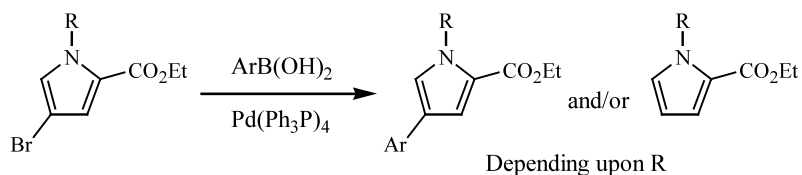


An unusual dehalogenation in the Suzuki coupling of 4-bromopyrrole-2-carboxylates

Tetrahedron Letters 44 (2003) 427

Scott T. Handy,* Howard Bregman, Jennifer Lewis, Xiaolei Zhang and Yanan Zhang

Department of Chemistry, State University of New York at Binghamton, Binghamton, NY 13902, USA

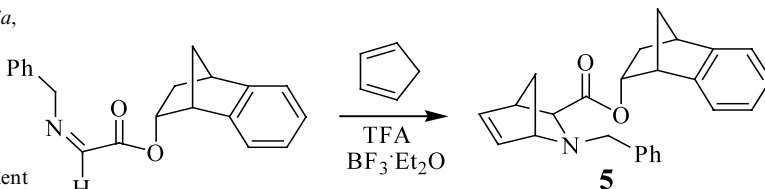


The *exo*-selectivity of the new non-natural chiral auxiliary (+)-(1*R*, *endo*)-2-benzonorbornenol in an asymmetric aza-Diels–Alder reaction

Tetrahedron Letters 44 (2003) 431

Franco Fernández,^a Xerardo García-Mera,^{a,*} José Enrique Rodríguez-Borges^b and María Luisa C. Vale^b^aDepartamento de Química Orgánica, Facultade de Farmacia, Universidade de Santiago de Compostela, E-15782 Santiago de Compostela, Spain^bCIQ, Departamento de Química, Faculdade de Ciências, Universidade do Porto, Rua do Campo Alegre, 687, 4169-007 Porto, Portugal

(+)-(1*R*,*endo*)-2-Benzonorbornenol proved to be a convenient chiral auxiliary in the asymmetric aza-Diels–Alder reaction between cyclopentadiene and the *N*-benzyl imine of its glyoxylate, which afforded a virtually all-*exo* mixture of cycloadducts (**5**) with a 1*S*:1*R* diastereomeric ratio of 63:37.

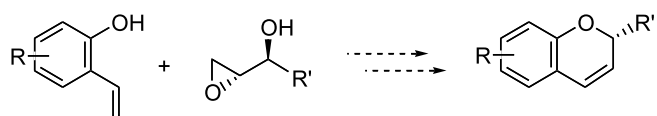


Enantioselective synthesis of chromenes

Tetrahedron Letters 44 (2003) 435

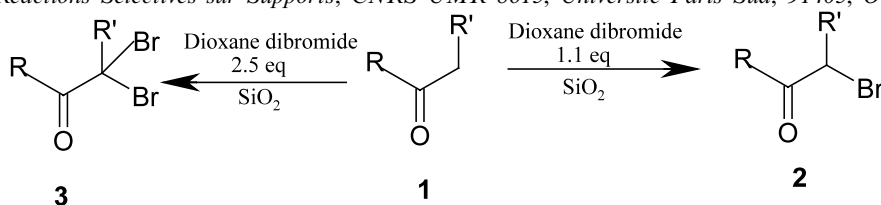
Christophe Hardouin, Lise Burgaud, Alain Valleix and Eric Doris*

CEA/Saclay, Service de Marquage Moléculaire et de Chimie Bioorganique, Département de Biologie Joliot-Curie, 91191 Gif sur Yvette Cedex, France



Microwave-induced selective synthesis of α -bromo and α,α -dibromoalkanonones using dioxane–dibromide and silica gel under solvent-free conditions

Tetrahedron Letters 44 (2003) 439

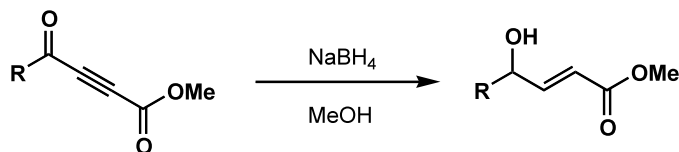
Satya Paul,^{a,*} Varinder Gupta,^a Rajive Gupta^a and André Loupy^b^aDepartment of Chemistry, University of Jammu, Jammu 180 006, India^bLaboratoire des Réactions Sélectives sur Supports, CNRS UMR 8615, Université Paris-Sud, 91405, Orsay Cedex, France

A novel and simple method to prepare γ -hydroxy- α,β -(*E*)-alkenoic esters from γ -keto-alkynoic esters

Tetrahedron Letters 44 (2003) 443

Tadaatsu Naka and Kazunori Koide*

Department of Chemistry, University of Pittsburgh, 219 Parkman Avenue, Pittsburgh, PA 15260, USA



