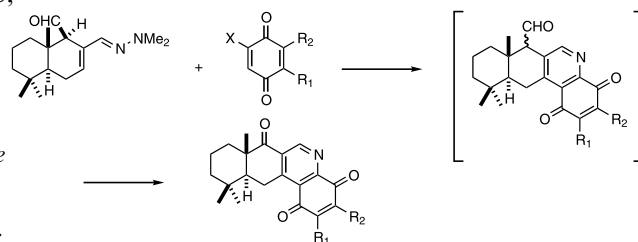


Hetero-Diels–Alder reaction of halogenated quinones with a polygodial-derived azadiene*Tetrahedron Letters 43 (2002) 2127*

Mauricio A. Cuellar, Luz K. Alegría, Yolanda A. Prieto,
Manuel J. Cortés,* Ricardo A. Tapia* and
Marcelo D. Preite*

*Departamento de Química Orgánica, Facultad de Química,
Pontificia Universidad Católica de Chile,
Vicuña Mackenna 4860, Casilla 306, Correo 22, Santiago, Chile*

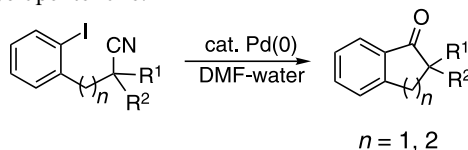
The Diels–Alder reaction between a drimanic azadiene and halogenated quinones, yielding quinolinequinones, is described.

**Synthesis of benzocyclic ketones via palladium-catalyzed cyclization of ω -(2-iodoaryl)alkanenitriles***Tetrahedron Letters 43 (2002) 2133*

Alexandre A. Pletnev and Richard C. Larock*

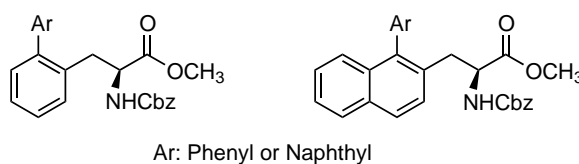
Department of Chemistry, Iowa State University, Ames, IA 50011, USA

An efficient procedure for the synthesis of 2,2-disubstituted benzocyclic ketones by intramolecular carbopalladation of nitriles has been developed. The cyclization of substituted 3-(2-iodoaryl)propanenitriles affords indanones in high yields. The reaction is compatible with a wide variety of functional groups. This chemistry has been extended to the synthesis of tetralones, a 9-fluorenone and a cyclopentenone.

**Design and synthesis of hydrophobic, bulky χ^2 -constrained phenylalanine and naphthylalanine derivatives***Tetrahedron Letters 43 (2002) 2137*

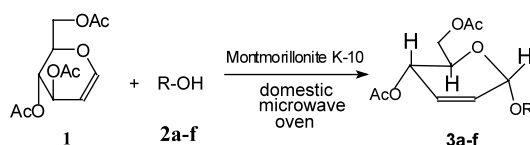
Wei Wang, Junyi Zhang, Chiyi Xiong and Victor J. Hruby*

Department of Chemistry, University of Arizona, Tucson, AZ 85721, USA

**Microwave-induced synthesis of 2,3-unsaturated *O*-glycosides under solvent-free conditions***Tetrahedron Letters 43 (2002) 2141*

Ronaldo N. de Oliveira, João R. de Freitas Filho and Rajendra M. Srivastava*

Departamento de Química Fundamental, Universidade Federal de Pernambuco, Cidade Universitária, 50740-540, Recife, PE, Brazil

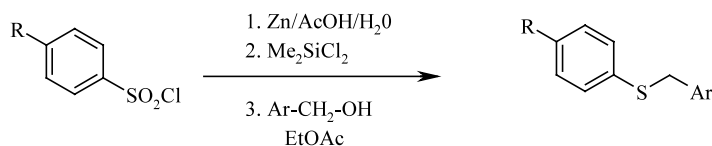


Direct synthesis of thioethers from sulfonyl chlorides and activated alcohols

Tetrahedron Letters 43 (2002) 2145

Michael T. Martin,* Alford M. Thomas and Douglas G. York

GlaxoSmithKline, Chemical Development, Five Moore Drive, PO Box 13398, Research Triangle Park, NC 27709, USA

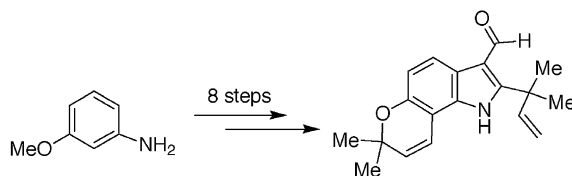


Synthetic studies towards paraherquamide F: synthesis of the 1,7-dihydropyrano[2,3-g]indole ring system

Tetrahedron Letters 43 (2002) 2149

Rhona J. Cox and Robert M. Williams*

Department of Chemistry, Colorado State University, Fort Collins, Colorado 80523, USA



Improved stereospecific synthesis of the *trans*-isomers of dicyclohexano-18-crown-6 and the solid-state structure of the *trans-syn-trans*-isomer

