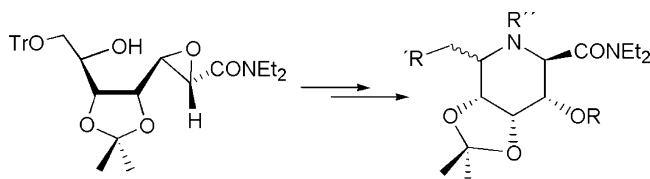
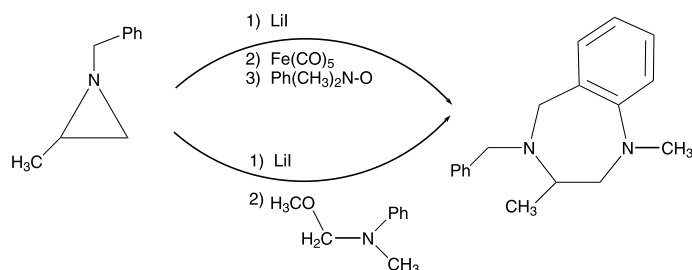


Iminosugars from α,β -epoxyamides. Part 1: Synthetic approach to hydroxylated piperidine derivatives*Tetrahedron Letters 44 (2003) 8353*

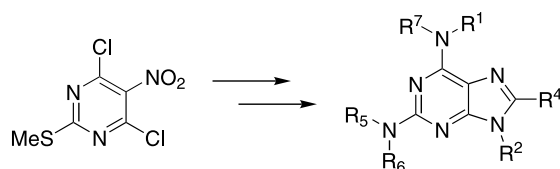
M. Soledad Pino-González,* Carmen Assiego and F. Jorge López-Herrera

Departamento de Bioquímica, Biología Molecular y Química Orgánica, Facultad de Ciencias, Universidad de Málaga, 29071 Málaga, Spain**The conversion of an aziridine plus a phenyl-substituted amine oxide or aminoether to a benzodiazepine derivative***Tetrahedron Letters 44 (2003) 8357*Matthew T. Hancock,^a Robert E. Minto^{b,*} and Allan R. Pinhas^{a,*}^a*Department of Chemistry, University of Cincinnati, PO Box 210172, Cincinnati, OH 45221, USA*^b*Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056, USA***Utility of 4,6-dichloro-2-(methylthio)-5-nitropyrimidine. Part 2: Solution phase synthesis of tetrasubstituted purines***Tetrahedron Letters 44 (2003) 8361*

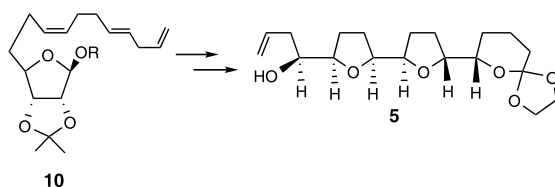
Lars G. J. Hammarström, Michael E. Meyer, David B. Smith* and Francisco X. Talamás

Roche Palo Alto, 3431 Hillview Avenue, Palo Alto, CA 94304, USA

A general solution-phase method for the synthesis of fully substituted purines is reported. The method is complimentary to existing solid-phase methodology.

**Highly functionalized *trans*-2,5-disubstituted tetrahydrofurans from ribofuranoside templates: precursors to linked polycyclic ethers***Tetrahedron Letters 44 (2003) 8365*

Darrin Dabideen and David R. Mootoo*

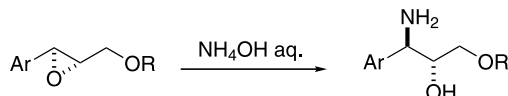
*Department of Chemistry, Hunter College, 695 Park Avenue, New York, NY 10021 and The Graduate Center, CUNY, 365 5th Avenue, New York, NY 10016, USA*The synthesis of the linked polycyclic ether **5** from ribofuranoside **10** is described.

