

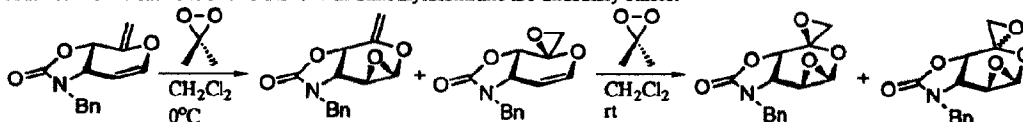
GRAPHICAL ABSTRACTS

Tetrahedron Letters, 1994, 35, 9131

**EPOXIDES DERIVED FROM PYRANOSYL DIENES:
UNUSUALLY STABLE GLYCOSYL DONORS.**

J. T. Link, Gayle Schulte, and Samuel J. Danishefsky*
Department of Chemistry, Yale University, New Haven, Connecticut 06511-8118

A pyranosyl diene potentially useful in a total synthesis of staurosporine has been synthesized. The mono-epoxides and bis-epoxides obtained from treatment of this diene with dimethyldioxirane are unusually stable.

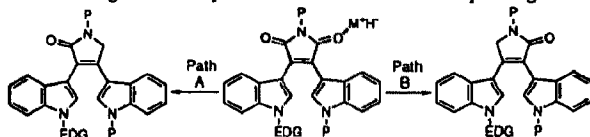


Tetrahedron Letters, 1994, 35, 9135

**Regioselective Imide Reduction:
An Issue in the Total Synthesis of Staurosporine.**

J. T. Link and Samuel J. Danishefsky*
Department of Chemistry, Columbia University, New York, NY 10027

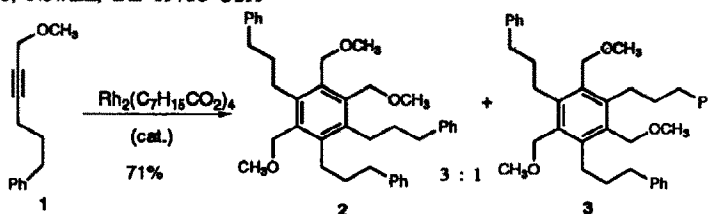
An imide was regioselectively reduced to either of its corresponding lactams which can be converted into the aglycone of staurosporine.



Tetrahedron Letters, 1994, 35, 9139

HEXASUBSTITUTED BENZENES BY ALKYNE CYCLOTTRIMERIZATION
Douglass F. Taber and Mohammed Rahimizadeh, Department of Chemistry &
Biochemistry, University of Delaware, Newark, DE 19716 USA

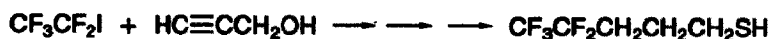
Rhodium octanoate is shown to be an efficient catalyst for the cyclotrimerization of alkyne 1 to a statistical mixture of 2 and 3.



Tetrahedron Letters, 1994, 35, 9141

Laboratory Scale Preparation of 4,4,5,5,5-pentafluoropentan-1-thiol: An Important Chain of Anti-Breast Cancer Agents. Xun Li, Louis Provencher and Shankar M. Singh,* Medicinal Chemistry Division, Laboratory of Molecular Endocrinology CHUL Research Center, Québec City, Québec G1V 4G2, Canada

An efficient synthesis is described to prepare the title compound in gram quantities.

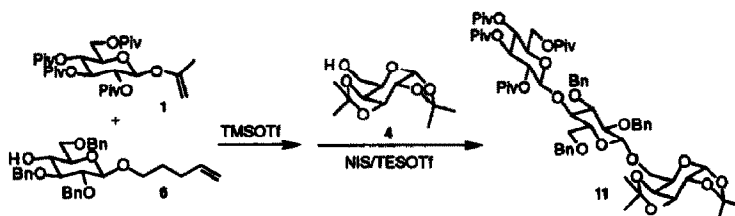


Glycosyl Transfer by Isopropenyl Glycosides: Trisaccharide Synthesis in One Pot by Selective Coupling of Isopropenyl and *n*-Pentenyl Glycopyranosides

Tetrahedron Letters, 1994, 35, 9145

H. Keith Chenault* and Alfredo Castro
Department of Chemistry and Biochemistry
University of Delaware, Newark, DE 19716

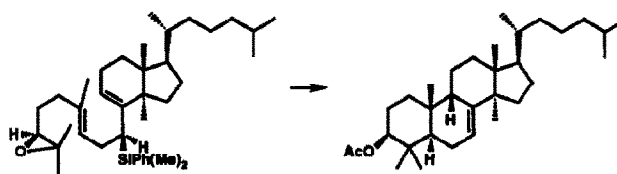
O-Isopropenyl glycosides react to give β -glycosides in good yields. Selective glycosylation of **6** by **1** allows **11** to be synthesized by two successive glycosylations performed in a single pot.



