

GRAPHICAL ABSTRACTS

Tetrahedron Letters, 1997, 38, 1103

THE SYNTHESIS OF ENANTIOMERICALLY PURE, SYMMETRICALLY SUBSTITUTED CYCLOPROPANE PHOSPHONIC ACIDS - A CONSTRAINED ANALOG OF GABA ANTAGONIST PHACLOPHEN

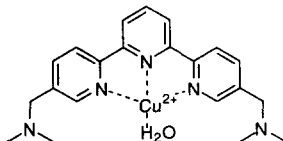
Stephen Hanessian,* Louis-David Cantin, Stéphan Roy, Daniele Andreotti, Arthur Gomtsyan
 Department of Chemistry, Université de Montréal, P.O. Box 6128, Succ. Centre-ville, Montréal, P.Q., Canada, H3C 3J7



Tetrahedron Letters, 1997, 38, 1107

CATALYSIS OF PHOSPHODIESTER TRANSESTERIFICATION BY CU(II)-TERPYRIDINE COMPLEXES WITH PERIPHERAL PENDENT BASE GROUPS: IMPLICATIONS FOR THE MECHANISM. Shanghao Liu and Andrew D. Hamilton,*
 Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260

In this paper we show that copper(II)-terpyridine complexes with peripheral pendent tertiary amino groups catalyze phosphodiester transesterification by general base catalysis. Both the metal-bound hydroxyl group and the pendent amino groups can function as the base, depending on the pH.

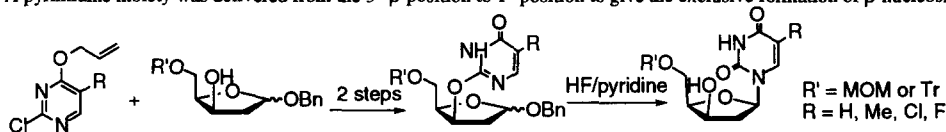


Tetrahedron Letters, 1997, 38, 1111

STEREOCONTROLLED SYNTHESIS OF β -2'-DEOXY PYRIMIDINE NUCLEOSIDES VIA INTRAMOLECULAR

GLYCOSYLATIONS. Xiaoyang Xia, Jianying Wang, Michael W. Hager, Nicholas Sisti and Dennis C. Liotta*, Department of Chemistry, Emory University, 1515 Pierce Drive, Atlanta, GA 30322, USA

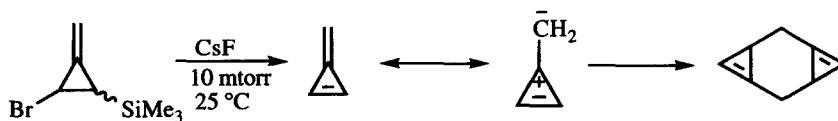
A pyrimidine moiety was delivered from the 3'- β -position to 1'-position to give the exclusive formation of β -nucleosides.



Tetrahedron Letters, 1997, 38, 1115

A NEW METHYLENECYCLOPROPENE SYNTHESIS AND THE ISOLATION OF A NOVEL METHYLENECYCLOPROPENE DIMER.

W. E. Billups,* Christoph Gesenberg, and Roger Cole, Department of Chemistry, Rice University, Houston, Texas 77005



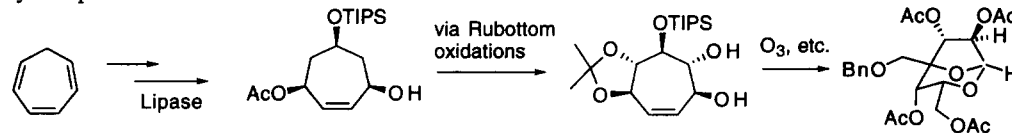
Tetrahedron Letters, 1997, 38, 1117

Chemoenzymatic Studies: From Cycloheptatriene to the Core of Zaragozaic Acids.

Yanping Xu and Carl R. Johnson*

Department of Chemistry, Wayne State University, Detroit, MI 48202-3489 USA

The bicyclic zaragozic acid core was produced in 11 steps and 6.6% overall yield from an enantiopure cycloheptatrienol derivative.

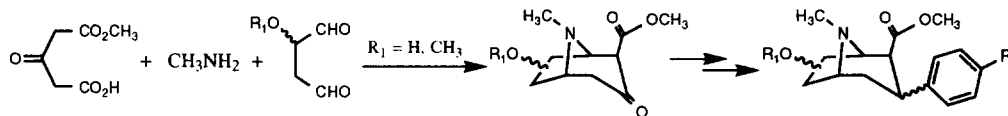


Tetrahedron Letters, 1997, 38, 1121

SYNTHESIS OF 6- OR 7-HYDROXY AND 6- OR 7-METHOXY TROPANES

Zhengming Chen and Peter C. Meltzer,* Organix Inc. 65 Cummings Park, Woburn, MA 01801 USA

A series of 6- and 7- hydroxy and 6- and 7- methoxy 2 β -methoxycarbonyl-3-aryltropanes were synthesized via a novel Mannich type condensation and multiple transformations.