Synthesis of enantiopure amino alcohols by ring-opening of epoxyalcohols and epoxyethers with ammonia

Tetrahedron Letters 44 (2003) 8369

Mireia Pastó, Belén Rodríguez, Antoni Riera and Miquel A. Pericàs*

Unitat de Recerca en Síntesi Asimètrica (URSA-PCB) Parc Científic de Barcelona and Departament de Química Orgànica, Universitat de Barcelona, c/Josep Samitier, 1-5. E-08028 Barcelona, Spain

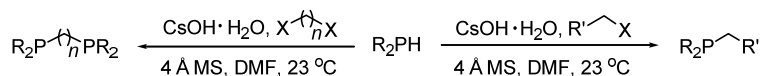


CsOH-promoted P-alkylation: a convenient and highly efficient synthesis of tertiary phosphines

Tetrahedron Letters 44 (2003) 8373

Matthew T. Honaker, Benjamin J. Sandefur, James L. Hargett, Alicia L. McDaniel and Ralph Nicholas Salvatore*

Department of Chemistry, Western Kentucky University, 1 Big Red Way, Bowling Green, KY 42101-3576, USA



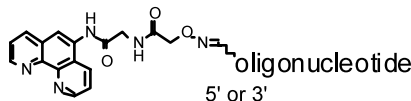
Synthesis of an oxyamino-containing phenanthroline derivative for the efficient preparation of phenanthroline oligonucleotide oxime conjugates

Tetrahedron Letters 44 (2003) 8379

Stéphanie Deroo, Eric Defrancq,* Cécile Moucheron, Andrée Kirsch-De Mesmaeker and Pascal Dumy

Laboratoire Européen Associé Ingénierie Biomoléculaire Université Joseph Fourier, BP 53, 38041 Grenoble Cedex 9, France et Université Libre de Bruxelles, CP. 160/08, B-1050 Brussels, Belgium

The conjugation of a phenanthroline moiety at either the 5'- or the 3'-end of oligonucleotides was efficiently achieved using oxime bond formation.



Monoalkylation of dihydroxycoumarins via Mitsunobu dehydroalkylation under high intensity ultrasound. The synthesis of ferujol

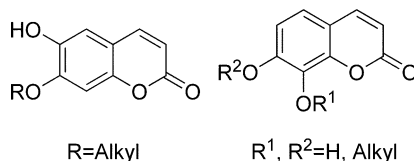
Tetrahedron Letters 44 (2003) 8383

Giancarlo Cravotto,^{a,*} Stefano Chimichi,^{b,*} Bruna Robaldo^a and Marco Boccalini^b

^a*Dipartimento di Scienza e Tecnologia del Farmaco, Università di Torino, via Giuria 9, 10125 Torino, Italy*

^b*Dipartimento di Chimica Organica 'U. Schiff', Università di Firenze, via della Lastruccia 13, I-50019 Sesto F.no, Firenze, Italy*

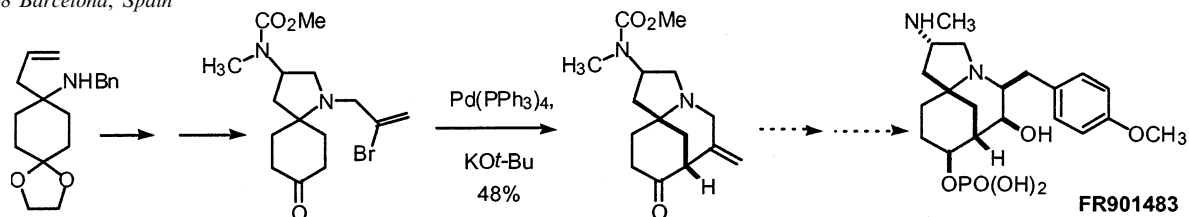
The synthesis of the phytoestrogen ferujol is reported for the first time.



A new synthetic entry to the tricyclic skeleton of FR901483 by palladium-catalyzed cyclization of vinyl bromides with ketone enolates

Josep Bonjoch,* Faïza Diaba, Gemma Puigbó, Emma Peidró and Daniel Solé*

Laboratori de Química Orgànica, Facultat de Farmàcia, Universitat de Barcelona, Av. Joan XXIII s/n, 08028 Barcelona, Spain



FR901483

Synthesis of 2-iminothiazoline derivatives by sequential conjugate addition/annulation/ring-opening reactions

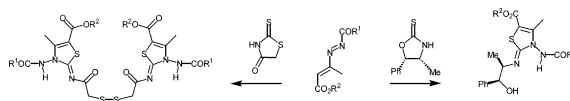
Antonio Arcadi,^a Orazio A. Attanasi,^b Gianluca Giorgi,^c Paolino Filippone,^{b,*} Elisabetta Rossi^d and Stefania Santeusano^{b,*}

^aDipartimento di Chimica, Ingegneria Chimica e dei Materiali della Facoltà di Scienze, Università de L'Aquila, Via Vetoio, Coppito Due, L'Aquila 67100, Italy