Effect of pressure on the Strecker synthesis of hindered α -aminonitriles from ketones and aromatic amines

Tetrahedron Letters 44 (2003) 447

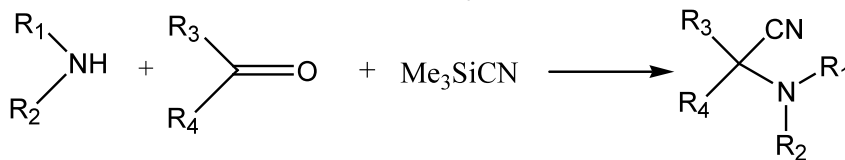
Gérard Jenner,^{a,*} Ridha Ben Salem,^b Jong Chul Kim^c and Kiyoshi Matsumoto^{c,*}

^aLaboratoire de Piézochimie Organique (UMR 7123), Faculté de Chimie, Université Louis Pasteur, 67008 Strasbourg, France

^bLaboratoire de chimie organique physique, Université de Sfax, Tunisie

^cGraduate School of Human and Environmental Studies, Kyoto University, Kyoto 606-8501, Japan

The promoting effect of pressure increases with increasing bulkiness of R₃, R₄.

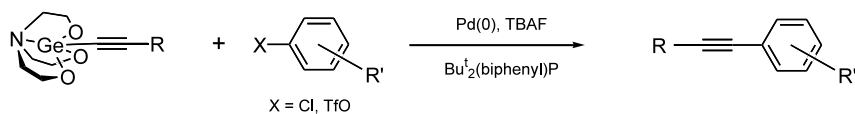


Alkynyl germatranes as alternative reagents for the preparation of biarylethynes

Tetrahedron Letters 44 (2003) 451

Jack W. Faller,* Roman G. Kultyshev and Jonathan Parr

Department of Chemistry, Yale University, 225 Prospect Street, New Haven, CT 06520, USA



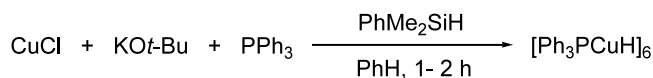
An expedient preparation of Stryker's reagent

Tetrahedron Letters 44 (2003) 455

Pauline Chiu,* Zhengning Li and Kelvin C. M. Fung

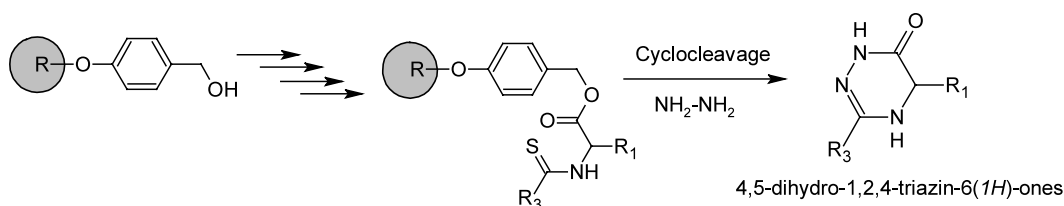
Department of Chemistry, The University of Hong Kong, Pokfulam Road, Hong Kong, PR China

Stryker's reagent has been synthesized efficiently in good yields using silanes as reducing agents.

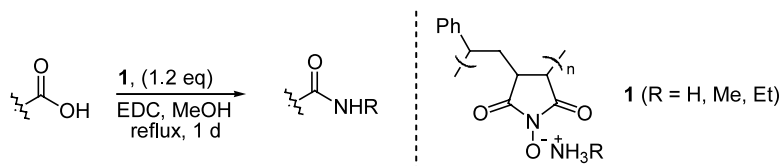


Efficient solid-phase synthesis of 4,5-dihydro-1,2,4-triazin-6(1H)-ones*Tetrahedron Letters 44 (2003) 459*

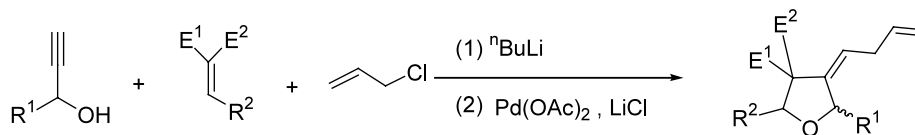
Damien Boeglin, Sonia Cantel, Jean Martinez and Jean-Alain Fehrentz*

Laboratoire des Aminoacides, Peptides et Protéines (LAPP), UMR 5810 CNRS Universités Montpellier I et II, Faculté de Pharmacie, 15 Avenue Charles Flahault, BP 14491, 34093 Montpellier Cédex 5, France**Ammonium salts from polymer-bound *N*-hydroxysuccinimide as solid-supported reagents for EDC-mediated amidations***Tetrahedron Letters 44 (2003) 463*