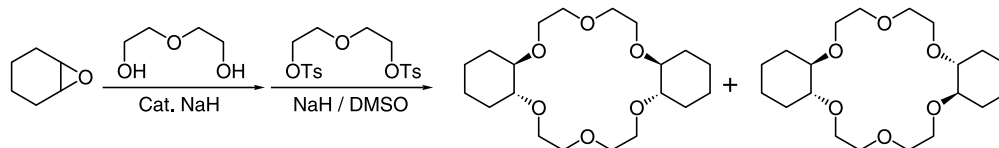
Tetrahedron Letters 43 (2002) 2153

Kazuhiro Yamato,^a Richard A. Bartsch,^{a,*} Mark L. Dietz^b and Robin D. Rogers^c

^aDepartment of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409-1061, USA

^bChemistry Division, Argonne National Laboratory, Argonne, IL 60439-4831, USA

^cDepartment of Chemistry, The University of Alabama, Tuscaloosa, AL 35487-0336, USA

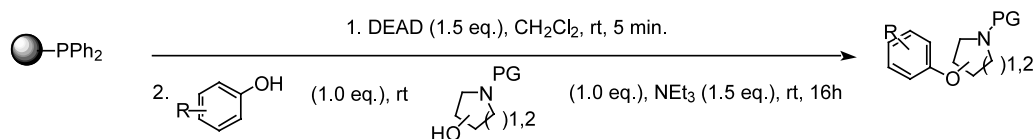


Synthesis of aryl ethers from aminoalcohols using polymer-supported triphenylphosphine

Tetrahedron Letters 43 (2002) 2157

Mike E. Lizarzaburu and Stephen J. Shuttleworth*

Tularik Inc., Two Corporate Drive, South San Francisco, CA 94080, USA

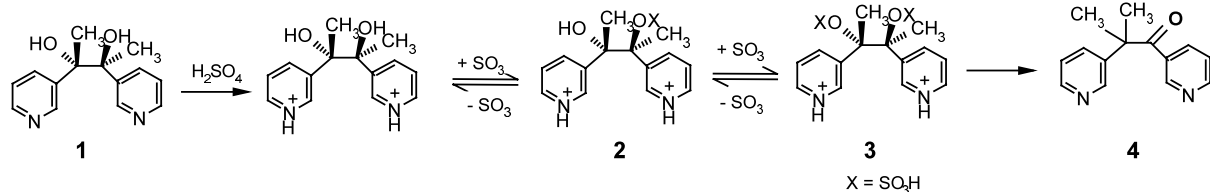


Mechanism of the pinacol–pinacolone rearrangement of 2,3-di-(3-pyridyl)-2,3-butanediol in sulfuric acid

Tetrahedron Letters 43 (2002) 2161

Eric Loeser, Guang-Pei Chen, Tao He, Kapa Prasad* and Oljan Repič

Process Research & Development, Novartis Institute for Biomedical Research, One Health Plaza, East Hanover, NJ 07936, USA

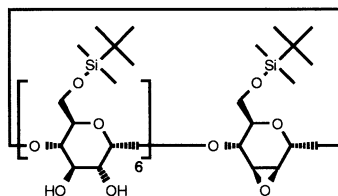


Synthesis of *manno*-2,3-epoxy- β -cyclodextrin on a soluble solid support

Tetrahedron Letters 43 (2002) 2167

Pierre-Luc Girard-Lauriault and Michael J. Boyd*

Merck Frosst Canada & Co., 16711 Trans Canada Hwy., Kirkland, Quebec, Canada, H9H 3L1



Novel application of the palladium-catalyzed *N*-arylation of hydrazones to a versatile new synthesis of pyrazoles

Tetrahedron Letters 43 (2002) 2171

Nizar Haddad* and James Baron

Boehringer Ingelheim Pharmaceuticals, Inc., Department of Chemical Development, 900 Ridgebury Rd., PO Box 368, Ridgefield, CT 06877-0368, USA

One-pot synthesis of pyrazoles from the corresponding hydrazones.

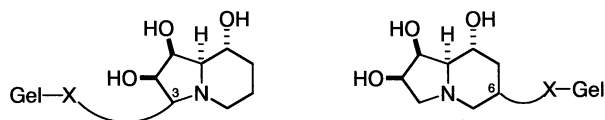
Preparation of immobilized swainsonine analogs on solid support

Tetrahedron Letters 43 (2002) 2175

William H. Pearson,^{a,*} Luyi Guo^b and Tanya M. Jewell

^a*Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055, USA*

^b*Department of Medicinal Chemistry, School of Pharmacy, University of Michigan, Ann Arbor, MI 48109-1065, USA*



Three-component synthesis of 2-haloalk-2(Z)-en-1-ols via tandem haloalkylidenation–aldehyde addition

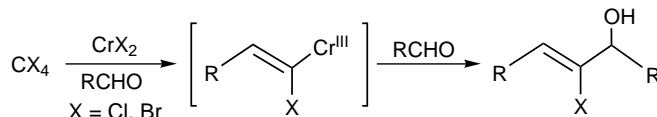
Tetrahedron Letters 43 (2002) 2179

Rachid Baati,^a D. K. Barma,^b J. R. Falck^{b,*} and Charles Mioskowski^{a,*}

^aUniversité Louis Pasteur de Strasbourg, Faculté de Pharmacie, Laboratoire de Synthèse Bio-Organique (UMR 7514), 67401 Illkirch, France

^bDepartment of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX 75390-9038, USA

Cr(II)-induced condensation of CCl₄ or CBr₄ with an aldehyde stereospecifically generates an (*E*)- α -haloalkylidene chromium carbenoid which adds in situ to a second equivalent of aldehyde furnishing 2-haloalk-2(Z)-en-1-ols in high yield.