^bIstituto di Chimica Organica della Facoltà di Scienze Matematiche, Fisiche e Naturali, Università degli Studi di Urbino 'Carlo Bo', Piazza della Repubblica 13, Urbino 61029, Italy

^cDipartimento di Chimica e Centro Interdipartimentale di Analisi e Determinazioni Strutturali, Università di Siena, Via Aldo Moro, Siena 53100, Italy

^dIstituto di Chimica Organica della Facoltà di Farmacia, Università di Milano, Via Venezian, Milano 20139, Italy

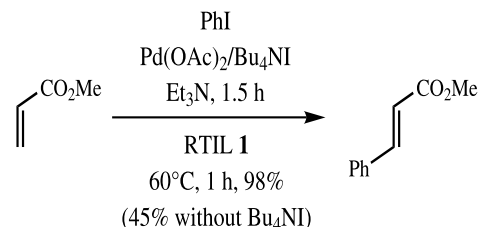


Halide effects on the Heck reaction in room temperature ionic liquids

Scott T. Handy* and Maurice Okello

Department of Chemistry, State University of New York at Binghamton, Binghamton, NY 13902-6000, USA

An interesting accelerating effect of catalytic amounts of certain halide ions on the Heck reaction in room temperature ionic liquids has been observed.

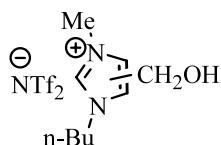


Fructose-derived ionic liquids: recyclable homogeneous supports

Scott T. Handy* and Maurice Okello

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

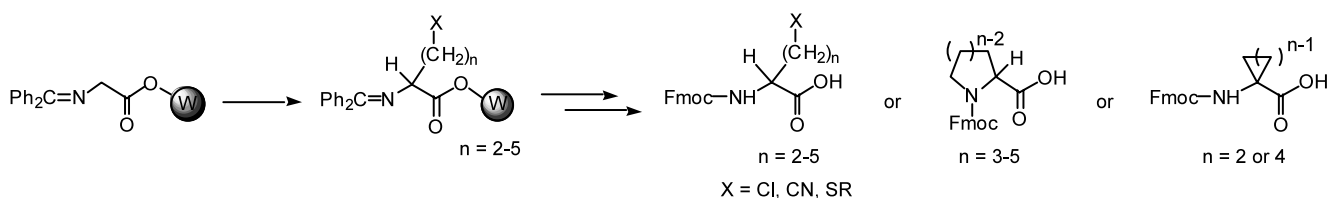
A new homogeneous support has been developed that is based on a fructose-derived ionic liquid.



Tetrahedron Letters 44 (2003) 8403

Martin J. O'Donnell,* Jordi Alsina and William L. Scott*

Department of Chemistry, Indiana University Purdue University Indianapolis, Indianapolis, IN 46202, USA



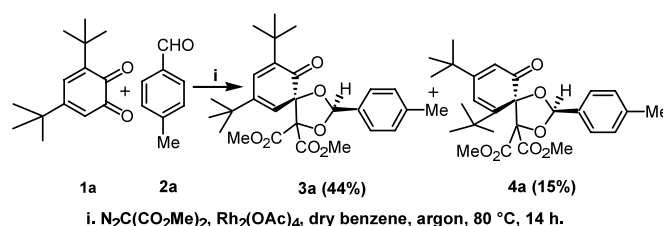
Tetrahedron Letters 44 (2003) 8407

Vijay Nair,^{a,*} Sindhu Mathai,^a Smitha M. Nair^a and Nigam P. Rath^b

^aOrganic Chemistry Division, Regional Research Laboratory, Trivandrum-695 019, India

^bDepartment of Chemistry, University of Missouri, St. Louis,
MI 63121-4499, USA

Successful trapping of the carbonyl ylides generated from dicarbomethoxycarbene and aldehydes with 1,2-diones is described.