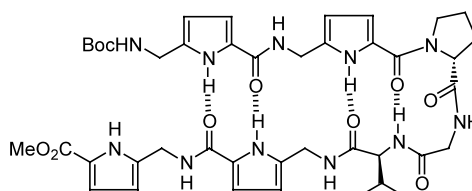
Rafael Chinchilla, David J. Dodsworth, Carmen Nájera* and José M. Soriano

Departamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apartado 99, 03080 Alicante, Spain**One-pot synthesis of tetrahydrofuran derivatives via a divalent palladium-catalyzed three-component coupling***Tetrahedron Letters 44 (2003) 467*

Guosheng Liu and Xiyan Lu*

State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China**Nucleation of β -hairpin structure in a pyrrole amino acid containing peptide***Tetrahedron Letters 44 (2003) 471*

Tushar K. Chakraborty,* B. Krishna Mohan, S. Kiran Kumar and Ajit C. Kunwar

Indian Institute of Chemical Technology, Hyderabad 500 007, India

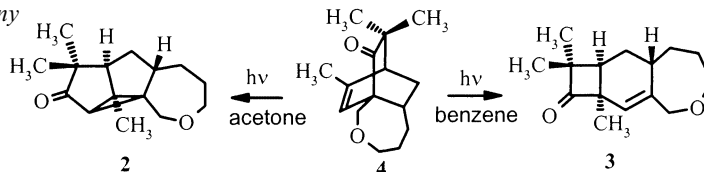
Novel entry into oxepane–diquinane and oxepane–sterpurane hybrids: synthesis and photochemistry of 3-oxatricyclo[7.2.2.0^{1,7}]-tridecenones

Tetrahedron Letters 44 (2003) 475

Vishwakarma Singh,^{a,*} Punitha Vedantham,^a Vinayak V. Kane^{b,*} and Kurt Polborn^b

^aDepartment of Chemistry, Indian Institute of Technology, Bombay 400076, India

^bLudwig-Maximilians-Universitat Muenchen, Institut fur Organische Chemie, Butenandtstrasse 5-13, Haus F, D-81377 Muenchen, Germany



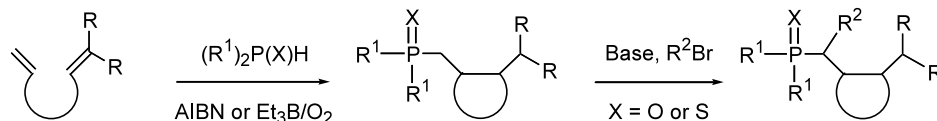
Cyclisation of dienes using phosphorus-centred radicals to form organophosphorus adducts

Tetrahedron Letters 44 (2003) 479

Christopher M. Jessop,^a Andrew F. Parsons,^{a,*} Anne Routledge^a and Derek Irvine^b

^aDepartment of Chemistry, University of York, Heslington, York YO10 5DD, UK

^bUniqema, PO Box 90, Wilton, Middlesbrough, Cleveland TS90 8JE, UK

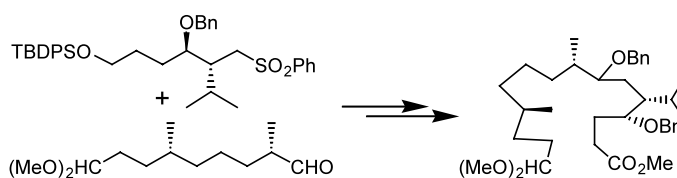


Synthetic studies on the dienophile unit of methyl isosartortuoate. Part 1: Assembly of the acyclic precursor

Tetrahedron Letters 44 (2003) 485

Zhangyong Hong, Xinchao Chen and Xingxiang Xu*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China

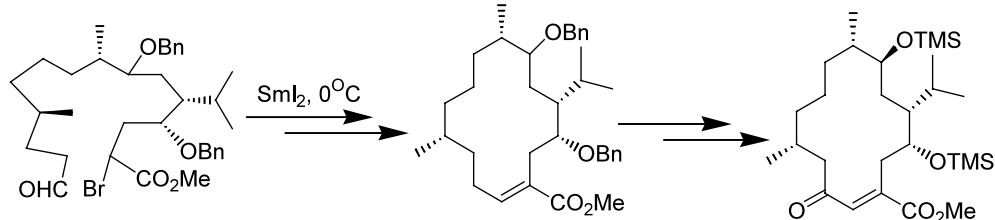


Synthetic studies on the dienophile unit of methyl isosartortuoate. Part 2: SmI₂-mediated 14-membered carbocyclization

Tetrahedron Letters 44 (2003) 489

Zhangyong Hong and Xingxiang Xu*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, Shanghai 200032, China

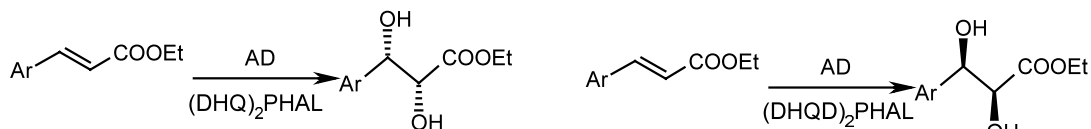


Asymmetric dihydroxylation of heteroaromatic acrylates

Tetrahedron Letters 44 (2003) 493

Zhi-Xiang Feng and Wei-Shan Zhou*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China

