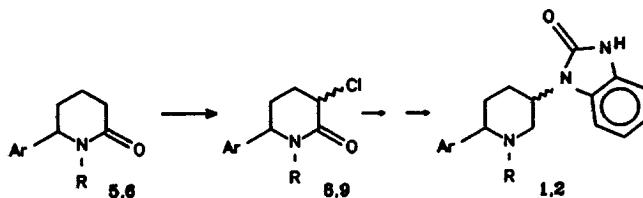


**SYNTHESIS OF 2,5-SUBSTITUTED PIPERIDINES: TRANSPOSITION OF
1,4-SUBSTITUTION PATTERN FOR THE ANALGESIC DRUG R6582.**

Nicole P. Baens, Frans Compérnolle*, Suzanne M. Toppet and Georges J. Hoornaert

Laboratorium voor Organische Synthese, K.U.Leuven, Celestijnenlaan 200F, B-3001 Leuven (Belgium)

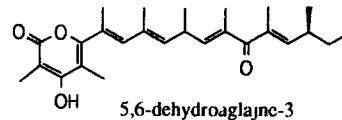
Cis and *trans* 2,5-substituted piperidines **1** and **2** are prepared from the lactams **5** and **6** via the *cis* and *trans* α -chloro lactams **8** and **9**



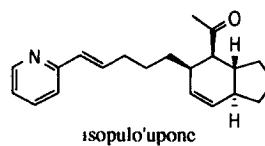
Tetrahedron, 1993, 49, 3203

**Predator - Prey Relationship between *Navanax inermis*
and *Bulla gouldiana* a Chemical Approach**

Aldo Spinella, Luis A. Alvarez and Guido Cimino
Istituto per la Chimica di Molecole di Interesse Biologico, C.N.R.
Via Tolano, 6 - 80072 Arco Felice (NA) - Italy



The same pattern of secondary metabolites, including the new 5,6-dehydroaglajne-3 and isopulo'upone, from *N. inermis* and from *B. gouldiana* supports a predator-prey relationship between the two Pacific cephalaspidean molluscs

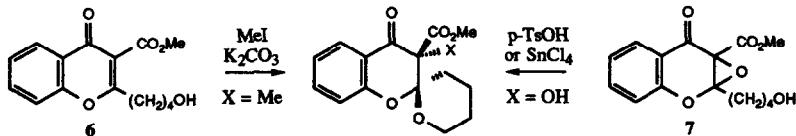


**PREPARATIVE ROUTES TO SPIROACETALS DERIVED FROM CHROMAN-4-ONE
(2,3-DIHYDRO-4H-1-BENZOPYRAN-4-ONE)**

Peter J Cremmins, Roy Hayes, and Timothy W Wallace*

Department of Chemistry and Applied Chemistry, University of Salford, Salford M5 4WT, U.K.

The chromone **6** is transformed into two spiroacetals on treatment with iodomethane/base, the process involving sequential intramolecular conjugate addition and enolate alkylation. The corresponding 2,3-epoxide **7** undergoes spirocyclisation to two hydroxyesters when treated with acids



EXCHANGE OF THE VALINE 2-H IN THE BIOSYNTHESIS

Tetrahedron, 1993, 49, 3221

OF L- δ -(α -AMINOADIPOYL)-L-CYSTEINYLD-VALINE

Jack E Baldwin*, Michael F Byford, Robert A Field, Chia-Yang Shiau, Wendy J Sobey and Christopher J Schofield, The Dyson Perrins Laboratory and the Oxford Centre for Molecular Science, South Parks Road, Oxford OX1 3QY, U.K.

Epimerisation of the valine α -carbon by ACV synthetase was demonstrated by loss of deuterium from [2- ^2H]-valine and incorporation from D_2O into the valinyl residue