Tetrahedron Letters 44 (2003) 8411

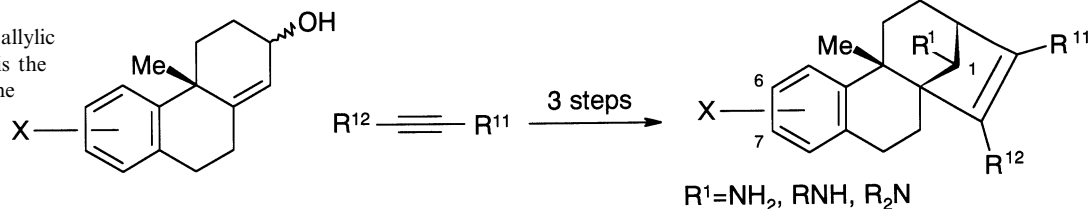
J. A. Miller,^{a,*} S. A. Pope,^b D. R. Riddall,^c G. M. Ullah^a and G. M. Welsh^a

^aDepartment of Medicinal Chemistry, Wellcome Research Laboratories, Langley Court, Beckenham, Kent BR3 3BS, UK

^bDepartment of Physical Sciences, Wellcome Research Laboratories, Langley Court, Beckenham, Kent BR3 3BS, UK

^cDepartment of Pharmacology, Wellcome Research Laboratories, Langley Court, Beckenham, Kent BR3 3BS, UK

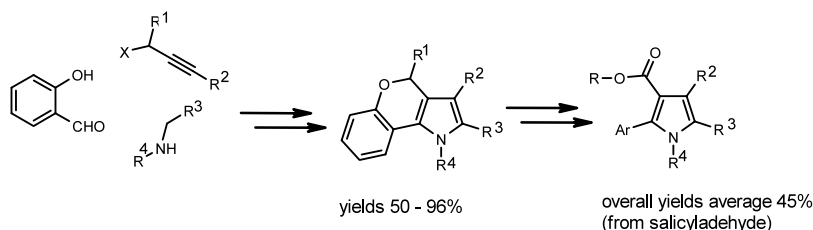
[3+2]Cycloaddition of allylic derivatives to alkynes is the key synthetic step in the preparation of opioid antagonist amines.



Tetrahedron Letters 44 (2003) 8417

George Bashiardes,* Imad Safir, Francis Barbot and Joelle Laduranty

Département de Chimie, SFA-UMR 6514, Université de Poitiers, 40 avenue du Recteur Pineau, 86022 Poitiers, France



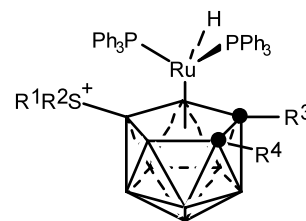
**Kharasch addition catalysed by half-sandwich ruthenium complexes.
Enhanced activity of ruthenacarboranes**

Tetrahedron Letters 44 (2003) 8421

Oscar Tutusaus,^a Sébastien Delfosse,^b Albert Demonceau,^{b,*} Alfred F. Noels,^b
Clara Viñas^{a,*} and Francesc Teixidor^a

^a*Institut de Ciència de Materials de Barcelona, CSIC, Campus de la U.A.B.,
08193 Bellaterra, Spain*

^b*Laboratory of Macromolecular Chemistry and Organic Catalysis, University of Liège,
Sart-Tilman (B.6a), B-4000 Liège, Belgium*



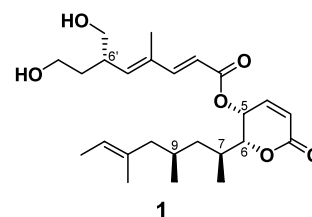
Absolute stereochemistry of TT-1 (rasfonin), an α -pyrone-containing natural product from a fungus, *Trichurus terrophilus*

Tetrahedron Letters 44 (2003) 8427

Kohki Akiyama, Souichi Kawamoto, Haruhiro Fujimoto and Masami Ishibashi*

Graduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

Absolute stereochemistry of TT-1 (**1** = rasfonin), an α -pyrone-containing natural product from a Fungi Imperfecti *Trichurus terrophilus* was determined as 5*R*,6*R*,7*S*, 9*R*, and 6'*S* on the basis of synthesis of diastereomers of two fragments of **1** in optically active forms, and comparison of their spectral and optical data with those of natural specimens.

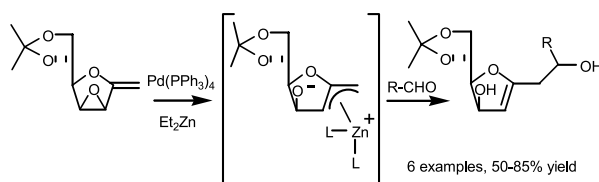


A novel entry to C-glycals via diethylzinc-mediated umpolung of π -allyl palladium derived from 1-*exo*-methylene 2,3-anhydrofuranoses

Tetrahedron Letters 44 (2003) 8433

Ana M. Gómez,* Aitor Barrio, Ana Pedregosa, Serafín Valverde and J. Cristóbal López*