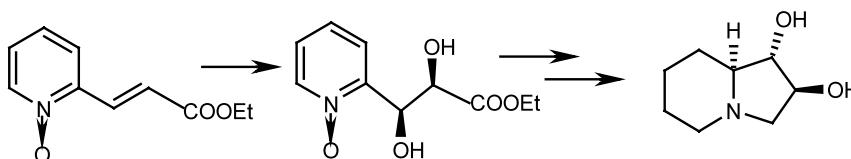


A novel concise total synthesis of (+)-lentiginosine

Tetrahedron Letters 44 (2003) 497

Zhi-Xiang Feng and Wei-Shan Zhou*

Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China



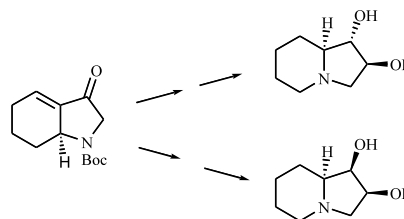
Total syntheses of (±)-lentiginosine and (±)-1-*epi*-lentiginosine from hexahydro-1*H*-indol-3-one

Tetrahedron Letters 44 (2003) 499

Chin-Kang Sha* and Chi-Min Chau

Department of Chemistry, National Tsing Hua University, Hsinchu 300, Taiwan, ROC

Total syntheses of (±)-lentiginosine and (±)-1-*epi*-lentiginosine were achieved efficiently from hexahydro-1*H*-indol-3-one.

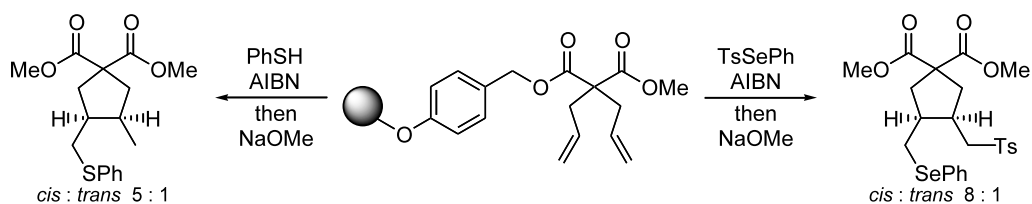


Sulfur-mediated radical cyclisation reactions on solid support

Tetrahedron Letters 44 (2003) 503

David C. Harrowven,* Peter J. May and Mark Bradley

Department of Chemistry, The University of Southampton, Southampton SO17 1BJ, UK



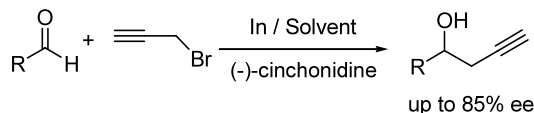
Indium-mediated propargylation of aldehydes: regioselectivity and enantioselectivity studies

Tetrahedron Letters 44 (2003) 507

Teck-Peng Loh,* Man-Jing Lin and Kee-Leng Tan

Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543

An enantioselective propargylation reaction of aldehydes with enantioselectivity up to 85% has been achieved in organic solvents by using stoichiometric amounts of (-)-cinchonidine as the chiral source.



Synthesis of novel 2,2- and 1,1-linked dimeric 'head-to-head' *N*-alkoxybenzimidazoles

Tetrahedron Letters 44 (2003) 511

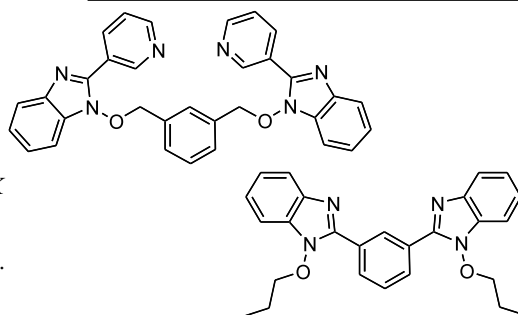
John M. Gardiner,^{a,*} Andrew D. Goss,^a Tahir N. Majid^b
and Andrew D. Morley^c

^a*Department of Chemistry, UMIST, Manchester M60 1QD, UK*

^b*Aventis Pharma US, Route 202-206, Bridgewater, NJ 08807, USA*

^c*Aventis Pharma, Rainham Road South, Dagenham, Essex RM10 7XS, UK*

Two-step synthesis of new types of symmetrical 'head-to-head' *N*-alkoxybenzimidazole dimers with 2,2- or 1,1-linking motifs is described.