A versatile synthesis of 2-haloalk-2(Z)-en-1-ols and 1-chloro-1(Z)-alkenes from trichloromethylcarbinols

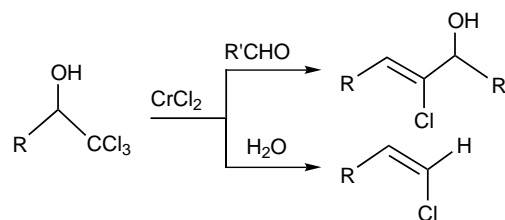
Tetrahedron Letters 43 (2002) 2183

Rachid Baati,^a D. K. Barma,^b J. R. Falck^{b,*} and Charles Mioskowski^{a,*}

^aUniversité Louis Pasteur de Strasbourg, Faculté de Pharmacie, Laboratoire de Synthèse Bio-Organique (UMR 7514), 67401 Illkirch, France

^bDepartment of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX 75390-9038 USA

CrCl₂ converts trichloromethylcarbinols under mild conditions to (*E*)- α -haloalkylidene chromium carbenoids which add to aldehydes or are quenched with water affording 2-haloalk-2(Z)-en-1-ols and 1-chloro-1(Z)-alkenes, respectively, in high yield.



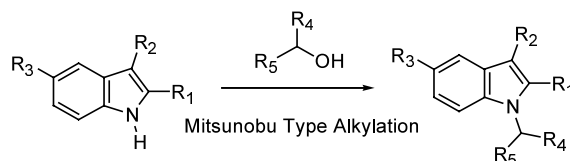
N-Alkylation of 1H-indoles and 9H-carbazoles with alcohols

Tetrahedron Letters 43 (2002) 2187

Agnes Bombrun* and Giulio Casi

Serono Pharmaceutical Research Institute, 14 Chemin des Aulx, 1228 Plan-les-Ouates, Geneva, Switzerland

A comparative study of *N*-alkylation of 1*H*-indole and 9*H*-carbazole derivatives with alcohols was performed using classic Mitsunobu reaction conditions (i.e. DEAD/PPh₃), TMAD in the presence of PBU₃ or using phosphoranones such as CMMP.



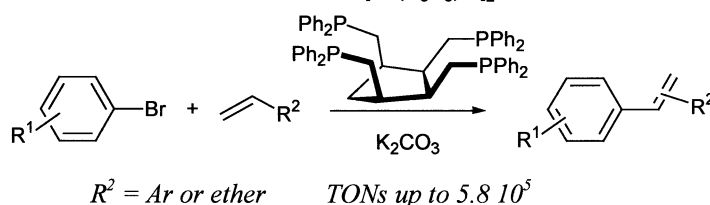
A new efficient tetrakisphosphine/palladium catalyst for the Heck reaction of aryl halides with styrene or vinyl ether derivatives

Tetrahedron Letters 43 (2002) 2191

Marie Feuerstein, Henri Doucet* and Maurice Santelli*

Laboratoire de Synthèse Organique associé au CNRS, Faculté des Sciences de Saint Jérôme, Avenue Escadrille Normandie-Niemen, 13397 Marseille Cedex 20, France

1/2 [Pd(C₃H₅)Cl]₂/



Desymmetrisation of *meso*-methylcyclooctanones. Highly enantioselective synthesis of C₈ *syn*-isoprenoid and *syn,syn*-deoxypropionate subunits from a bicyclo[3.3.1]nonane precursor

Tetrahedron Letters 43 (2002) 2195

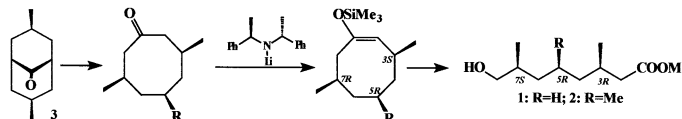
Augusto Gambacorta,^{a,*} Daniela Tofani,^a Paolo Lupattelli^b and Andrea Tafi^c

^aDipartimento di Ingegneria Meccanica e industriale, Università degli studi 'Roma Tre', via della Vasca Navale 79, 00146 Roma, Italy

^bDipartimento di Chimica, Università degli Studi della Basilicata, via Nazario Sauro 85, 85100 Potenza, Italy

^cDipartimento Farmaco Chimico Tecnologico, Università degli studi di Siena, via Aldo Moro, 53100 Siena, Italy

The isoprenoid synthons **1** and **2** have been prepared with e.e. >98% from the known ketone **3**.