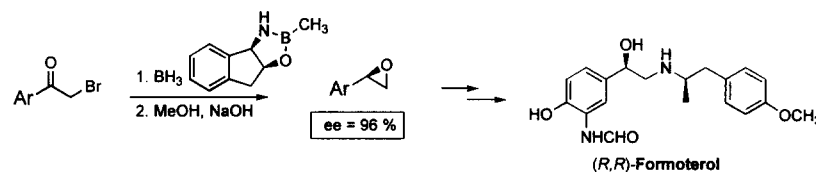


Tetrahedron Letters, 1997, 38, 1125

Enantio- and Diastereoselective Synthesis

of all Four Stereoisomers of Formoterol

Robert Hett*, Qun Kevin Fang, Yun Gao, Yaping Hong, Hal T. Butler, Xiaoyi Nie, Stephen A. Wald, Sepracor Inc., 111 Locke Dr., Marlborough, Massachusetts 01752, U.S.A.

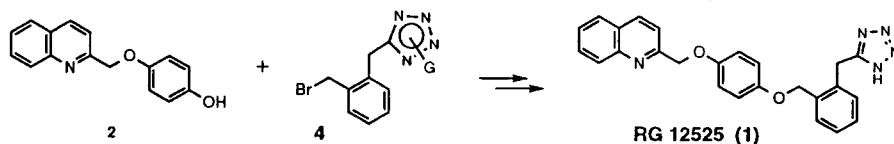


Tetrahedron Letters, 1997, 38, 1129

A Convergent Synthesis of an LTD4 Antagonist, RG12525

Adam W. Stedski*, Michael K. O'Brien, Larry K. Truesdale

Process Chemistry, Rhône-Poulenc Rorer Central Research, PLT, P.O. Box 1200, Collegeville, PA 19426



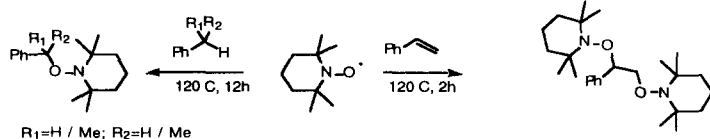
The title compound was prepared through the alkylation of 2 with protected tetrazole synthon 4 (G=CPh₃ or THIP). Preparation of 4, as well as novel preparation of 2 are described.

REACTIONS OF THE "STABLE" NITROXIDE RADICAL TEMPO. RELEVANCE TO "LIVING" FREE RADICAL POLYMERIZATIONS AND AUTOPOLYMERIZATION OF STYRENE.

Terrence J. Connolly and J. C. Scaiano*

Department of Chemistry, University of Ottawa, Ottawa, Ontario, Canada, K1N 6N5

TEMPO was found to readily abstract hydrogen from benzylic substrates and undergo radical addition to styrene.



ELECTROCHEMICAL INVESTIGATION OF THE REDUCING POWER OF SAMARIUM DIIODIDE IN THF AND THE EFFECT OF HMPA COSOLVENT.

Masangu Shabangi and Robert A. Flowers, II*, Department of Chemistry, University of Toledo, Toledo, OH 43606 USA

The oxidation potentials of SmI_2 in THF and SmI_2 containing increasing amounts of HMPA were examined. The effect of HMPA on the reducing power of SmI_2 is reported.

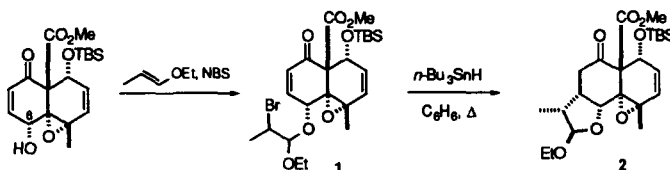
$$E_{ox} \text{SmI}_2(\text{THF}) = -1.33 \text{ V}$$

$$E_{ox} \text{SmI}_2(\text{HMPA})_4 = -2.05 \text{ V}$$

STEREOSELECTIVE APPROACH TO THE DIHYDROAGAROFURAN FRAMEWORK VIA DIRECTED INTRAMOLECULAR RADICAL ADDITION.

James D. White* and Hyunik Shin, Department of Chemistry, Oregon State University, Corvallis, OR 97331 USA

Intramolecular addition of the radical derived from bromo acetal 1 gave 2, containing an *endo* methyl substituent, as the major product.

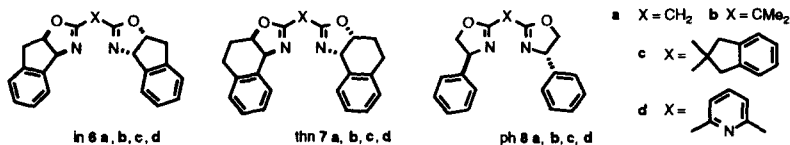


A Conformational Toolbox of Oxazoline Ligands

Ian W. Davies*, Linda Gerena, Dongwei Cai, Robert D. Larsen,

Thomas R. Verhoeven and Paul J. Reider. Process Research, Merck & Co., Inc., P.O. Box 2000, Rahway, NJ 07065.