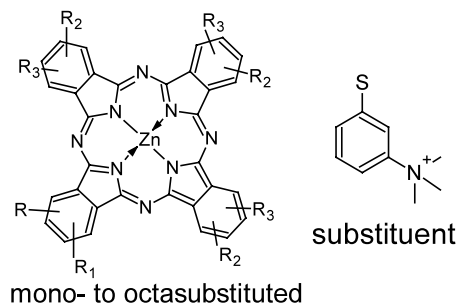
Synthesis of trimethylammoniumphenylthio-substituted phthalocyanines with different pattern of substitution

Tetrahedron Letters 44 (2003) 515

Francesca Giuntini,^{a,b,*} Daniele Nistri,^a Giacomo Chiti,^a Lia Fantetti,^a
Giulio Jori^b and Gabrio Roncucci^a

^a*Molteni Farmaceutici, S.S.67, loc. Granatieri 50018 Scandicci (Fi), Italy*

^b*Dipartimento di Fotobiologia, Università di Padova, via Trieste 75, 35121 Padova, Italy*

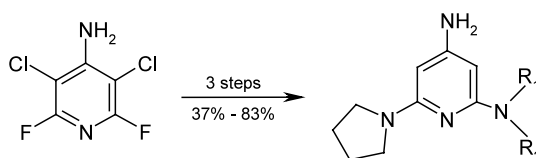


Parallel synthesis of 4-amino-2,6-dialkylamino-pyridines

Tetrahedron Letters 44 (2003) 519

Maria Menichincheri, Domenico Fusar Bassini, Markus Gude and
Mauro Angiolini*

Department of Chemistry, Discovery Research Oncology, Pharmacia Corporation, Nerviano, Italy



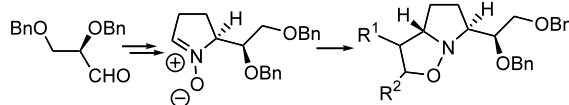
Synthesis and 1,3-dipolar cycloadditions of a new enantiopure cyclic nitron

Tetrahedron Letters 44 (2003) 523

Ramón Alibés,^a Pilar Blanco,^a Pedro de March,^a Marta Figueredo,^{a,*} Josep Font,^a Ángel Álvarez-Larena^b and Juan F. Piniella^b

^aDepartament de Química, Universitat Autònoma de Barcelona, E-08193 Bellaterra, Spain

^bUnitat de Cristal·lografia, Universitat Autònoma de Barcelona, E-08193 Bellaterra, Spain

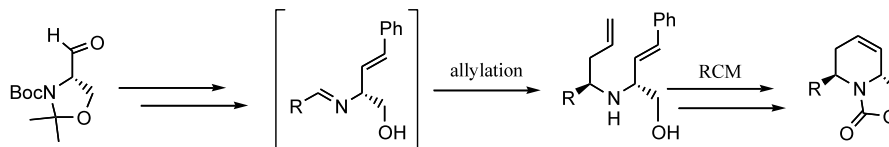


Efficient access to chiral *trans*-2,6-dialkyl-1,2,5,6-tetrahydropyridines via allylation of chiral imines and ring-closing metathesis

Tetrahedron Letters 44 (2003) 527

François-Xavier Felpin and Jacques Lebreton*

Laboratoire de Synthèse Organique, CNRS UMR 6513, Faculté des Sciences et des Techniques, 2 rue de la Houssinière, BP 92208, 44322 Nantes Cedex 3, France

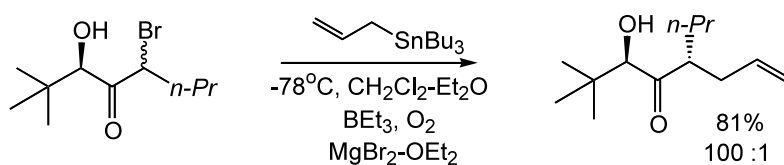


1,3-Diastereocontrol in acyclic radical allylations

Tetrahedron Letters 44 (2003) 531

Eric J. Enholm,* Sophie Lavieri, Tanya Cordóva and Ion Ghiviriga

Department of Chemistry, University of Florida, Gainesville, FL 32611, USA



Poly(ethylene glycol)-supported copper(II) triazacyclononane: an efficient, recoverable, and recyclable catalyst for the cleavage of a phosphodiester

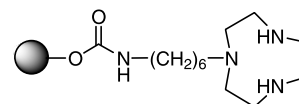
Tetrahedron Letters 44 (2003) 535

Gian Maria Bonora,^{a,*} Sara Drioli,^a Fulvia Felluga,^a Fabrizio Mancin,^b Paola Rossi,^b Paolo Scrimin^b and Paolo Tecilla^{a,*}

^aDipartimento di Scienze Chimiche, Università di Trieste, Via Licio Giorgieri 1, I-34127 Trieste, Italy

^bDipartimento di Chimica Organica e ITM-CNR, Sezione di Padova, Università di Padova, Via Marzolo 1, I-35131 Padova, Italy

A new recoverable and recyclable catalyst for the cleavage of phosphodiesters has been realized by linking a Cu(II) complex to a poly(ethylene glycol) polymer.