Instituto de Química Orgánica General, C.S.I.C., Juan de la Cierva 3, 28006 Madrid, Spain

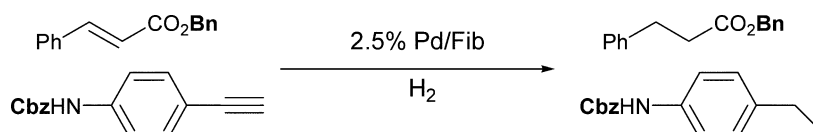


Markedly chemoselective hydrogenation with retention of benzyl ester and N-Cbz functions using a heterogeneous Pd-fibroin catalyst

Tetrahedron Letters 44 (2003) 8437

Hironao Sajiki,* Takashi Ikawa and Kosaku Hirota*

Laboratory of Medicinal Chemistry, Gifu Pharmaceutical University, Mitahora-higashi, Gifu 502-8585, Japan

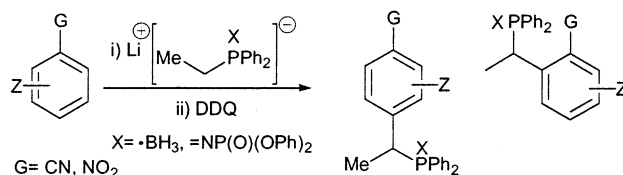


Nucleophilic aromatic substitution of hydrogen through lithiated phosphine borane complexes and *N*-phosphorylphosphazenes

Tetrahedron Letters 44 (2003) 8441

Carmen M. Andújar Sánchez, M^a José Iglesias, Isidro J. Pérez Álvarez and Fernando López Ortiz*

Área de Química Orgánica, Universidad de Almería, Carretera de Sacramento, 04120 Almería, Spain

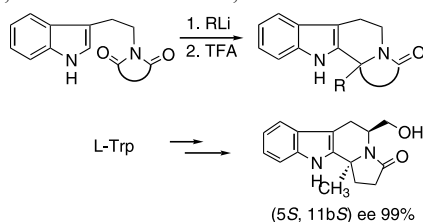


A practical approach to the fused β -carboline system. Asymmetric synthesis of indolo[2,3-*a*]indolizidinones via a diastereoselective intramolecular α -amidoalkylation reaction

Tetrahedron Letters 44 (2003) 8445

Ainhoa Ardeo, Eva García, Sonia Arrasate, Esther Lete* and Nuria Sotomayor

Departamento de Química Orgánica II, Facultad de Ciencias, Universidad del País Vasco/Euskal Herriko Unibertsitatea, Apdo. 644. 48080 Bilbao, Spain



Dihydropyridine-based MCRs. New reaction pathways in the interaction with ethyl glyoxalate and non-aromatic amines

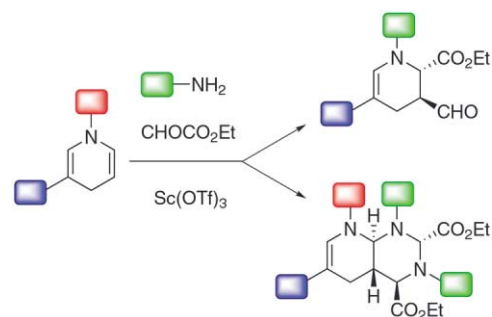
Tetrahedron Letters 44 (2003) 8449

Inés Carranco,^a José Luis Díaz,^a Oscar Jiménez^a and Rodolfo Lavilla^{a,b,*}

^aParc Científic de Barcelona, University of Barcelona, Josep Samitier 1-5, 08028-Barcelona, Spain

^bLaboratory of Organic Chemistry, Faculty of Pharmacy, University of Barcelona, Avda Joan XXIII sn, 08028 Barcelona, Spain

New reaction pathways are described in the interaction of dihydropyridines with ethyl glyoxalate and aliphatic amines in Lewis acid-catalyzed MCRs.