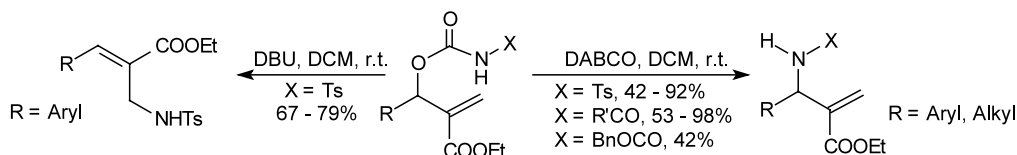
Synthesis of unsaturated β -amino acid derivatives from carbamates of the Baylis–Hillman products

Tetrahedron Letters 43 (2002) 2199

Marco Ciclosi,^a Cristiana Fava,^a Roberta Galeazzi,^a Mario Orena^{a,*} and José Sepulveda-Arques^b

^aDipartimento di Scienze dei Materiali e della Terra-Università di Ancona-Via Breccie Bianche, I-60131 Ancona, Italy

^bDepartment of Organic Chemistry, Faculty of Pharmacy-University of Valencia, Avda. Vicent Andrés Estelles s/n, 46100 Burjassot, Valencia, Spain



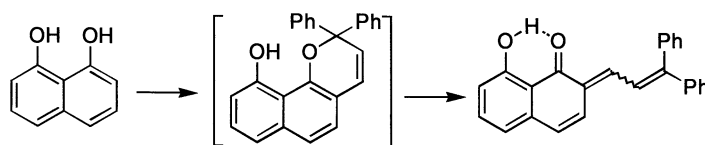
First report of a permanent open form of a naphthopyran

Tetrahedron Letters 43 (2002) 2203

Cristina I. Martins,^a Paulo J. Coelho,^{a,*} Luis M. Carvalho^a and Ana M. F. Oliveira-Campos^b

^aDept. Química, Universidade de Trás-os-Montes e Alto Douro, 5000 Vila Real, Portugal

^bCentro de Química, IBQF, Universidade do Minho, 4710 Braga, Portugal

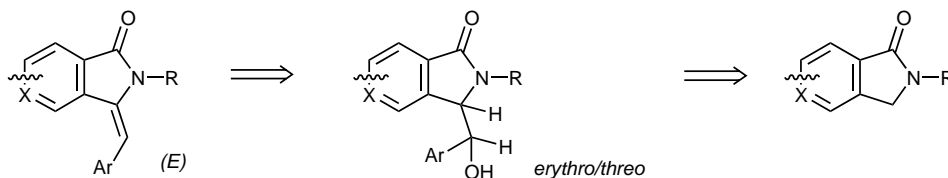


Diastereoselective addition of metalated isoindolin-1-ones to aldehydes. Stereoselective preparation of (*E*)-3-arylideneisoindolin-1-ones

Tetrahedron Letters 43 (2002) 2207

Axel Couture,^{*} Eric Deniau, Pierre Grandclaude, Christophe Hoarau and Véronique Rys

Laboratoire de Chimie Organique Physique, UPRESA 8009, Université des Sciences et Technologies de Lille, F-59655 Villeneuve d'Ascq Cedex, France



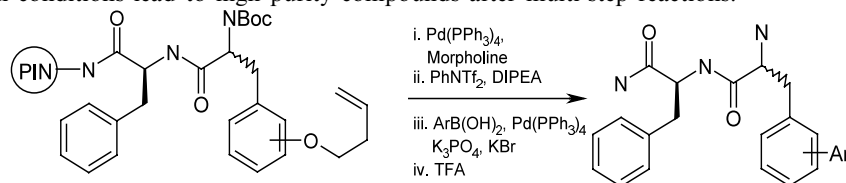
Multipin solid-phase synthesis of biaryls via Suzuki cross coupling reaction of aryltriflates

Tetrahedron Letters 43 (2002) 2211

Christian Lutz and Konrad H. Bleicher*

F. Hoffmann-La Roche AG, Pharma Research, CH-4070 Basel, Switzerland

The aryl allylether cleavage, phenol triflation and subsequent Suzuki coupling reaction on solid support is described. Optimized reaction conditions lead to high purity compounds after multi-step reactions.