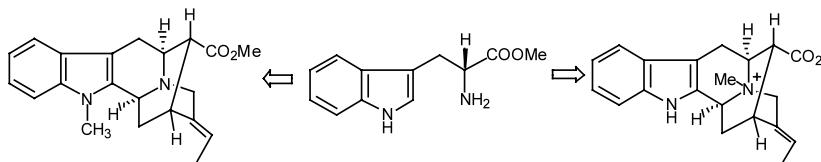
Stereoselective synthesis of spicigerolideEva Falomir,^a Juan Murga,^a Miguel Carda^{a,*} and J. Alberto Marco^{b,*}^aDepart. de Q. Inorgánica y Orgánica, Univ. Jaume I, Castellón, E-12080 Castellón, Spain^bDepart. de Q. Orgánica, Univ. de Valencia, E-46100 Burjassot, Valencia, Spain

(-)-Spicigerolide, a naturally occurring, cytotoxic lactone, has been obtained from L-rhamnose in a stereoselective way through a synthetic sequence including an asymmetric allylboration and a ring-closing olefin metathesis.


General approach for the total synthesis of the sarpagine related indole alkaloids (+)-N_a-methyl-16-epipericyclivine, (-)-alkaloid Q₃ and (-)-panarine via the asymmetric Pictet–Spengler reaction

Jianming Yu, Xiangyu Z. Wearing and James M. Cook*

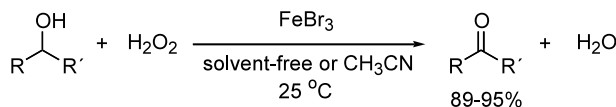
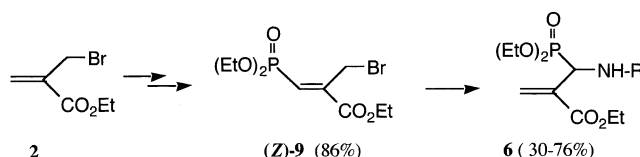
Department of Chemistry, University of Wisconsin-Milwaukee, Milwaukee, WI 53201, USA


Efficient solvent-free iron(III) catalyzed oxidation of alcohols by hydrogen peroxide

Sandra E. Martín* and Analía Garrone

INIFQC-Dpto. de Química Orgánica, Fac. de Ciencias Químicas, Universidad Nacional de Córdoba, Ciudad Universitaria, 5000-Córdoba, Argentina

Selective oxidation of secondary and benzylic alcohols was efficiently accomplished by H₂O₂ under solvent-free condition catalyzed by FeBr₃.

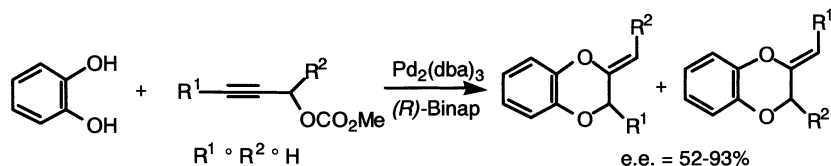

First synthesis of 2-[alkylamino(diethoxyphosphoryl)methyl]acrylic ethyl esters
Houda Kraïem,^a Meysun Ibrahim Abdullah^b and Hassen Amri^{a,*}^aLaboratoire de Chimie Organique et Organométallique, Faculté des Sciences, Campus Universitaire, 2092 Tunis, Tunisia^bUniversity of Nigde, Department of Chemistry, 51200 Nigde, Turkey

Pd-catalyzed annulation of benzene-1,2-diol and propargylic carbonates: a new example of asymmetric catalysis

Tetrahedron Letters 44 (2003) 557

Céline Damez, Jean-Robert Labrosse, Paul Lhoste and Denis Sinou*

Laboratoire de Synthèse Asymétrique, associé au CNRS, Université Claude Bernard Lyon 1, CPE Lyon, 43, boulevard du 11 novembre 1918, 69622 Villeurbanne cedex, France



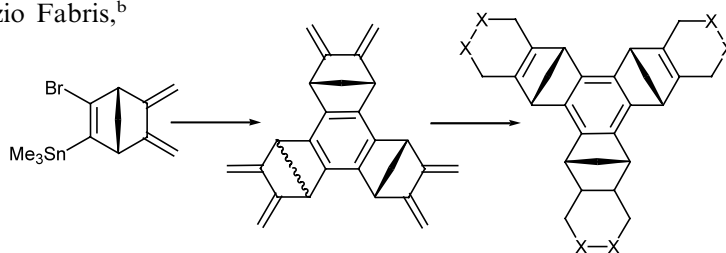
Synthesis of the *syn* and *anti* isomer of 1,4,5,8,9,12-hexahydro-2,3,6,7,10,11-hexamethylidene-1,4:5,8,9,12-trimethanotriphenylene and Diels–Alder reactivity of the *syn* isomer