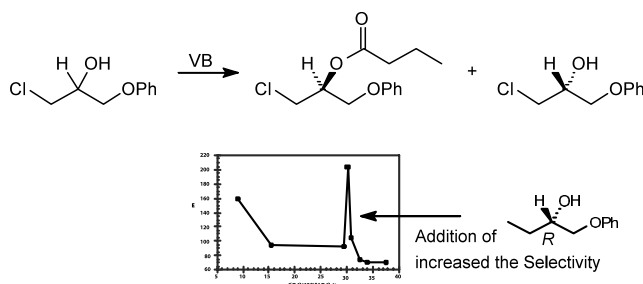


Enhanced selectivity in Novozym 435 catalyzed kinetic resolution of secondary alcohols and butanoates caused by the (*R*)-alcohols

Tetrahedron Letters 44 (2003) 8453

Elisabeth Egholm Jacobsen, Erik van Hellemond, Anders Riise Moen, Lucia Camino Vazquez Prado and Thorleif Anthonsen*

Department of Chemistry, Norwegian University of Science and Technology, N-7491 Trondheim, Norway

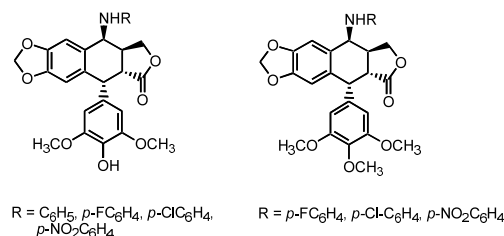


A one-pot, efficient and facile synthesis of 4 β -arylamino-podophyllotoxins: synthesis of NPF and GL-331 as DNA topoisomerase II inhibitors

Tetrahedron Letters 44 (2003) 8457

Ahmed Kamal,* B. Ashwini Kumar and M. Arifuddin

Division of Organic Chemistry, Indian Institute of Chemical Technology, Hyderabad 500007, India



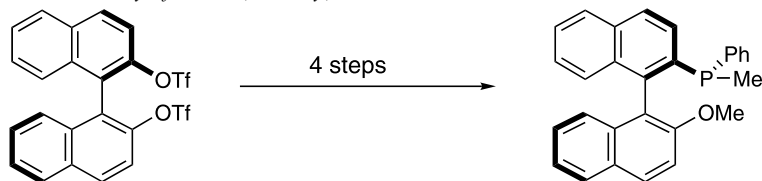
Studies in the preparation of novel *P*-chirogenic binaphthyl monophosphanes (MOPs)

Tetrahedron Letters 44 (2003) 8461

Nessan J. Kerrigan,^a Eoin C. Dunne,^a Desmond Cunningham,^b Patrick McArdle,^b Karen Gilligan^b and Declan G. Gilheany^{a,*}

^aChemistry Department, The Centre for Synthesis and Chemical Biology, Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4, Ireland

^bChemistry Department, National University of Ireland, Galway, Ireland



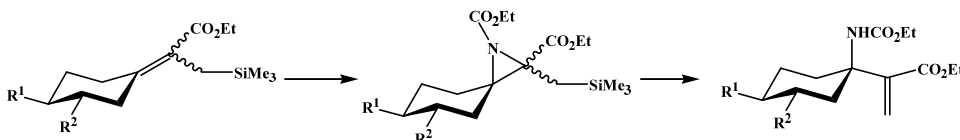
Synthesis of β,β -branched β -amino ester derivatives through spiroaziridination of (α -trimethylsilanylmethyl)cyclohexylidene esters

Tetrahedron Letters 44 (2003) 8467

Tecla Gasperi,^{a,b} M. Antonietta Loreto^{a,b,*} and P. Antonio Tardella^a

^aDipartimento di Chimica, Università 'La Sapienza', P. le Aldo Moro 5, I-00185 Rome, Italy

^bIstituto C.N.R. di Chimica Biomolecolare-Sezione Roma, Dipartimento di Chimica, Università 'La Sapienza', P. le Aldo Moro 5, I-00185 Rome, Italy



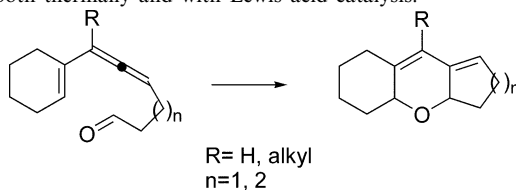
Intramolecular hetero Diels–Alder reactions of vinyl allenes and aldehydes

Tetrahedron Letters 44 (2003) 8471

David Regás, Juan M. Ruiz, María M. Afonso, Antonio Galindo and J. Antonio Palenzuela*

Instituto Universitario de Bio-Organica 'Antonio González', Departamento de Química Orgánica, Universidad de La Laguna, 38206 La Laguna, Tenerife, Spain

The title reaction has been carried out both thermally and with Lewis acid catalysis.