First Demonstration of a Carbocation-Olefin Cyclization Route to the Lanosterol Series

Tetrahedron Letters, 1994, 35, 9149

E. J. Corey,* Jaemoon Lee and
David R. Liu
Department of Chemistry
Harvard University
Cambridge, Massachusetts 02138

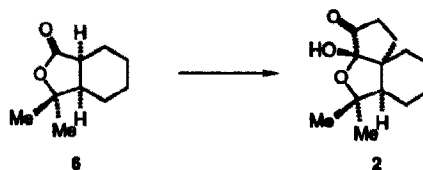


Efficient Stereocontrolled Synthesis of the ABC Subunit of Dumsin

Tetrahedron Letters, 1994, 35, 9153

Fang-Tsao Hong and Leo A. Paquette*
Evans Chemical Laboratories, The Ohio State University, Columbus, Ohio 43210

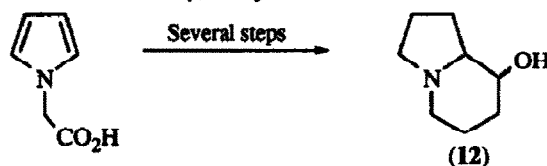
The known lactone **6** has been transformed into **2** in six steps. The intermediate stages proceed with complete stereoselectivity, with three-dimensional details established by X-ray crystallography.



A Simple Route to the Indolizidine Alkaloid Skeleton.

Tetrahedron Letters, 1994, 35, 9157

Derek H. R. Barton,* Maria M. M. Aratjo Pereira and Dennis K. Taylor.
Department of Chemistry, Texas A&M University, College Station TX 77843-3255, USA.



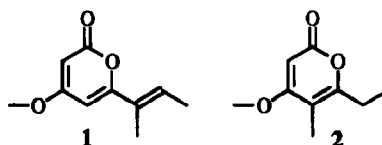
The Barton-Ester (PTOC) methodology allows for the high yielding synthesis of the indolizidine alkaloid skeleton **12**.

NEW NECTRIAPYRONES BY SALT WATER CULTURE OF A FUNGUS SEPARATED FROM AN INDO-PACIFIC SPONGE

Leif M. Abrell, Xing-Chung Cheng and Phillip Crews*

Dept. of Chemistry and Biochemistry and Institute for Marine Sciences, University of California, Santa Cruz, CA 95064 USA

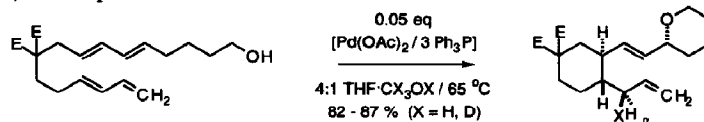
The salt water culture of an unidentified fungus separated from an Indo-Pacific marine sponge has yielded new tetraketide natural products, demethyl nectriapyrone A (1) and nectriapyrone B (2).



CATALYTIC PALLADIUM-MEDIATED TETRAENE CARBOCYCLIZATIONS: DIASTEREOSELECTIVE DEUTERATION AND ITS CONVENIENT ANALYSIS BY A DSPT NMR EXPERIMENT. James M. Takacs,* Sithamali V.

Chandramouli and Richard Shoemaker, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304

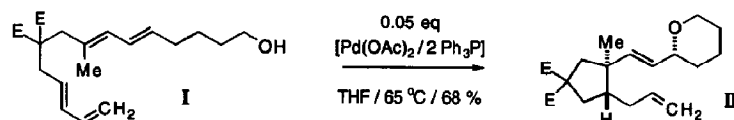
In the presence of a deuterium source certain tetraenes undergo palladium-catalyzed cyclization/intramolecular trapping with stereoselective deuteration exocyclic to the newly formed carbocycle. Diastereoselectivity is established by the novel application of a difference spin polarization transfer (DSPT) NMR experiment.



CATALYTIC PALLADIUM-MEDIATED TETRAENE CARBOCYCLIZATIONS: THE EFFICIENT STEREOCHEMICAL CONTROL OF NEWLY-FORMED METHYL-BEARING STEREOCENTERS.

James M. Takacs* and Sithamali V. Chandramouli, Department of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304

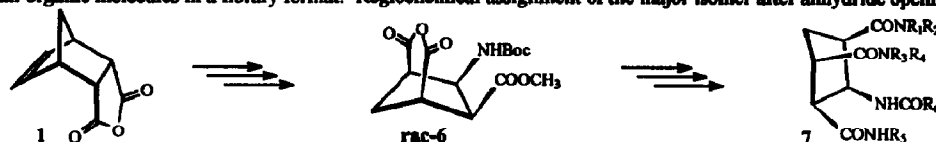
Tetraene substrates bearing a trisubstituted double bond as part of one of the diene subunits undergo palladium-catalyzed cascade cyclization to afford products in which a new methyl-bearing stereocenter is generated in a stereoselective fashion (e.g., I to II).



All-cis Cyclopentane Scaffolding for Combinatorial Solid Phase Synthesis of Small Non-Peptide Compounds

Marcel Pátek, Brian Drake and Michal Lebl, Selectide Corporation, 1580 E. Hanley Blvd., Tucson, AZ 85737

Racemic all-cis substituted anhydride 6 was used for synthesis of model compounds 7 to demonstrate the feasibility of synthesis of small organic molecules in a library format. Regiochemical assignment of the major isomer after anhydride opening is described.