Tetrahedron Letters 44 (2003) 561

Giuseppe Borsato,^a Ottorino De Lucchi,^b Fabrizio Fabris,^b
Vittorio Lucchini,^{a,*} Marco Pasqualotti^a and
Alfonso Zamboni^a

^aDipartimento di Scienze Ambientali, Università
Ca' Foscari di Venezia, Dorsoduro 2137,
I-30123 Venezia, Italy

^bDipartimento di Chimica, Università Ca' Foscari
di Venezia, Dorsoduro 2137, I-30123 Venezia, Italy

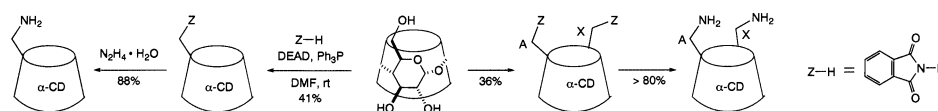


An efficient strategy for the modification of α -cyclodextrin: direct conversion of one or two adjacent 6-OHs to phthalimides

Tetrahedron Letters 44 (2003) 565

De-Qi Yuan,* Cheng Yang, Tarou Fukuda and Kahee Fujita*

Department of Molecular Medicinal Sciences, Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki 852-8521, Japan

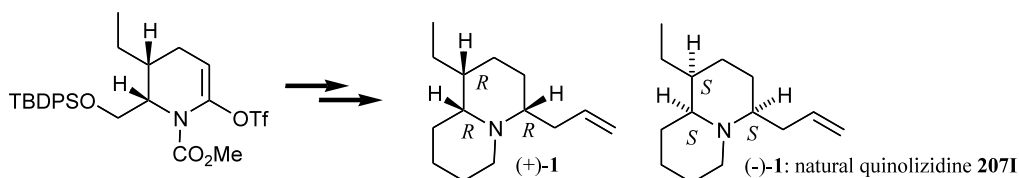


First enantioselective synthesis of (+)-quinolizidine 2071: determination of the absolute stereochemistry

Tetrahedron Letters 44 (2003) 569

Naoki Toyooka* and Hideo Nemoto

Faculty of Pharmaceutical Sciences, Toyama Medical and Pharmaceutical University, Sugitani 2630, Toyama 930-0194, Japan

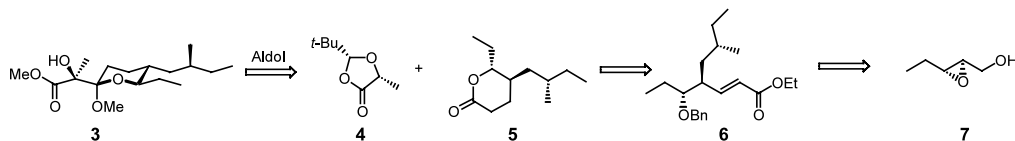


An efficient enantioselective synthesis of the acyl side chain of polyoxypeptins

Tetrahedron Letters 44 (2003) 571

Dong-Guang Qin and Zhu-Jun Yao*

State Key Laboratory of Bioorganic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, 354 Fenglin Rd, Shanghai 200032, China

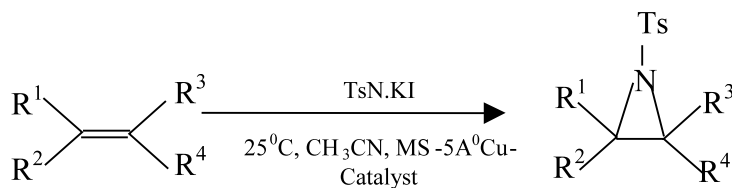


Aziridination of alkenes using *N*-iodo-*N*-potassio-*p*-toluenesulphonamide as a nitrene precursor

Tetrahedron Letters 44 (2003) 575

Suman L. Jain and Bir Sain*

Chemical and Biosciences Division, Indian Institute of Petroleum, Dehradun 248 005, India



A new diorganozinc-based enantioselective access to truncated *D*-ribo-phytosphingosine

Tetrahedron Letters 44 (2003) 579

Tahar Ayad, Yves Génisson,* Alexandre Verdu, Michel Baltas and Liliane Gorrichon

LSPCMIB, UMR 5068, Université Paul Sabatier, 118 route de Narbonne, 31062 Toulouse, France

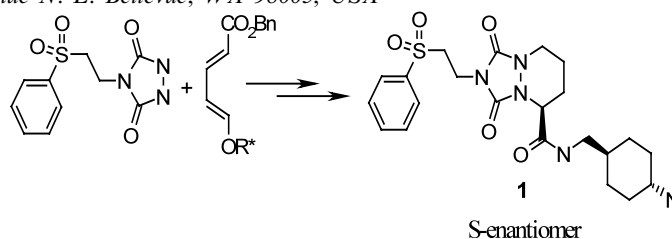


Asymmetric synthesis and conformational analysis of the two enantiomers of the saturated analog of the potent thrombin inhibitor MOL-376