New polythiophenes bearing electron-acceptor phthalocyanine chromophores

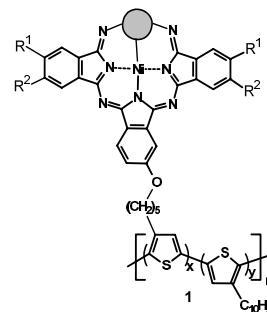
Tetrahedron Letters 44 (2003) 8475

M. Victoria Martínez-Díaz,^a Sagrario Esperanza,^a Andrés de la Escosura,^a Marinella Catellani,^{b,*} Sami Yunus,^b Silvia Luzzati^b and Tomás Torres^{a,*}

^aDepartamento de Química Orgánica (C-I), Universidad Autónoma de Madrid, Cantoblanco 28049 Madrid, Spain

^bIstituto per lo Studio delle Macromolecole (ISMAL), Consiglio Nazionale delle Ricerche, Via Bassini, 15, I-20133 Milano, Italy

Two new donor-acceptor copolymers comprising a polythiophene backbone and bearing phthalocyanine moieties on the side chains have been prepared. Preliminary photophysical characterization of these materials by FTIR photoinduced absorption indicates that electron transfer from the polythiophene to the phthalocyanine units takes place.

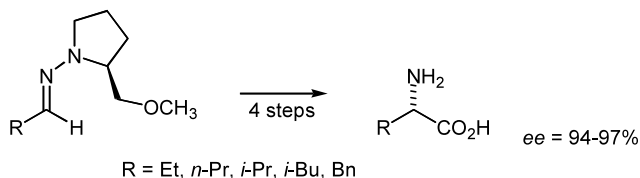


Asymmetric Strecker synthesis by addition of trimethylsilyl cyanide to aldehyde SAMP-hydrazones

Tetrahedron Letters 44 (2003) 8479

Dieter Enders* and Michael Moser

Institut für Organische Chemie, Rheinisch-Westfälische Technische Hochschule, Professor Pirlet-Str. 1, 52074 Aachen, Germany

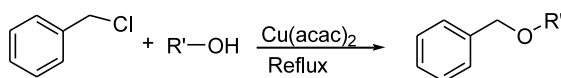


Benzylation of alcohols by using bis[acetylacetonato]copper as catalyst

Tetrahedron Letters 44 (2003) 8483

Okan Sirkecioglu,* Bekir Karliga and Naciye Talinli

Istanbul Technical University, Faculty of Science and Letters, Chemistry Department, Maslak 34469 Istanbul, Turkey

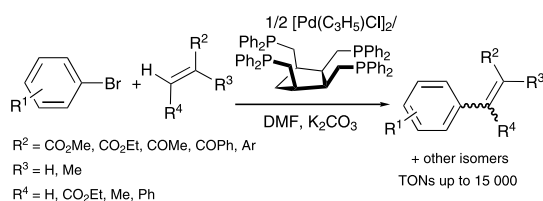


Tetrakisphosphine/palladium-catalyzed Heck reactions of aryl halides with disubstituted alkenes

Tetrahedron Letters 44 (2003) 8487

Isabelle Kondolff, 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



Solid phase synthesis of tetrahydro-1,4-benzodiazepin-2-ones

Tetrahedron Letters 44 (2003) 8493

Neal D. Hone,* William Wilson and John C. Reader

Millennium Pharmaceuticals Ltd, Granta Park, Great Abington, Cambridge CB1 6ET, UK



Synthesis of paramagnetic BODIPY dyes as new double (spin and fluorescence) sensors

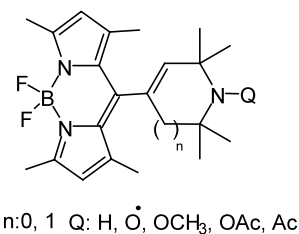
Tetrahedron Letters 44 (2003) 8497

Tamás Kálai,^a Éva Hideg,^b József Jekő^c and Kálmán Hideg^{a,*}

^aInstitute of Organic and Medicinal Chemistry, University of Pécs, H-7602 Pécs, PO Box 99, Hungary

^bInstitute of Plant Biology, Biological Research Center, H-6701 Szeged, PO Box 521, Hungary