Bis(oxazolines) 6, 7, and 8 were used to systematically probe conformational effects in asymmetric Diels-Alder and cyclopropanation reactions.

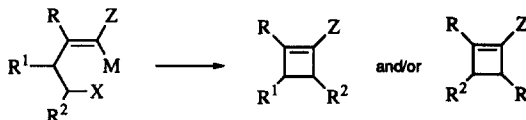


**ON THE REGIOCHEMISTRY OF CYCLIALKYLATION OF
REGIODEFINED 4-HALO-1-ALKENYLMETALS
PRODUCING CYCLOBUTENES**

Tetrahedron Letters, 1997, 38, 1149

Fang Liu and Ei-ichi Negishi

Department of Chemistry
Purdue University
West Lafayette, IN 47907



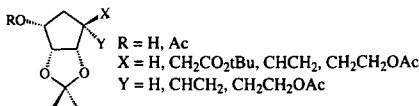
M = Li or Al group. R¹, R² = Me or H. X = I or Br. Z = H or Si group.
The regiochemistry of the reaction depends on the above listed parameters

**Samarium(II) Iodide Mediated Transformations
of Carbohydrate Derived Alkenyl Iodides**

Tetrahedron Letters, 1997, 38, 1153

Zhihong Zhou and Sharon M. Bennett*, Département de chimie,
Université du Québec à Montréal, C.P. 8888, succ. centre - ville, Montréal (Québec), H3C 3P8, Canada

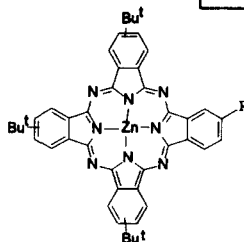
D-Ribonolactone derived acyclic alkenyl iodides react with SmI₂ in THF/HMPA/MeOH at low temperature to give highly functionalized carbocycles. These reactions compare well with the corresponding Bu₃SnH reactions.



**SYNTHESIS OF MONOFUNCTIONALISED
PHTHALOCYANINES USING PALLADIUM
CATALYSED CROSS-COUPLING REACTIONS.** Hasrat
Ali and Johan E. van Lier,* MRC Group in the Radiation
Sciences, Faculty of Medicine, University of Sherbrooke,
Sherbrooke (Québec), Canada J1H 5N4

Tetrahedron Letters, 1997, 38, 1157

The preparation of unsymmetrical monofunctionalised zinc phthalocyanines, using a palladium catalyst and iodophthalocyanine under Heck, Stille and Suzuki reaction conditions, is reported.

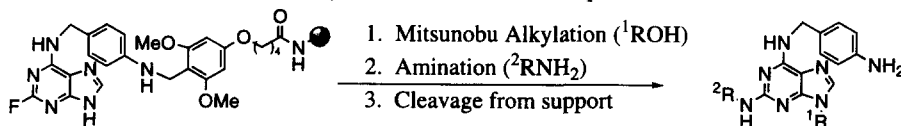


R: C≡CX
X = H, CH₂CH₂OH; C₆H₅; C₆H₄N;
Purine; estrogen
R: C≡CX
X = H, CO₂CH₃; PO(OC₂H₅)₂
R: C₆H₅

**COMBINATORIAL SYNTHESIS OF 2,9-SUBSTITUTED
PURINES.** Nathanael S. Gray, Soojin Kwon, and Peter G. Schultz*,
Howard Hughes Medical Institute, Department of Chemistry,
University of California, Berkeley, CA 94720, USA

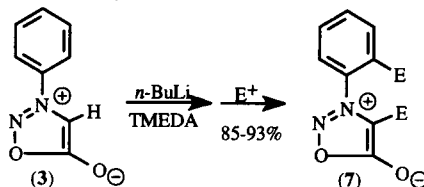
Tetrahedron Letters, 1997, 38, 1161

A method for the combinatorial synthesis of 2,9-substituted purines is described.



THE SYDNONE RING AS AN *ORTHO*-DIRECTOR OF LITHIATION.*Tetrahedron Letters*, 1997, 38, 1165**DILITHIATION OF 3-PHENYLSYDNONE AND TRAPPING BY****ELECTROPHILES.** Kenneth Turnbull* and Douglas M. Krein,
Chemistry Department, Wright State University, Dayton, Ohio 45435, U.S.A.

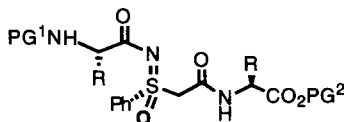
3-Phenylsydnone (3) reacts with *n*-butyllithium / TMEDA to form a presumed dilithio species which can be trapped with suitable electrophiles to form disubstituted sydnones 7 in good yield. This represents the first use of a mesoionic ring system for directed lithiation.