Tetrahedron Letters 44 (2003) 583

Jessy Mathew, Ken Farber, Hiroshi Nakanishi and Maher Qabar*

Molecumetics, 2023, 120th Avenue N. E. Bellevue, WA 98005, USA



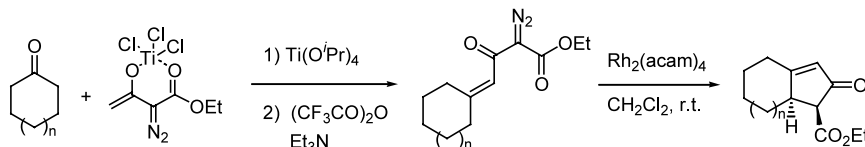
A novel approach to bicyclic fused cyclopentenone derivatives

Tetrahedron Letters 44 (2003) 587

Guisheng Deng, Xue Tian and Jianbo Wang*

Key Laboratory of Bioorganic Chemistry and Molecular Engineering of Ministry of Education,
Department of Chemical Biology, College of Chemistry, Peking University, Beijing 100871, PR China

A new four-step reaction sequence leading to bicyclic fused cyclopentenone derivatives starting from cyclic ketones has been developed.



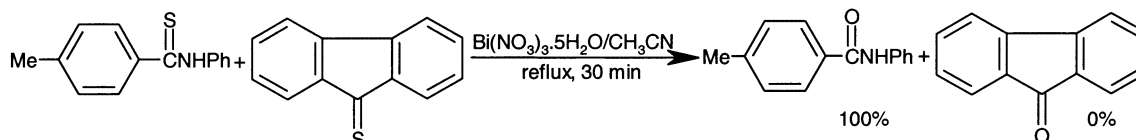
Bismuth(III) nitrate pentahydrate: a convenient and selective reagent for conversion of thiocarbonyls to their carbonyl compounds

Tetrahedron Letters 44 (2003) 591

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Palladium-catalyzed ring expansion reaction of 1-alkynylcyclobutanols with aryl iodides: an efficient route to 2-disubstituted methylenecyclopentanones

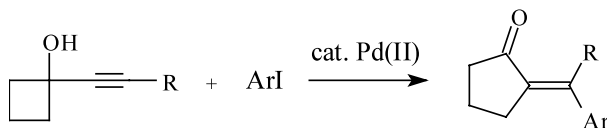
Tetrahedron Letters 44 (2003) 595

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The efficient stereoselective synthesis of 2-disubstituted methylenecyclopentanones is reported.



DFT theoretical studies of alkali metal acetylenic thiolates

Tetrahedron Letters 44 (2003) 599

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It follows from DFT calculations of acetylenic thiolates and their structural isomers—thioketenes and thiirenes that only the acetylenic type is stable. Most of the negative charge is concentrated on the sulfur atom. The influence of the cation (Li, Na, K) and the acetylenic substituent on the electronic structure and geometry of the thiolates is investigated. DFT calculations of IR and ¹³C NMR spectra of phenylethyne thiolate potassium are in agreement with experimental data.

A tandem Petasis–Ugi multi component condensation reaction: solution phase synthesis of six dimensional libraries

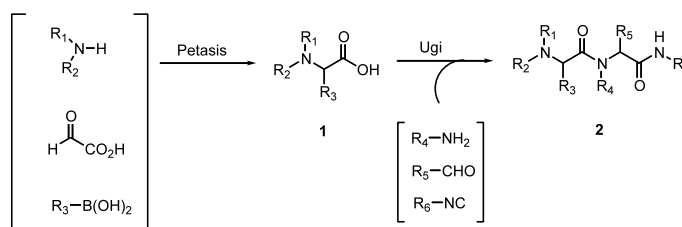
Tetrahedron Letters 44 (2003) 603

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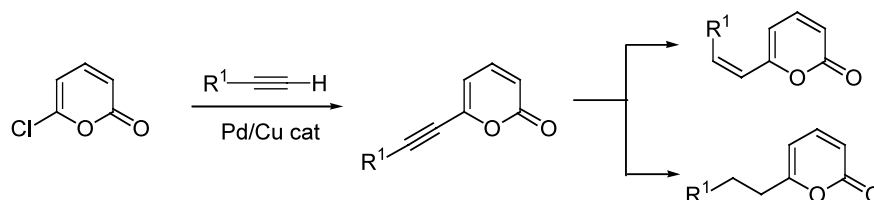


6-Chloro-2(2H)-pyranone: a new 2(2H)-pyranone synthon

Tetrahedron Letters 44 (2003) 607

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Stereoselective synthesis of 5,6-disubstituted-3,4-dihydro-1H-pyridin-2-ones, a new class of non-biaryl atropisomeric compounds. Part 1

Tetrahedron Letters 44 (2003) 611

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A Micheal reaction–azacyclization sequence from chiral imines leads to a stereoselective synthesis of a new class of non-biaryl atropisomers.