^cICN Hungary Ltd., H-4440 Tiszavasvári, PO Box 1, Hungary



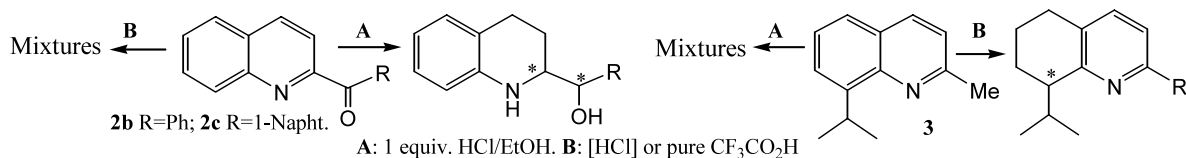
Partial hydrogenation of substituted pyridines and quinolines: a crucial role of the reaction conditions

Tetrahedron Letters 44 (2003) 8501

A. Solladié-Cavallo,^{a,*} M. Roje,^{a,b} A. Baram^a and V. Šunjić^b

^aDépartement de Chimie Organique Fine, ECPM/Université Louis Pasteur, 67087-Strasbourg, France

^bLaboratory for Stereoselective Catalysis and Biocatalysis, Department of Organic Chemistry and Biochemistry, Ruder Bošković Institute, Bijenička 54, 10000 Zagreb, Croatia

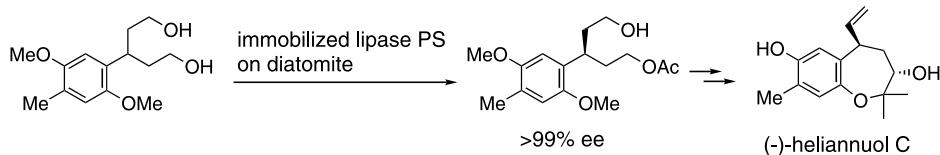


First enantioselective total synthesis of (–)-heliannuol C

Tetrahedron Letters 44 (2003) 8505

Tomoyo Kamei, Mitsuru Shindo and Kozo Shishido*

Institute for Medicinal Resources, University of Tokushima, 1-78 Sho-machi, Tokushima 770-8505, Japan

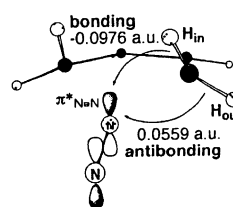
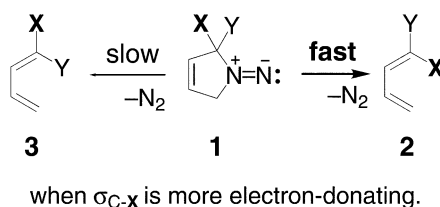


Geminal bond participation and torquoselectivity in cheletropic reactions

Tetrahedron Letters 44 (2003) 8509

Yuji Naruse,* Yasuhiro Hayashi and Satoshi Inagaki

Department of Chemistry, Gifu University, 1-1 Yanagido, Gifu 501-1193, Japan



Reaction of tertiary cyclopropyl silyl ethers with diethylaminosulfur trifluoride: the effects of substituents on the cleavage of the cyclopropane ring

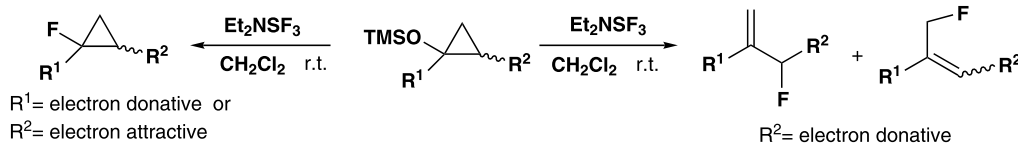
Tetrahedron Letters 44 (2003) 8513

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Oncidinol—a novel diacylglycerol from *Ornithophora radicans* Barb. Rodr. (Orchidaceae) floral oil

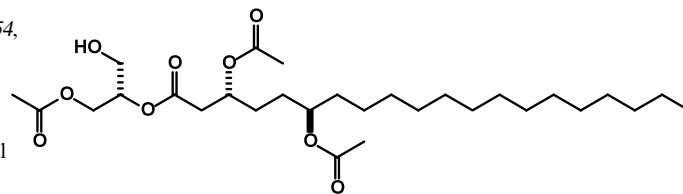
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A new component of the *Ornithophora radicans* (Oncidiinae) floral oil has been fully characterized as (2*S*,3'*R*,6'*R*)-1-acetyl-2-(3',6'-diacetoxyeicosanyl) glycerol. The floral oil is offered as a reward to bees acting as pollen vectors.



Cyclopentadienones as intermediates for the synthesis of highly functionalized biaryls

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