**SULFOXIMINES IN PSEUDOPEPTIDES***Tetrahedron Letters*, 1997, 38, 1169

Carsten Bolm*, Jan D. Kahmann and Guido Moll

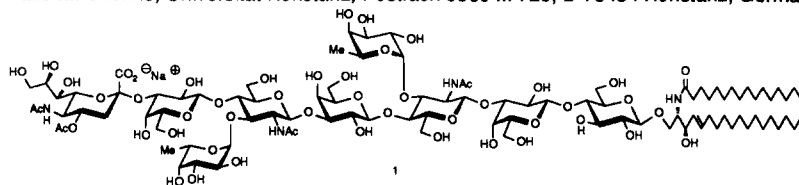
Fachbereich Chemie der Philipps-Universität Marburg, D-35032 Marburg (Germany)

The syntheses of sulfoximine-containing pseudotripeptides are reported. Their capability to form intramolecular hydrogen-bonds has been studied.

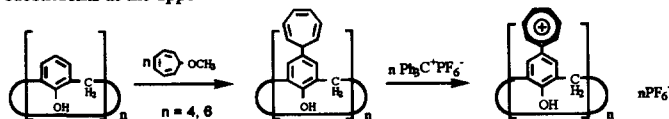
**A Versatile Synthesis of the *lactono*-Series Antigens –
Synthesis of Sialyl Dimer Lewis X and of Dimer Lewis Y***Tetrahedron Letters*, 1997, 38, 1173

Gerd Hummel and Richard R. Schmidt

Fakultät Chemie, Universität Konstanz, Postfach 5560 M 725, D-78434 Konstanz, Germany

**1,3,5-CYCLOHEPTATRIENYL DERIVATIVES OF CALIX[4]- AND
CALIX[6]ARENES AND THEIR CORRESPONDING TROPYLIUM SALTS***Tetrahedron Letters*, 1997, 38, 1177Volker Wendel and Werner Abraham*, Humboldt-University, Institute of Chemistry
D-10115 Berlin, Hessische Str. 1-2, Germany

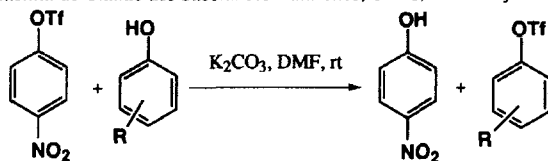
4-[Cycloheptatrienyl-7]-calixarenes were synthesized for the first time. The oxidation affords calixarenes with four or six positively charged substituents at the upper rim.



Tetrahedron Letters, 1997, 38, 1181

4-NITROPHENYLTRIFLATE AS A NEW TRIFLATING AGENT

Jieping Zhu,* Antony Bigot, Marie Elise Tran Huu Dau
Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif-Sur-Yvette, France



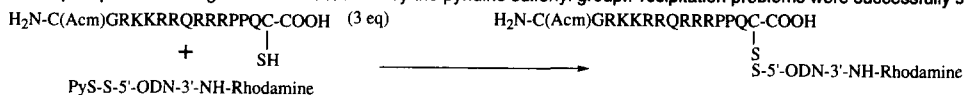
Aryl triflates were prepared under mild conditions using 4-nitrophenyl triflate as a stable, crystalline triflating agent.

Tetrahedron Letters, 1997, 38, 1183

SELECTIVE COUPLING OF A HIGHLY BASIC PEPTIDE TO AN OLIGONUCLEOTIDE

Eric VIVES and Bernard LEBLEU
IGMM, CNRS UMR5535, 1919 Route de Mende, 34033 MONTPELLIER, France.

A highly basic peptide (net charge +8) derived from the HIV-1 Tat protein is conjugated with quantitative yield within minutes to a 19 mer rhodamine-labelled phosphodiester oligonucleotide activated by the pyridine sulfonyl group. Precipitation problems were successfully solved.

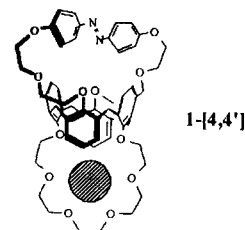


Tetrahedron Letters, 1997, 38, 1187

Synthesis and Characterisation of Two Azobenzene Modified 1,3-Calix[4]-bis-crowns as Artificial Potentially Allosteric Systems.

Mohamed Saadioui, Zouhair Asfari, Jacques Vicens*
E. C. P. M., Laboratoire de Chimie des Interactions Moléculaires
Spécifiques, associé au C. N. R. S., 1, rue Blaise Pascal, F-67008, Strasbourg, France.

We describe the synthesis of azo calix[4]crowns 1-[2,2'] and 1-[4,4'] consisting in *unsymmetrical* 1,3-calix[4]-bis-crowns combining one polyether crown-6 and one azobenzene modified crown-6, O-attached at each side of a calix[4]arene in the 1,3-alternate conformation. Complexation induced changes in the trans/cis ratio of the azobenzene unit of 1-[4,4'] by an allosteric mechanism probably due to conformational changes.