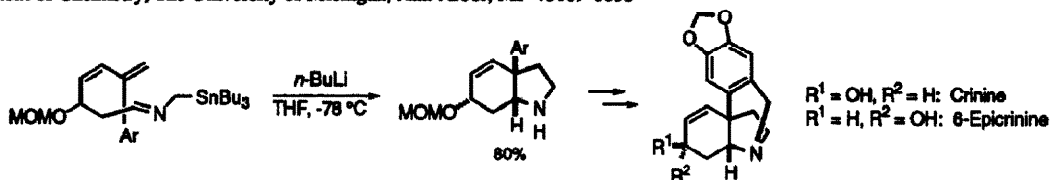


APPLICATION OF THE 2-AZAALLYL ANION CYCLOADDITION METHOD TO SYNTHESIS OF (±)-CRININE AND (±)-6-EPICRININE

William H. Pearson* and Frank E. Lovering

Department of Chemistry, The University of Michigan, Ann Arbor, MI 48109-1055

Tetrahedron Letters, 1994, 35, 9173



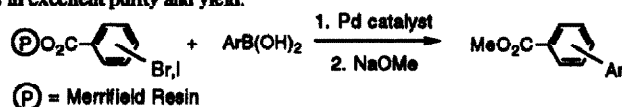
Biaryl Synthesis via Suzuki Coupling on a Solid Support

Richard Frenette and Richard W. Friesen*

Department of Medicinal Chemistry, Merck Frosst Centre for Therapeutic Research,
P.O. Box 1005, Pointe Claire-Dorval, Québec Canada H9R 4P8

Tetrahedron Letters, 1994, 35, 9177

Aryl halides bound to a Merrifield resin undergo Suzuki cross-coupling with aryl boronic acids. Transesterification releases biaryl esters in excellent purity and yield.

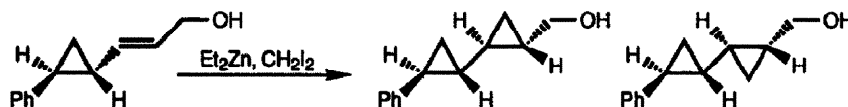


DIASTEREOSELECTIVE SYNTHESIS OF BICYCLOPROPANES

Cory R. Theberge and Charles K. Zercher,* Department of Chemistry,
University of New Hampshire, Durham, NH 03824

Tetrahedron Letters, 1994, 35, 9181

Diastereoselective cyclopropanation of a trans-substituted vinyl cyclopropane was studied. The stereochemistry of the major and minor isomers was assigned by diastereoselective synthesis of the two isomers.



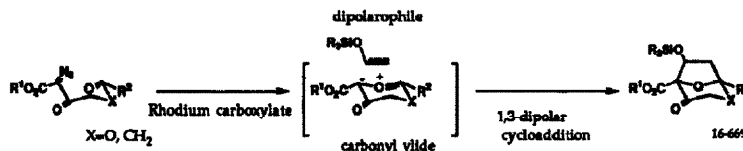
A Novel Synthetic Approach Toward the Zaragozic Acids Core Structure

Hiroo Koyama*, Richard G. Ball, and Gregory D. Berger

Merck Research Laboratories, P. O. Box 2000, Rahway, NJ 07065-0900

Tetrahedron Letters, 1994, 35, 9185

An approach via 1,3-dipolar cycloaddition to the carbonyl ylide is described. The substituent effect of the dipolarophiles is also discussed.

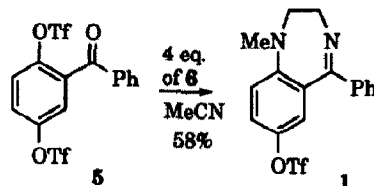


A Direct Preparation of 1,4-Benzodiazepines. The Synthesis of Medazepam and Related Compounds via a Common Intermediate

George A. Kraus* and Hiroshi Maeda

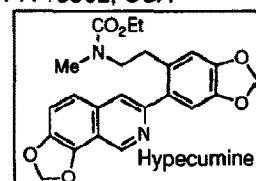
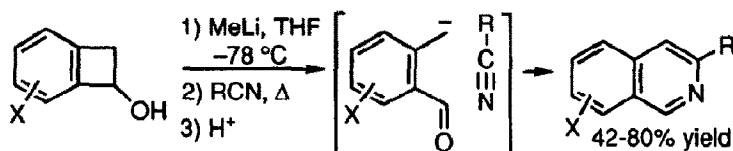
Department of Chemistry, Iowa State University, Ames, Iowa 50011

The benzodiazepine skeleton was prepared from benzoquinone in three steps. Medazepam was synthesized.

**REACTION OF BENZOCYCLOBUTENOXIDES WITH NITRILES: SYNTHESIS OF HYPECUMINE AND OTHER 3-SUBSTITUTED ISOQUINOLINES.**

John J. Fitzgerald, Forrest E. Michael, and R. A. Olofson*

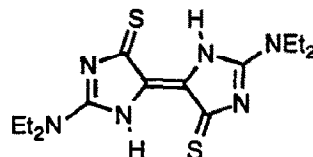
Department of Chemistry, The Pennsylvania State University, University Park, PA 16802, USA

**THE FIRST DITHIONO DERIVATIVE OF AN INDIGOID SYSTEM**

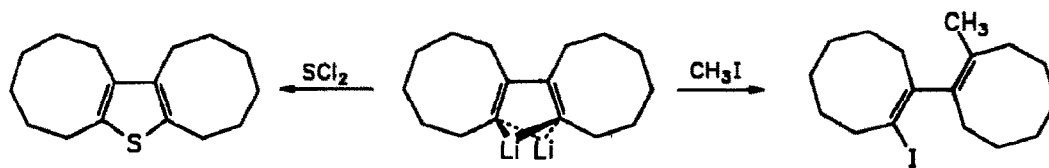
Rudolf Gompper, Karsten Hartmann, Kurt Polborn

Institut für Organische Chemie, Universität München, Karlstraße 23, D-80333 München