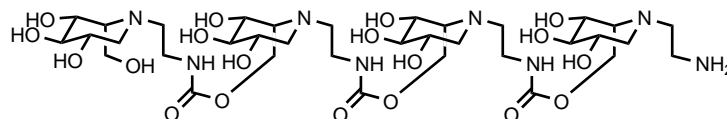


Solid-phase synthesis of a new class of oligosaccharide analogues based on azasugars

Tetrahedron Letters 43 (2002) 2215

Bart Ruttens and Johan Van der Eycken*

Laboratory for Organic and Bio-organic Synthesis, Department of Organic Chemistry, Ghent University, Krijgslaan 281(S.4), B-9000 Gent, Belgium



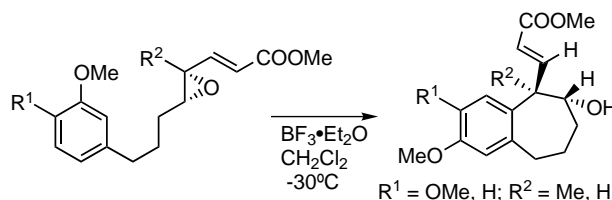
7-endo Selective Friedel-Crafts type cyclization of vinyloxiranes linked to an ester group

Tetrahedron Letters 43 (2002) 2223

Shinji Nagumo,^{a,*} Irie Miyoshi,^a Hiroyuki Akita^b and Norio Kawahara^{a,*}

^aHokkaido College of Pharmacy, Katuraoka 7-1, Otaru 047-0264, Japan

^bSchool of Pharmaceutical Science, Toho University, 2-2-1, Miyama, Funabashi, Chiba 274-8510, Japan

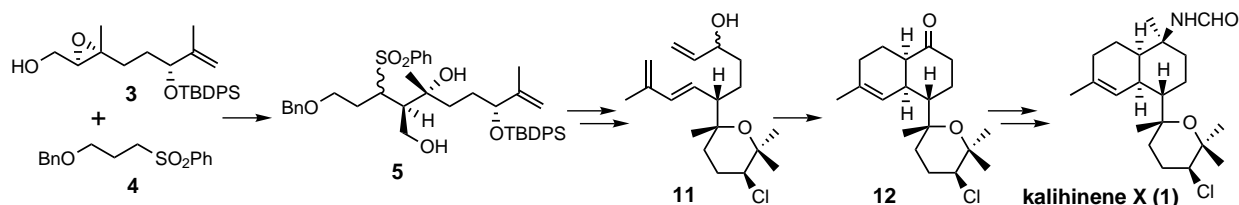


Total synthesis of marine diterpenoid kalihinene X

Tetrahedron Letters 43 (2002) 2227

Hiroaki Miyaoka, Hiroshi Shida, Naohito Yamada, Hidemichi Mitome and Yasuji Yamada*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

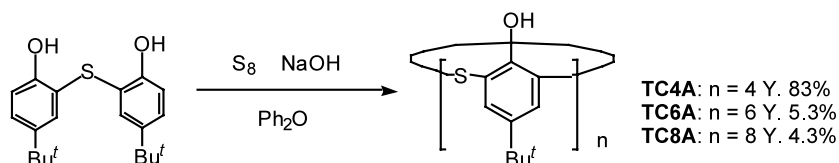


Synthesis of *p*-*tert*-butylthiacalix[*n*]arenes (*n*=4, 6, and 8) from a sulfur-bridged acyclic dimer of *p*-*tert*-butylphenol

Tetrahedron Letters 43 (2002) 2231

Noriyoshi Kon,* Nobuhiko Iki and Sotaro Miyano*

Department of Biomolecular Engineering, Graduate School of Engineering, Tohoku University, Aramaki-Aoba 07, Aoba-ku, Sendai 980-8579, Japan

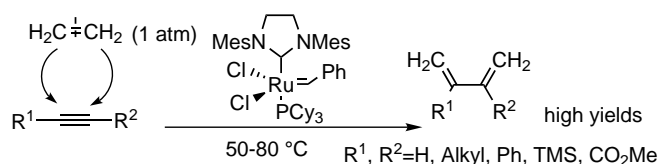


An improved 1,3-diene synthesis from alkyne and ethylene using cross-ene metathesis

Tetrahedron Letters 43 (2002) 2235

Keisuke Tonogaki and Miwako Mori*

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

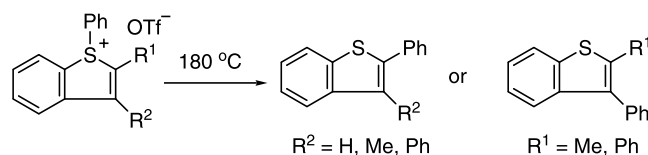


Novel phenyl migration of 1-phenylbenzo[*b*]thiophenium triflates in the thermolysis

Tetrahedron Letters 43 (2002) 2239

Tsugio Kitamura,* Bian-Xiang Zhang and Yuzo Fujiwara

Department of Applied Chemistry, Faculty of Engineering, Kyushu University, Hakozaki, Fukuoka 812-8581, Japan

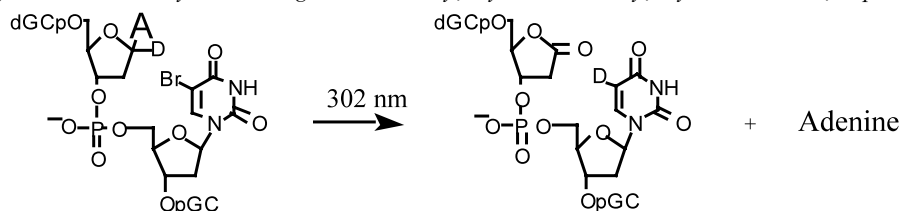


Deoxyribonolactone formation in photoirradiation of 5-bromouracil-containing oligonucleotides by direct C1' hydrogen abstraction