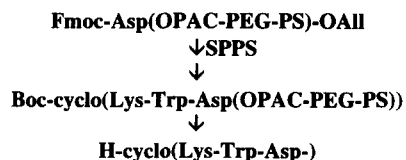


Tetrahedron Letters, 1997, 38, 1191

SOLID-PHASE SYNTHESIS OF "HEAD-TO-SIDE CHAIN" CYCLIC TRIPEPTIDES USING ALLYL DEPROTECTION.

C. Flouzat,
F. Marguerite, F. Croizet, M. Percebois, A. Monteil, M. Combourieu.
RL-CERM, Centre de Recherche et Développement, Rue H. Goudier, B.P. 140. 63203 RIOM Cédex, France

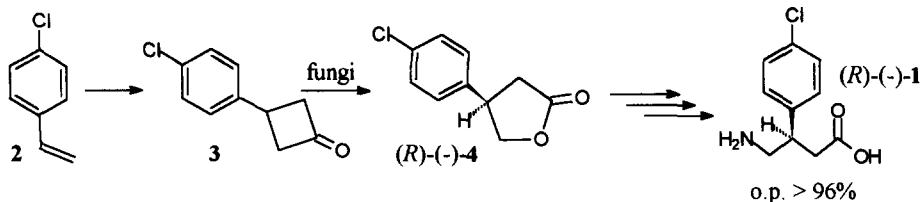
All L and D derivatives of the "head-to-side chain" cyclic tripeptides H-cyclo(L-orD-Lys-L-orD-Trp-L-orD-Asp-) were prepared efficiently by a three dimensional, orthogonal solid-phase protection strategy (Fmoc/Boc/Allyl). The allyl group was removed selectively by palladium(0) catalysis and the cyclization was performed by an automated solid-phase procedure (in-solution cyclization for the D-Asp analogues).



Tetrahedron Letters, 1997, 38, 1195

A Chemoenzymatic Strategy for the Synthesis

of Enantiopure (*R*)-(-)-Baclofen. C. Mazzini, J. Lebreton, V. Alphand, R. Furstoss* - Groupe "Biocatalyse et Chimie Fine", ERS 157 associée au CNRS, Faculté des Sciences de Luminy, Case 901, 163 avenue de Luminy, F - 13288 Marseille Cedex 9 (France)

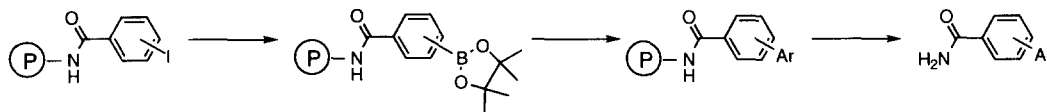


Tetrahedron Letters, 1997, 38, 1197

A NEW APPROACH TO THE SOLID-PHASE SUZUKI COUPLING REACTION.

Serge R. Piettre and Sylvie Baltzer, Marion Merrell Research Institute, Strasbourg Research Center, 16, rue d'Ankara, 67080 Strasbourg, France

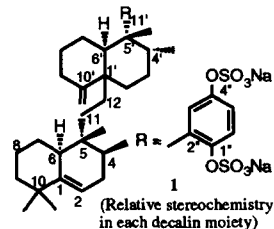
Treatment of polymer-bound aryl iodides with pinacol ester of diboron under palladium catalysis gave the corresponding polymer-bound boronates. The Suzuki coupling reaction was then carried out using a variety of aryl halides. Cleavage from the resin delivered the expected products in usually good yields and high purity.



Tetrahedron Letters, 1997, 38, 1201

AKATERPIN, A NOVEL BIOACTIVE TRITERPENE FROM THE

MARINE SPONGE *CALLYSPONGIA* SP. Akiko Fukami¹, Yoko Ikeda², Shinichi Kondo², Hiroshi Naganawa², Tomio Takeuchi², Shigeki Furuya³, Yoshio Hirabayashi³, Kazuyuki Shimoike⁴, Saburo Hosaka⁴, Yoko Watanabe⁵, and Kazuo Umezawa^{*1} ¹Department of Applied Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi, Kohoku-ku, Yokohama 223, Japan ²Institute of Microbial Chemistry, Kamiosaki, Shinagawa-ku, Tokyo 141, Japan ³Frontier Research Program, The Institute of Chemical and Physical Research (Riken), Hirosawa, Wako, Saitama 351-01, Japan ⁴Akajima Marine Science Laboratory, Aka, Zamami, Okinawa 901-33, Japan ⁵Faculty of Science, Ochanomizu University, Otsuka, Bunkyo-ku, Tokyo 112, Japan
Akaterpin 1, a novel inhibitor of phosphatidylinositol-specific phospholipase C, was isolated from the acetone extract of a marine sponge.