2,6-Bis-diethylamino-3,4,7,8-tetrahydro-1,3,5,7-tetraaza-fulvalene-4,8-dithione is the first dithiono derivative of an indigoid system

**2,2'-DILITHIO-1,1'-BICYCLOOCTENYL: SYNTHESIS AND REACTIONS WITH ELECTROPHILES**

Adalbert Maercker and Ulrich Girreser - Institut für Organische Chemie der Universität Siegen, D-57068 Siegen (Germany)

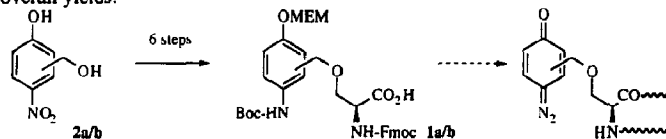


Tetrahedron Letters, 1994, 35, 9199

SYNTHESIS OF N-PROTECTED SERINE ETHERS AS PRECURSORS OF NEW PHOTOACTIVATABLE AMINO ACIDS CLEAVABLE BY HYDROGENOLYSIS.

Christophe Dugave*, Pascal Kessler, Christophe Colas and Christian Hirth†. CEA, DSV, Département d'Ingénierie et d'Etudes des Protéines (DIEP), C.E. Saclay, 91191 Gif-sur-Yvette, France.

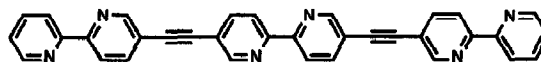
Amino acids **1a/b** were designed as precursors of photoactivatable 4-diazocyclohexa-2,5-dienone containing peptides and were synthesized in 48 / 50 % overall yields.



Tetrahedron Letters, 1994, 35, 9203

PREPARATION OF NOVEL MIXED TRITOPIC OLIGOPYRIDINE LIGANDS BUILT WITH CHELATING SPACERS AND USING PALLADIUM(0) CATALYSED COUPLING REACTIONS

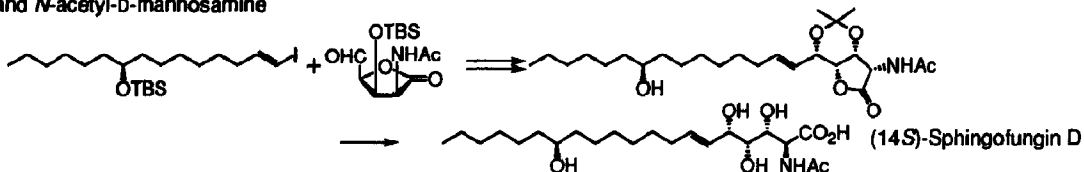
Francisco M. Romero and Raymond Ziessel*
Laboratoire de Chimie, d'Electronique et de Photonique Moléculaires, Ecole Européenne des Hautes Etudes des Industries Chimiques de Strasbourg, IPCMS/URM 46, 1, rue Blaise Pascal, 67008 Strasbourg, France



Tetrahedron Letters, 1994, 35, 9207

SYNTHESIS OF SPHINGOFUNGIN D AND ITS STEREOISOMER AT C-14. Kenji Mori*, Ken Otaka, Department of Agricultural Chemistry, The University of Tokyo, Yayoi 1-1-1, Bunkyo-ku, Tokyo 113, Japan

Sphingofungin D and its stereoisomer at C-14 were synthesized by starting from 1-heptyne, (*R*)-1,2-epoxyoctane and *N*-acetyl-D-mannosamine

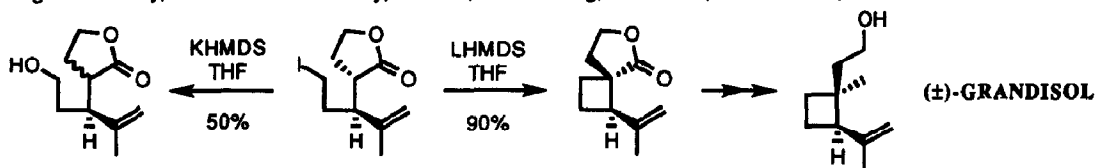


Tetrahedron Letters, 1994, 35, 9211

A STEREOSPECIFIC SYNTHESIS OF (±)-GRANDISOL VIA AN INTRAMOLECULAR LACTONE ENOLATE ALKYLATION: A REMARKABLE REGIODIVERGENCE IN C- VS O-ALKYLATION

Deukjoon Kim*, Young Shin Kwak and Kye Jung Shin

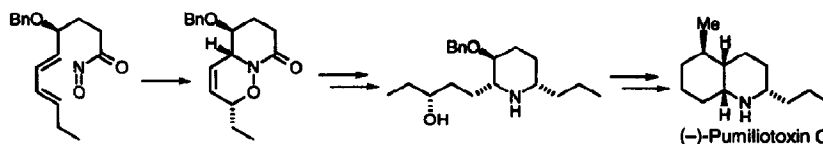
College of Pharmacy, Seoul National University, San 56-1, Shinrim-Dong, Kwanak-Ku, Seoul 151-742, Korea



Total Synthesis of (-)-Pumiliotoxin C by Aqueous Intramolecular Acylnitroso Diels-Alder Approach

Masaichi Naruse, Sakae Aoyagi, and Chihiro Kibayashi*
Tokyo College of Pharmacy, Horinouchi, Hachioji, Tokyo 192-03, Japan

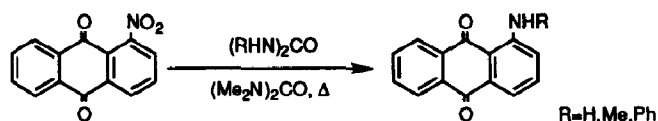
(-)-Pumiliotoxin C has been synthesized utilizing an aqueous intramolecular hetero Diels-Alder reaction of a chiral acylnitroso compound as a key feature.