Tetrahedron Letters 43 (2002) 2243

Kenzo Fujimoto, Yutaka Ikeda, Shigenori Ishihara and Isao Saito*

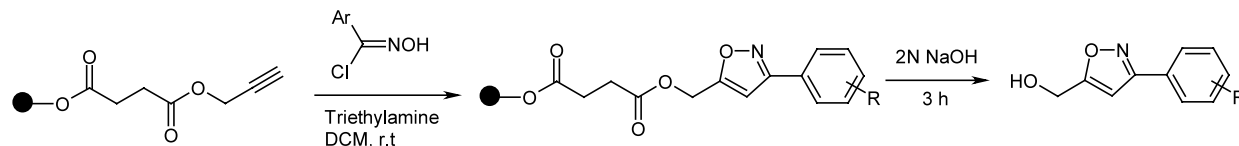
Department of Synthetic Chemistry and Biological Chemistry, Kyoto University, Kyoto 606-8501, Japan



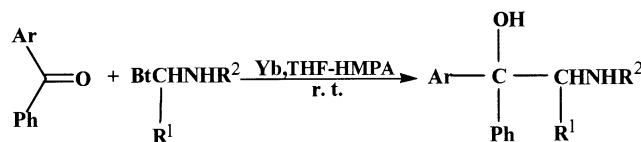
Soluble polymer-supported synthesis of isoxazoles

Yong-Jia Shang and Yan-Guang Wang*

Department of Chemistry, Zhejiang University, 310027 Hangzhou, China

**Nucleophilic substitution reactions of aminoalkylbenzotriazoles with ytterbium metal unpoled diaryl ketones**Weike Su,^{a,*} Bibo Yang^a and Yongmin Zhang^b^aCollege of Pharmaceutical Sciences, Zhejiang University of Technology, Hangzhou 310014, PR China^bDepartment of Chemistry, Zhejiang University (Campus Xixi), Hangzhou 310028, PR China

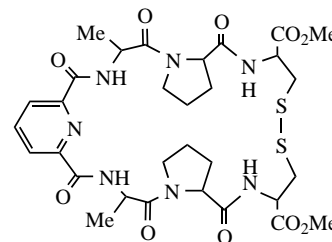
The reaction of diaryl ketones such as benzophenone with aminoalkylbenzotriazoles in the presence of ytterbium metal at room temperature has been found to give 2-amino alcohols in good yields under mild and neutral conditions.

**A cystine-bearing pseudo-cyclopeptide as a new amphi-receptor**

Hai Huang, Linjing Mu, Jiaqi He and Jin-Pei Cheng*

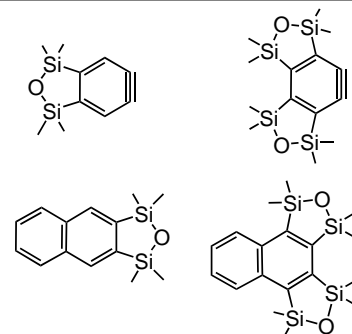
Department of Chemistry, Nankai University, Tianjin 300071, China

A conformationally constrained cyclic peptide was designed and synthesized as a novel amphi-receptor. It complexes with cations or anions through the carbonyl or amino groups, respectively.

**Cycloaddition reactions of benzynes generated from benzobisoxadisilole, benzotrisoxadisilole and naphthoxadisilole**

Ya-Li Chen, Hong-Kui Zhang, Wai-Yeung Wong and Albert W. M. Lee*

Department of Chemistry and Central Laboratory of the Institute of Molecular Technology for Drug Discovery and Synthesis, Hong Kong Baptist University, Kowloon Tong, Hong Kong, China

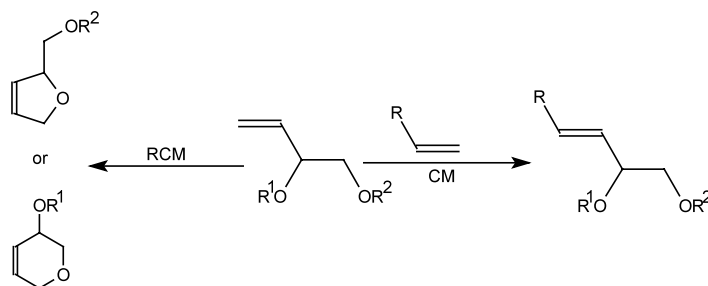


Effect of a proximal oxygen substituent on the efficacy of ruthenium-catalyzed cross-metathesis and RCM

Tetrahedron Letters 43 (2002) 2263

Tarun K. Maishal, Dilip K. Sinha-Mahapatra, Kavita Paranjape and Amitabha Sarkar*

Division of Organic Chemistry (Synthesis), National Chemical Laboratory, Pune 411008, India