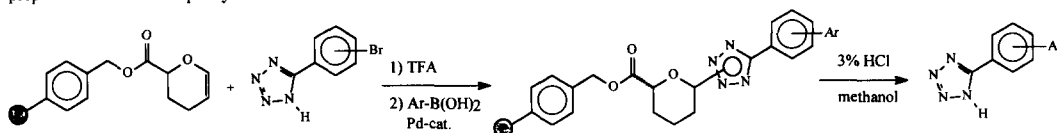


Tetrahedron Letters, 1997, 38, 1203

SOLID PHASE SYNTHESIS OF BIPHENYLTETRAZOLES

Sung-eun Yoo*, Jin-soo Seo, Kyu-yang Yi and Young-dae Gong
Korea Research Institute of Chemical Technology
P.O.Box 107 Yusung, Daejeong Sciencetown, Daejeon, Korea

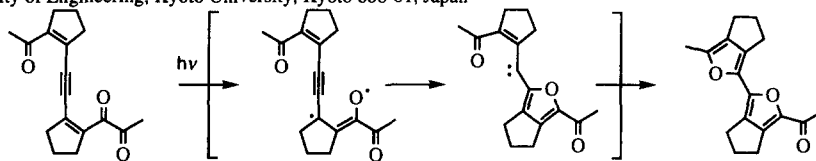
A dihydropyran carboxylic acid type linker is suitable for the solid phase Suzuki type aryl-aryl coupling reaction for the preparation of various biphenyltetrazole derivatives.



Tetrahedron Letters, 1997, 38, 1207

NOVEL SYNTHESIS OF BIFURANS VIA FURAN-FORMING PHOTO-CYCLIZATION OF α -DIKETONES CONJUGATED WITH ENE-YNE

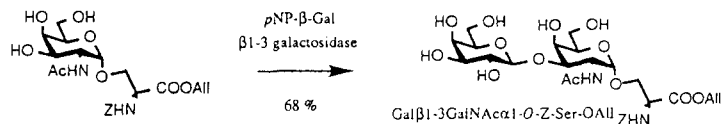
Kazuhiko Nakatani,^{†,‡} Kazuhito Tanabe,[‡] and Isao Saito^{†*}
[†]PRESTO, JRDC, [‡]Department of Synthetic Chemistry and Biological Chemistry,
Faculty of Engineering, Kyoto University, Kyoto 606-01, Japan



Tetrahedron Letters, 1997, 38, 1211

An Efficient Synthesis of a Gal β 1-3GalNAc-Serine Derivative Using β -Galactosidase

Katsuhiko Suzuki^{#1}, Hiroshi Fujimoto^{#1}, Yoshiyuki Ito^{#2}, Takashi Sasaki^{#2} and Katsumi Aji-saka^{#1}, ^{#1}Meiji Institute of Health Science, and ^{#2}Central Research Institute, Meiji Milk Products Co., Ltd, 540 Nanuda, Odawara-shi, Kanagawa, 250 Japan

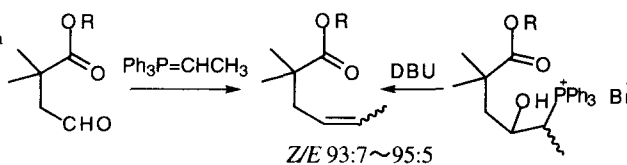


Tetrahedron Letters, 1997, 38, 1215

MECHANISM AND STEREOSELECTIVITY OF INDIRECT WITTIG REACTION VIA ISOLATION OF 1, 2-HYDROXYPHOSONIUM SALT

Mugio Nishizawa,* Yasuko Komatsu, Dulce M. García, Yohko Noguchi, Hiroshi Imagawa, and Hidetoshi Yamada

Faculty of Pharmaceutical Sciences,
Tokushima Bunri University,
Yamashiro-cho, Tokushima 770, Japan

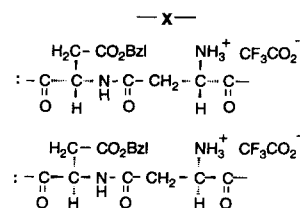
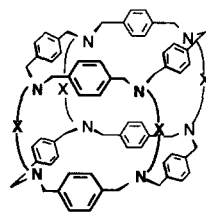


Tetrahedron Letters, 1997, 38, 1219

HOST-GUEST INTERACTIONS OF CAGE-TYPE CYCLOPHANES BEARING CHIRAL BINDING SITES PROVIDED BY DIPEPTIDE RESIDUES

Osamu Hayashida, Akinori Tanaka, Setsuko Fujiyoshi, Yoshio Hisaeda*, and Yukito Murakami*
Department of Chemical Science and Technology, Faculty of Engineering, Kyushu University, Fukuoka 812-81, Japan

Chiral host-guest interactions between cage-type cyclophanes, having β -L-aspartyl-L-aspartyl residues and β -D-aspartyl-D-aspartyl residues individually, and pamoic acid was examined by circular dichroism spectroscopy.