Non-reductive Conversion of 1-Nitro-9,10-anthraquinone to 1-Amino-9,10-anthraquinones Using Ureas in *N,N,N',N'*-Tetramethylurea (TMU).

H. Suzuki*, T. Kawakami, Department of Chemistry, Faculty of Science, Kyoto University, Kyoto 606-01, Japan;
K. Maeda, Central Research Institute, Nissan Chemical Industries, Ltd., Funabashi, Chiba 274, Japan

Reaction of the title nitroquinone with excess of ureas in hot TMU leads to the corresponding aminoquinones.



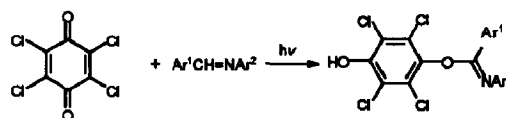
PHOTOINDUCED REACTIONS OF CHLORANIL WITH AROMATIC IMINES

Chuan-Feng Chen, Zhao-Guo Zhang, Bao-Zhen Yan* and Jian-Hua Xu*

Department of Chemistry, Nanjing University, Nanjing 210093, China

*Department of Applied Chemistry, Beijing Institute of Chemical Technology, Beijing 100029, China

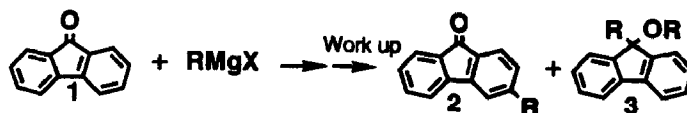
Photoinduced reactions of chloranil with Schiff bases 1-7 gave the aryl esters of aryl benzenecarboximidic acids 8-14 respectively.



DOES THE REACTION BETWEEN FLUORENONE AND GRIGNARD REAGENTS INVOLVE FREE FLUORENONE ANION RADICALS?

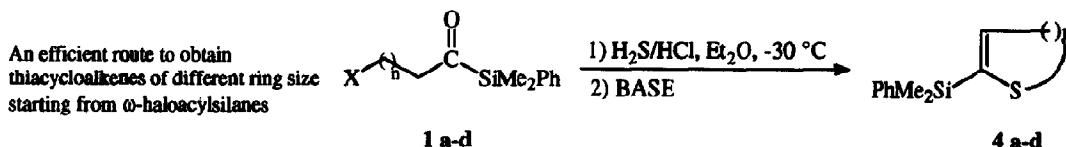
Torben Lund, Morten L. Pedersen and Lars A. Frandsen, Institute of Chemistry, University of Roskilde, DK-4000.

The ratio between 2 and 3 in the reactions of electrogenerated fluorenone anion radicals with RX in THF were similar to the ratio obtained in the Grignard reaction of fluorenone with RMgX in THF.



A NEW SYNTHETIC METHOD FOR 2-SILYL-THIACYCLOALK-2-ENES OF DIFFERENT RING SIZE BY INTRAMOLECULAR CYCLIZATION THROUGH SILYL THIONES.

B. F. Bonini*, M. Comes-Franchini, G. Mazzanti, A. Ricci, L. Rosa-Fauzza, P. Zani
Dipartimento di Chimica Organica "A. Mangini", Facoltà di Chimica Industriale, Viale Risorgimento 4, 40136 Bologna, Italy

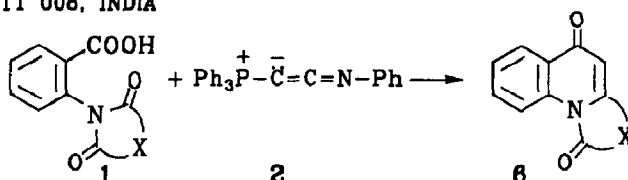


AN EFFICIENT SYNTHESIS OF QUINOLONES USING N-PHENYL(TRIPHENYLPHOSPHORANYLIDENE)ETHENIMINE

Pradeep Kumar*, Chimmanamada U. Dinesh and Bipin Pandey

National Chemical Laboratory, Pune-411 008, INDIA

Coupling of *N*-substituted anthranilic acid **1** with phosphacumulene ylide **2** provides an efficient entry into quinolones, via intramolecular Wittig reaction.

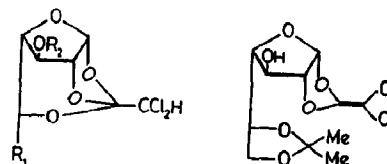


Tricyclic Ortho Ester Formation from Trichloroethylidene Acetals of Sugars via Ketene Acetals

Yeşim Gül Salman, Ömür Makinabakan, Levent Yüceer

Faculty of Science, Department of Chemistry,
Ege University, Bornova-Izmir-Turkey

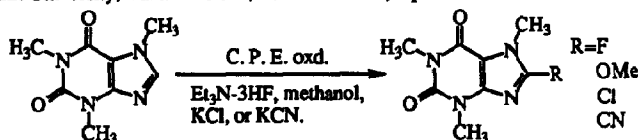
One step formation of tricyclic ortho esters from trichloroethylidene acetals of D-galactose and D-arabinose are described. An intermediate ketene acetal was obtained from the suitably protected acetal.