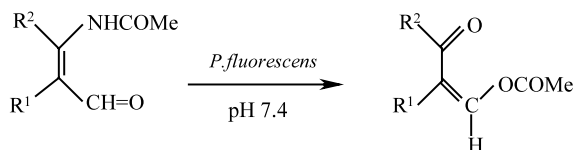
A facile 1,5-rearrangement of β -formylenamides and cleavage of esters catalysed by *Pseudomonas fluorescens*

Tetrahedron Letters 43 (2002) 2269

U. Bora,^a M. Longchar,^a A. Chetia,^a B. S. D. Kumar,^b R. C. Boruah^{a,*} and J. S. Sandhu^a

^aOrganic Chemistry Division, Regional Research Laboratory, Jorhat 785006, India

^bSoil Microbiology Division, Regional Research Laboratory, Jorhat 785006, India

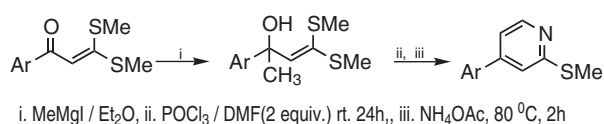


Vilsmeier–Haack reactions of α -hydroxyketenedithioacetals: a facile synthesis of substituted pyridines

Tetrahedron Letters 43 (2002) 2273

Ajith Dain Thomas and C. V. Asokan*

School of Chemical Sciences, Mahatma Gandhi University, Kottayam, Kerala, India 686 650

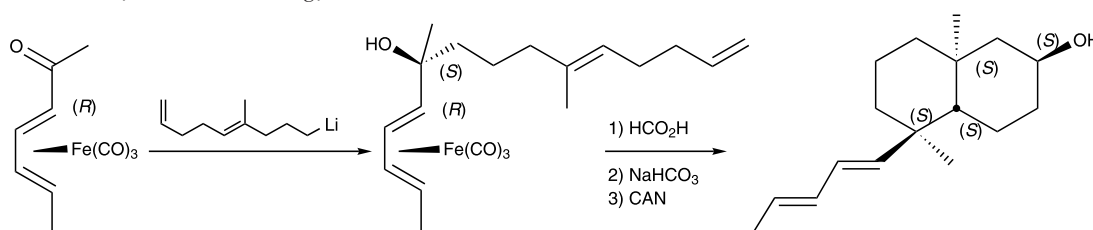


Highly stereoselective biomimetic polyene cyclizations using chiral pentadienol tricarbonyliron complexes

Tetrahedron Letters 43 (2002) 2277

Michel Franck-Neumann,* Philippe Geoffroy and David Hanss

Laboratoire de Chimie Organique Synthétique, associé au CNRS, Institut de Chimie, Université Louis Pasteur, 1, rue Blaise Pascal, 67000 Strasbourg, France



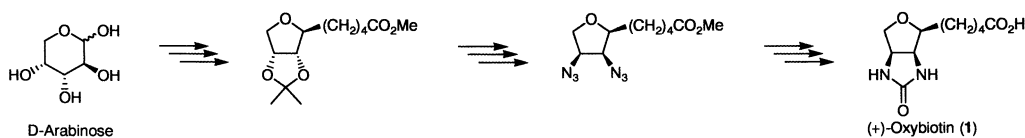
An efficient synthesis of (+)-oxybiotin from D-arabinose

Tetrahedron Letters 43 (2002) 2281

Velimir Popsavin,* Goran Benedeković and Mirjana Popsavin

University of Novi Sad, Faculty of Sciences, Institute of Chemistry, Trg D. Obradovića 3, YU-21000 Novi Sad, Yugoslavia

An efficient ten-step stereospecific synthesis of (+)-oxybiotin has been achieved starting from D-arabinose.

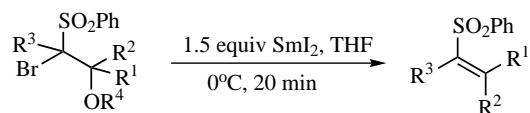


Samarium(II) iodide-mediated deoxygenative debromination of α -bromo- β -hydroxy (acetoxyl) phenyl sulfones: synthesis of α,β -unsaturated sulfones

Tetrahedron Letters 43 (2002) 2285

Vichai Reutrakul,* Suwatchai Jarussophon,
Manat Pohmakotr, Yupa Chaiyasut,
Saengvimon U-Thet and Patoomratana Tuchinda

*Department of Chemistry, Faculty of Science, Mahidol University,
Rama 6 Road, Bangkok 10400, Thailand*



R¹, R² = -(CH₂)_n-, n = 3, 4, 5

R¹ = H, R² = *n*-heptyl, *i*-propyl, phenyl, alkenyl

R³ = H, CH₃, *n*-pentyl; R⁴ = H, Ac

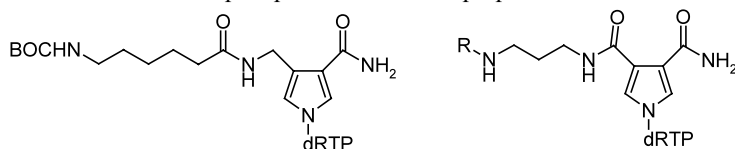
Synthesis of pyrrole carboxamide nucleotide triphosphates—putative labelled nucleotide analogues

Tetrahedron Letters 43 (2002) 2289

R. James D. Nairne,* Lea Pickering and Clifford L. Smith

Amersham Pharmacia Biotech UK Limited, Amersham Place, Little Chalfont, Buckinghamshire HP7 9NA, UK

The two pyrrole carboxamide nucleotide triphosphates have been prepared and screened as Klenow fragment substrates.