Tetrahedron Letters, **1997**, 38, 1223

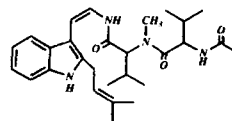
**TERPEPTIN, A NOVEL MAMMALIAN CELL CYCLE INHIBITOR,
PRODUCED BY *Aspergillus terreus* 95F-1.**

Terumi Kagamizono^{a,b}, Noriyoshi Saka^b, Koshi Arai^b, Kimie Kobinata^a, and Hiroyuki Osada^{a,*}

a. The Institute of Physical and Chemical Research (RIKEN), 2-1 Hirosawa, Wako-shi, Saitama, 351-01, Japan

b. Medicinal Research Laboratories, Taisho Pharmaceutical Co., Ltd., 1-403 Yoshino-cho, Ohmiya-shi, Saitama, 330, Japan

Terpeptin, a novel cell cycle inhibitor, was isolated from the cultured broth of *Aspergillus terreus* 95F-1. The structure was elucidated by spectral analyses. Terpeptin showed an inhibitory activity on the cell cycle progression of mouse tsFT210 cells in the G2/M phase.



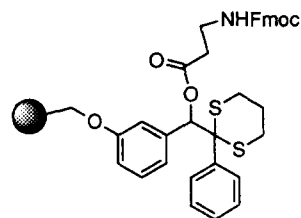
Tetrahedron Letters, **1997**, 38, 1227

**THE USE OF A DITHIANE PROTECTED BENZOIN PHOTOLABILE SAFETY
CATCH LINKER FOR SOLID PHASE SYNTHESIS**

A. Routledge, C. Abell and S. Balasubramanian*

University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW

The dithiane protected benzoïn group is shown to be a useful photolabile safety catch linker for solid-phase synthesis. The rates of photochemical cleavage are studied following different dithiane removal protocols.

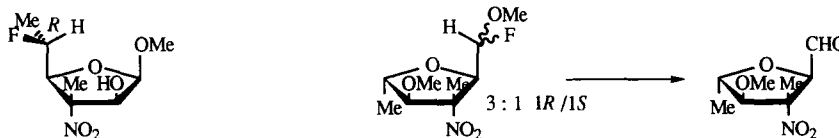


Tetrahedron Letters, **1997**, 38, 1231

**NOVEL REARRANGEMENT REACTIONS IN THE FLUORINATION OF
METHYL 3-C-METHYL-3-NITRO- α -L-HEXOPYRANOSIDES BY THE**

DAST REAGENT. P. Borrachero-Moya, F. Cabrera-Escribano,* M. Gómez-Guillén, and F. Madrid-Díaz. Departamento de Química Orgánica "Profesor García González", Facultad de Química, Universidad de Sevilla. Apartado de correos No. 553, E-41071 Seville, Spain

5-Fluoro- and/or 1-fluoro-3-branched-chain sugar derivatives are prepared. An access to a new aldehydo-sugar is reported.



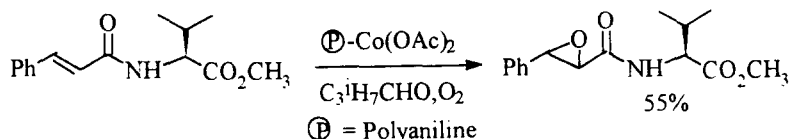
Tetrahedron Letters, **1997**, 38, 1235

**POLYANILINE SUPPORTED COBALT(II) CATALYST : OXIDATION
OF ALKENES WITH MOLECULAR OXYGEN**

Bhaskar C. Das and Javed Iqbal*

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**PREPARATION OF DIPHENYLMETHYL ESTERS BY OXONE[®]
OXIDATION OF BENZOPHENONE HYDRAZONE.**

Massimo Curini,* Ornello Rosati and Emanuela Pisani

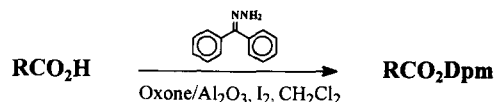
Istituto di Chimica Organica, Facoltà di Farmacia, Università degli Studi, Via del Liceo, I-06123 Perugia, Italy.

Walter Cabri,* Stefano Brusco and Massimiliano Riscuzzi

Bristol Myers Squibb, Chemical Development, Via del Murillo, Km 2.800, I-04010 Sermoneta (LT), Italy.

Tetrahedron Letters, 1997, 38, 1239

The preparation of diphenylmethyl esters is reported



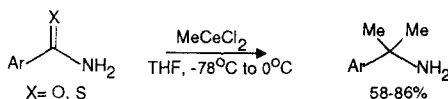
**ORGANOCERIUM REACTIONS OF BENZAMIDES AND
THIOBENZAMIDES: A DIRECT SYNTHESIS OF TERTIARY
CARBINAMINES**

David J. Calderwood *, Roy V. Davies, Paul Rafferty, Helen L. Twigger and
Helen M. Whelan

Department of Medicinal Chemistry, Knoll Pharmaceuticals, Nottingham, NG1 1GF

Reaction of MeCeCl₂ with simple benzamides and thiobenzamides provides a direct synthesis of
tertiary carbinamines.