FUNCTIONALISATION INCLUDING FLUORINATION OF CAFFEINE, GUANOSINE TETRAACETATE, AND URIDINE TRIACETATE USING ELECTROCHEMICAL OXIDATION

Masakazu Sono*, Naoko Toyoda, Yoshikazu Shizuri, and Motoo Tori
Faculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro cho, Tokushima 770, Japan

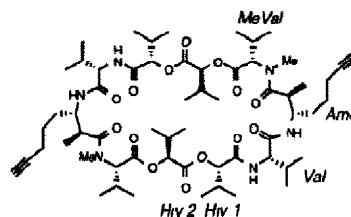
Electrochemical oxidation of caffeine with $\text{Et}_3\text{N}\cdot 3\text{HF}$, methanol, KCl or KCN yielded 8-fluorocaffeine, 8-methoxycaffeine, 8-chlorocaffeine, or 8-cyanocaffeine, respectively.



ONCHIDIN: A CYTOTOXIC DEPSIPEPTIDE WITH C₂

SYMMETRY FROM A MARINE MOLLUSC. Jaime Rodríguez¹, Rogelio Fernández¹, Emilio Quiñó¹ and Ricardo Riguera^{1*} and Cécile Debitus² and Philippe Bouchet³. ¹Departamento de Química Orgánica, Facultad de Química, Universidad de Santiago de Compostela. 15706, Santiago de Compostela, Spain. FAX 34-81-591091. ²Centre ORSTON, B. P. AS, Nouméa, Cedex, New Caledonia. ³Museum National d'Histoire Naturelle, Paris, France.

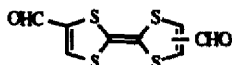
Onchidin is a cytotoxic depsipeptide isolated from the pulmonate mollusc *Onchidium* sp. It is cyclo (MeVal-Amo-Val-Hiv-Hiv-MeVal-Amo-Val-Hiv-Hiv) and has C₂-symmetry and this makes one half homotopic to the other so only signals for a "monomer" can be seen in the NMR spectra. The structure and absolute stereochemistry (all S) of onchidin was determined by extensive spectroscopic analysis, selective hydrolysis and chiral GCMS.



THE SYNTHESIS OF 4,4'(5')-DIFORMYL TETRATHIAFULVALENE

Raquel Andreu^a, Javier Garín^{a*}, Jesús Orduna^a, María Savirón^a, Jack Cousseau^b, Alain Gorgues^{a,b}, Vincent Morisson^b, Tomasz Nozdryn^b, Jan Becher^c, Rasmus P. Clausen^c, Martin R. Bryce^{a,d}, Peter J. Skabara^d and Wim Dehaen^e.

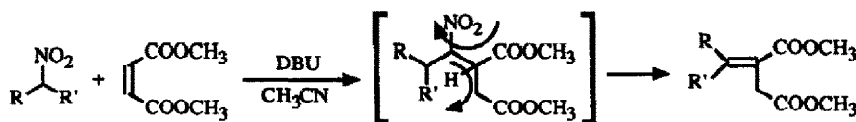
^a Departamento de Química Orgánica, ICMA, Universidad de Zaragoza-CSIC, E-50009 Zaragoza, Spain ^b IMMO, EP66 CNRS, Université d'Angers, 2 Bd. Lavoisier, F-49045 Angers, France ^c Department of Chemistry, Odense University, DK-5230 Odense M, Denmark ^d Department of Chemistry, University of Durham, Durham DH1 3LE, UK ^e Department of Chemistry, University of Leuven, Celestijnenlaan 200F, B-3001 Heverlee, Belgium.



The synthesis of the title compound, by three different routes, is described for the first time.

MICHAEL ADDITION OF NITROALKANES TO DIMETHYL MALEATE WITH DBU. A NEW DIRECT METHOD FOR THE SYNTHESIS OF POLYFUNCTIONALIZED

α,β -UNSATURATED ESTERS. Roberto Ballini^a, and Alessandro Rinaldi. Dipartimento di Scienze Chimiche dell'Università, Via S. Agostino n. 1, 62032 Camerino - I. Michael addition of nitroalkanes to dimethyl maleate, in acetonitrile and with DBU as base, affords, directly, polyfunctionalized α,β -unsaturated esters, via elimination of nitrous acid.



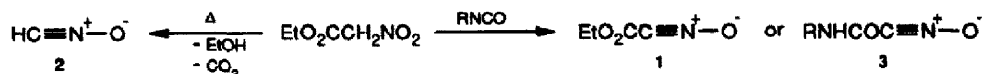
DIVERGENT BEHAVIOUR IN THE ISOCYANATE-INDUCED AND THERMAL GENERATION OF NITRILE OXIDES FROM ETHYL NITROACETATE

Morag G. Leslie-Smith,^a R. Michael Paton^{a*} and Nigel Webb^b

^a Department of Chemistry, The University of Edinburgh, West Mains Road, Edinburgh, EH9 3JJ, UK

^b Castrol International, Technology Centre, Whitchurch Hill, Pangbourne, Reading, RG8 7QR, UK

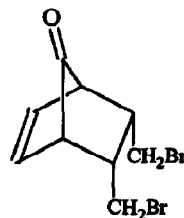
Ethyl nitroacetate provides a source of three nitrile oxides (1-3) depending on the reaction conditions



DESIGNED NUCLEOPHILIC ATTACK BASED ON MOLECULAR ELECTROSTATIC POTENTIAL György M. Keserü, Research Group for Alkaloid Chemistry, Hungarian Academy of Sciences, P.O.Box 91, H-1521 Budapest, Hungary, Mária Kajtár-Peredy, Central Research Institute for Chemistry, Hungarian Academy of Sciences, P.O.Box 17, H-1521 Budapest, Hungary, Gábor Náray-Szabó, * Department of Theoretical Chemistry, Eötvös University Budapest, P.O. Box 32, H-1518 Budapest 112, Hungary

Molecular electrostatic potential-based computer-aided design of the steric preference in a nucleophilic attack on the sterically unbiased carbonyl group of 2,3-bis(bromomethyl)-5,6-norbornen-7-one and 2,3-bis(bromomethyl)-norbornan-7-one.