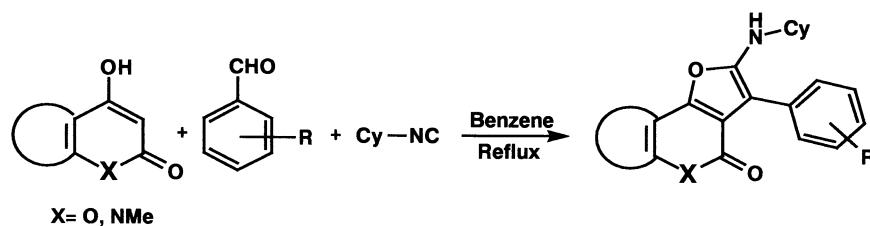
R = BOC, H,
6-Fluorescein-5-(and 6)-carboxamidoethyl

A facile three-component reaction involving [4+1] cycloaddition leading to furan annulated heterocycles

Tetrahedron Letters 43 (2002) 2293

Vijay Nair,* Rajeev S. Menon, A. U. Vinod and S. Viji

Organic Chemistry Division, Regional Research Laboratory, Trivandrum 695 019, India

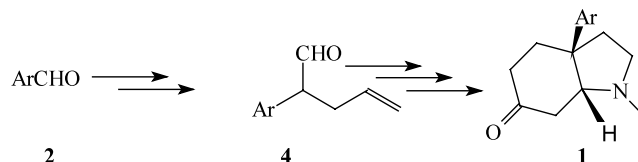


Allyl vinyl ethers via Wittig olefination: a short and efficient synthesis of (\pm)-mesembrine

Mukund G. Kulkarni,* Ravindra M. Rasne, Saryu I. Davawala and Aniruddha K. Doke

Department of Chemistry, University of Pune, Pune 411 007, India

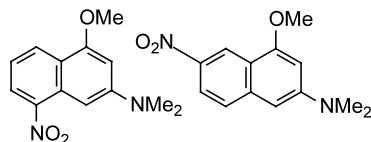
A Wittig olefination-Claisen rearrangement approach has been successfully applied to a short and efficient synthesis of (\pm)-mesembrine.



A new synthesis of 'push-pull' naphthalenes by condensation of nitro-2-methylbenzoate esters with dimethylacetamide dimethyl acetal

See-Mun Wong, Bhavini Shah, Priyal Shah, Ian C. Butt, Esther C. Y. Woon, James A. Wright, Andrew S. Thompson, Christopher Upton and Michael D. Threadgill*

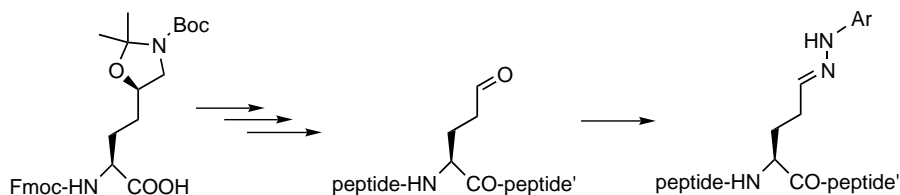
Department of Pharmacy & Pharmacology, University of Bath, Bath BA2 7AY, UK



Masked side-chain aldehyde amino acids for solid-phase synthesis and ligation

Jane C. Spetzler and Thomas Hoeg-Jensen*

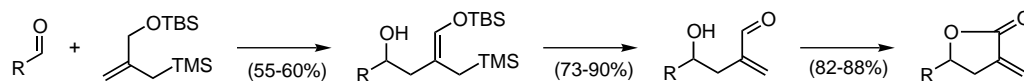
Novo Nordisk, Novo Alle 6BS.58, DK-2880 Bagsvaerd, Denmark



Concise and connective synthesis of *exo*-methylene- γ -butyrolactones

Raphaël Dumeunier, Cédric Leclercq and István E. Markó*

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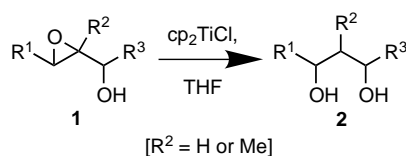


Synthesis of chiral 1,3-diols by radical-mediated regioselective opening of 2,3-epoxy alcohols using cp_2TiCl

Tetrahedron Letters 43 (2002) 2313

Tushar K. Chakraborty* and Sanjib Das

Indian Institute of Chemical Technology, Hyderabad 500 007, India



Regio- and stereoselective cyclopropanation of functionalised dienes. Novel methodology for the synthesis of vinyl- and divinyl-cyclopropanes

Tetrahedron Letters 43 (2002) 2317

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