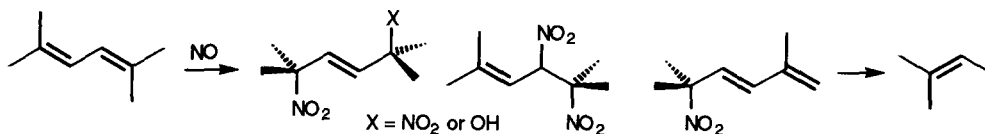
Tetrahedron Letters, 1997, 38, 1241



**THE ADDITION OF NITRIC OXIDE TO 2,5-DIMETHYL-
HEXA-2,4-DIENE GIVES NITROGEN DIOXIDE ADDUCTS**

D. R. Kelly*, S. Jones, J. O. Adigun, K. S. V. Koh and S. K. Jackson^a Department of Chemistry, U.
Wales, Cardiff, P. O. Box 912, Cardiff, CF1 3TB, Wales, UK; ^a Department of Medical Microbiology,
of Wales, College of Medicine, Cardiff, CF4 4XN, Wales, UK

Tetrahedron Letters, 1997, 38, 1245



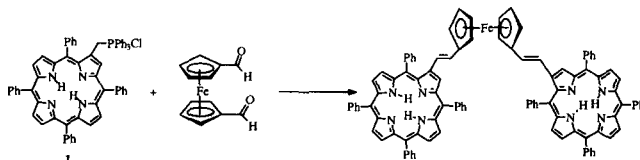
THE SYNTHESIS OF DIMERIC PORPHYRINS LINKED BY A FERROCENE

Anthony K. Burrell*, Wayne Campbell and David L. Officer*

Department of Chemistry, Massey University, Private Bag 11222, Palmerston North, New Zealand

Reactions of (1) with 1,1'-diformylferrocene lead to the formation of dimeric porphyrins.

Tetrahedron Letters, 1997, 38, 1249



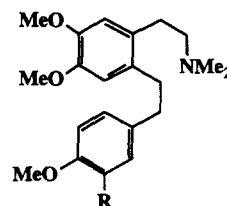
**SECO-BENZYLISOQUINOLINE ALKALOIDS
FROM POLYALTHIA INSIGNIS (ANNONACEAE)**

Kee-Huat Lee, Cheng-Hock Chuah and Swee-Hock Goh*

Department of Chemistry, University of Malaya, 50603 Kuala Lumpur, Malaysia,
and *Department of Chemistry, National University of Singapore, Kent Ridge, Singapore

Novel *seco*-benzylisoquinoline alkaloids, polisignine (1) and methoxypolisignine (2),
and four known aporphine alkaloids were isolated from *Polyalthia insignis*.

Tetrahedron Letters, 1997, 38, 1253



1 : R = H
2 : R = OMe

**A NOVEL APPROACH FOR THE SYNTHESIS OF 5-SUBSTITUTED TETRAZOLE
DERIVATIVES FROM PRIMARY AMIDES IN MILD ONE-STEP METHOD.**

Abdel-Aziz S. El-Ahl, Saad S. Elmorsy*, Akram H. Elbeheery and Fathy A. Amer.

Chemistry Department, Faculty of Science, Mansoura University, Mansoura - EGYPT

Abstract: A new mild one-step method for the conversion of primary acid amides to 5-substituted tetrazoles in nearly quantitative yields employing triazidochlorosilane (TACS) is reported.



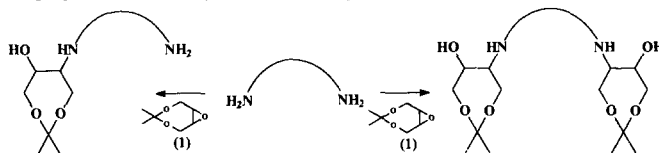
Tetrahedron Letters, 1997, 38, 1257

THE SYNTHESIS OF NOVEL OXYGEN-CONTAINING LIGANDS

DERIVED FROM AMINE PRECURSORS. Charles B. de Koning, Robert D. Hancock and Willem A. L. van Otterlo, Centre for Molecular Design, Department of Chemistry, University of the Witwatersrand, PO Wits 2050, South Africa.

Several oxygen-bearing ligands have been synthesized from epoxide (1) and a number of amine precursors.

Tetrahedron Letters, 1997, 38, 1261



**SYNTHESIS OF TOTALLY CHIRAL, MULTIPLE ARMED,
POLY GLU AND POLY ASP SCAFFOLDINGS ON
BIFUNCTIONAL ADAMANTANE CORE**

Darshan Ranganathan* and Sunita Kurur, Biomolecular Research Unit,
Regional Research Laboratory (CSIR), Trivandrum - 695019, India

Three successive generations of peptidic scaffoldings consisting of two, six and fourteen chiral (all L) centres and four, eight and sixteen carbomethoxy groups, respectively, at the periphery with adamantane nucleus as the central core have been constructed by linking the two halves of corresponding Asp/Glu dendrons by 1,3-bifunctional adamantane unit.

Tetrahedron Letters, 1997, 38, 1265