Tetrahedron Letters, 1994, 35, 9255

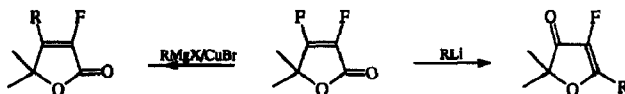


A Novel Rearrangement Induced by the Addition of Organyllithium Reagents to 2,3-Difluoro-4,4-dimethylbut-2-enolide

Oldřich Paleta^a, Andrew Pelter^b and Josef Kadrle^a

^a Department of Organic Chemistry, Prague Institute of Chemical Technology, Technická 5, 16628 Prague 6, Czech Republic.

^b Department of Chemistry, University of Wales, Swansea, Singleton Park, Swansea SA2 8PP, UK.

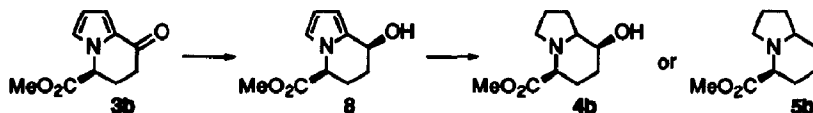


Tetrahedron Letters, 1994, 35, 9259

THE ORIGINS OF CHEMOSELECTIVITY IN THE HYDROGENATION OF INDOLIZIDINE PRECURSORS

Timothy J. Bond, Robert Jenkins and Paul C. Taylor^a, Department of Chemistry, University of Warwick, Coventry, CV4 7AL, UK.

It is proposed that the result of the hydrogenation of α -ketopyrrole 3b depends on the relative rates of (a) hydrogenation of and (b) iminium ion formation from intermediate alcohol 8.

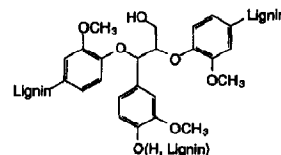


Tetrahedron Letters, 1994, 35, 9263

APPLICATION OF THREE-DIMENSIONAL HMQC-HOHAHA NMR SPECTROSCOPY TO WOOD LIGNIN, A NATURAL POLYMER.

Ilkka Kilpeläinen^a and Erja Ämmälähti, Institute of Biotechnology, P.O. Box 45, FIN-00014 University of Helsinki, Finland. Gösta Brunow, Department of Chemistry, P.O. Box 6, FIN-00014 University of Helsinki, Finland. Danielle Robert, Centre D'Études Nucleaires de Grenoble, 85X, 38041 Grenoble Cedex, France.

Three-dimensional HMQC-HOHAHA experiment gives unambiguous assignments for lignin side-chain structures. By this technique it was possible to show, for the first time, that α,β -diaryl ether structures are present at low abundance in an isolated poplar wood lignin preparation.



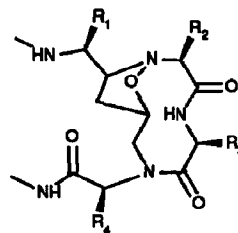
Tetrahedron Letters, 1994, 35, 9267

**PEPTIDE BACKBONE-TO-BACKBONE
CYCLISATION AS AN AVENUE TO β -TURN MIMICS**

Tetrahedron Letters, 1994, 35, 9271

Pedro H.H. Hermkens,* Theo G.v. Dinther, Colinda W. Joukema,
Gerard N. Wagenaars, Harrie C.J. Ottenheijm
Scientific Development Group, N.V. Organon, P.O. Box 20, 5340 BH, Oss,
The Netherlands

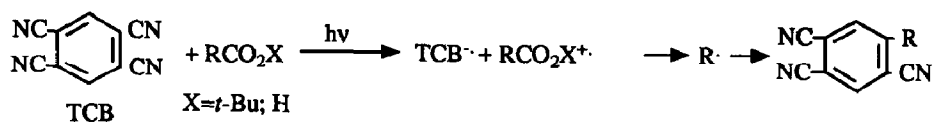
The synthesis of conformationally restricted β -turn mimics via a backbone-to-backbone cyclisation is described.



**ALKYL RADICALS FROM *t*-BUTYL ESTERS THROUGH
PHOTOINDUCED ELECTRON TRANSFER.**

Tetrahedron Letters, 1994, 35, 9275

E.Fasani, D.Peverali, and A. Albini, dept.Organic Chemistry, The University, Pavia, Italy

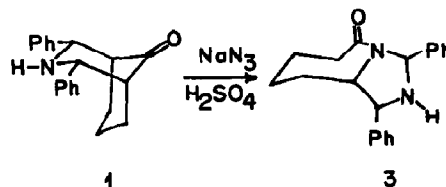


**A NEW REARRANGEMENT OF 2,4-DIPHENYL-3-AZA
BICYCLO[3.3.1]NONAN-9-ONE LEADING TO
8,10-DIPHENYL-1,9-DIAZABICYCLO[5.3.0]DECAN-2-ONE**

Tetrahedron Letters, 1994, 35, 9279

Ramasubbu Jeyaraman* and Udayampalayam P. Senthilkumar
Department of Chemistry, Bharathidasan University
Tiruchirappalli-620 024, India

Treatment of 2,4-diphenyl-3-azabicyclo[3.3.1]nonan-9-one (1) with
hydrazoic acid in CHCl_3 - H_2SO_4 mixture resulted in a new rearrangement
leading to 8,10-diphenyl-1,9-diazabicyclo[5.3.0]decan-2-one (3).

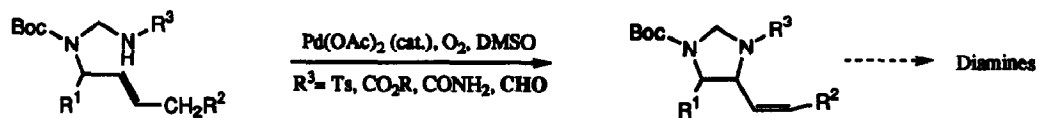


**FORMAMIDE AS A SUPERIOR NITROGEN NUCLEOPHILE IN
PALLADIUM(II) MEDIATED SYNTHESIS OF IMIDAZOLIDINES**

Tetrahedron Letters, 1994, 35, 9281

Rolf A. T. M. van Benthem, Henk Hiemstra,* Gema Rodríguez Longarela and W. Nico Speckamp, Department of Organic Chemistry,
University of Amsterdam, Nieuwe Achtergracht 129, 1018 WS, Amsterdam, The Netherlands

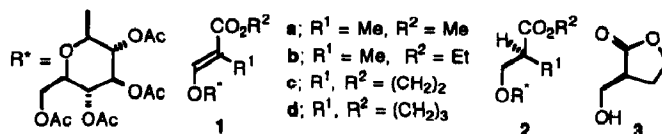
Formamides emerge as superior nitrogen nucleophiles in palladium(II) catalyzed oxidative 5-*exo* cyclizations of formaldehyde amins.



DIASTEREOSELECTIVE HYDROGENATIONS OF α -(2',3',4',6'-TETRA-O-ACETYL- β -D-GLUCOPYRANOSYLOXYMETHYLENE) CARBOXYLIC ESTERS: A ROUTE TO STEREOPURE ALDOL DERIVATIVES

David S. Larsen, Anthony Schofield, Richard J. Stoodley^a and Peter D. Tiffin, Department of Chemistry, UMIST, PO Box 88, Manchester M60 1QD, UK

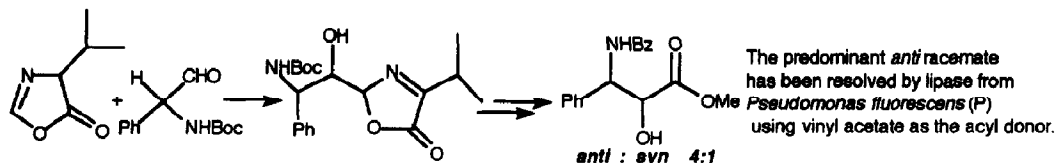
Catalytic hydrogenation of **1a-d** leads predominantly to **2a-d**; acidic hydrolysis of **2c** affords **3** in an enantiopure state.



A CHEMOENZYMATIC APPROACH TO CHIRAL PHENYL-ISOSERINATES USING 4-ISOPROPYL-2-OXAZOLIN-5-ONE AS MASKED UMPELO SYNTHON FOR HYDROXYCARBONYL ANION.

A. Barco^a, S. Benetti^a, C. De Risi^b, G. P. Pollini^b, R. Romagnoli^a and V. Zanirato^b.

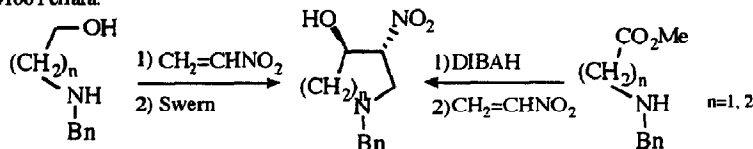
^aDipartimento di Chimica, Via Borsari 46, Ferrara; ^bDipartimento di Scienze Farmaceutiche, Via Fossato di Mortara, 44100 Ferrara



A ONE-POT SYNTHESIS OF NITROHYDROXYLATED PYRROLIDINE AND PIPERIDINE RING SYSTEMS BY TANDEM MICHAEL-HENRY REACTION.

A. Barco^a, S. Benetti^a, C. De Risi^b, G. P. Pollini^b, R. Romagnoli^a and V. Zanirato^b.

^aDipartimento di Chimica, Via Borsari 46, Ferrara; ^bDipartimento di Scienze Farmaceutiche, Via Fossato di Mortara 19, 44100 Ferrara.



TOTAL SYNTHESIS OF (\pm)-EPIBATIDINE.

E. Albertini^a, A. Barco^b, S. Benetti^b, C. De Risi^a, G. P. Pollini^b, R. Romagnoli^b and V. Zanirato^b.

^aDipartimento di Scienze Farmaceutiche, Via Fossato di Mortara 19, 44100 Ferrara,

^bDipartimento di Chimica, Via Borsari 46, 44100 Ferrara.

