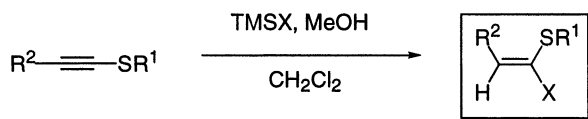
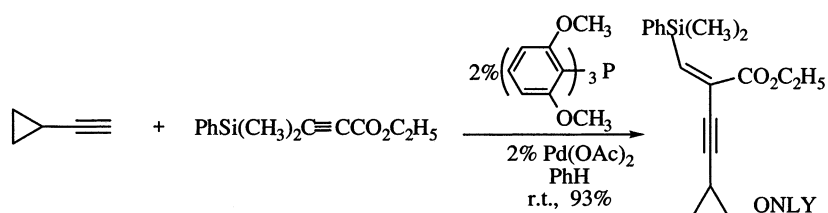


A stereoselective synthesis of α -halo vinyl sulfides and their applications in organic synthesis*Tetrahedron Letters 42 (2001) 3771*

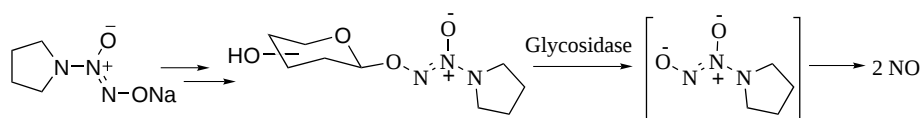
Mei Su, Wensheng Yu and Zhendong Jin*

Division of Medicinal and Natural Products Chemistry, College of Pharmacy, The University of Iowa, Iowa City, IA 52242, USA**An unusual regioselectivity in the Pd-catalyzed cross coupling of alkynes. A correction***Tetrahedron Letters 42 (2001) 3775*

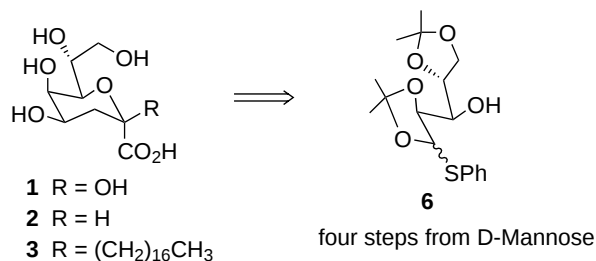
Barry M. Trost,* Janet L. Gunzner and Tatsuro Yasukata

Department of Chemistry, Stanford University, Stanford, CA 94305-5080, USA**Glycosylated diazeniumdiolates: a novel class of enzyme-activated nitric oxide donors***Tetrahedron Letters 42 (2001) 3779*

Xuejun Wu, Xiaoping Tang, Ming Xian and Peng George Wang*

Department of Chemistry, Wayne State University, Detroit, MI 48202, USA**Synthesis of KDO and analogues from a novel mannose-derived precursor***Tetrahedron Letters 42 (2001) 3783*

Govindaraj Kumaran and David R. Mootoo*

Department of Chemistry, Hunter College/CUNY, 695 Park Avenue, New York, NY 10021, USA

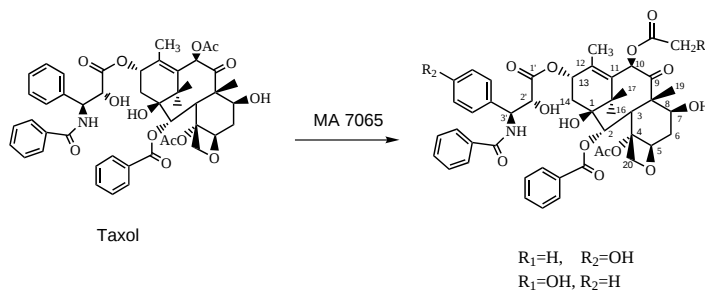
Biotransformation of taxol

Tom S. Chen,^{a,*} Xiaohua Li,^a Dan Bollag,^a
Yeuh-chuen Liu^b and Ching-jer Chang^b

^aMerck Research Laboratories, Rahway, NJ 07065, USA

^bDepartment of Medicinal Chemistry and Molecular
Pharmacology, Purdue University, W. Lafayette,
IN 47907, USA

Bioconversion of taxol by *Streptomyces* sp. MA 7065
resulted in hydroxylation on the 10-acetyl methyl group
in 60% yield and on the benzene ring at the *para*
position of the phenylisoserine side chain in 10% yield.

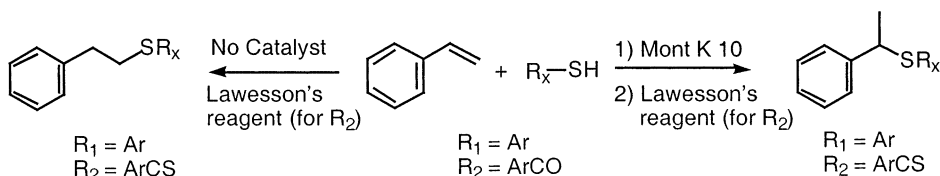


Tetrahedron Letters 42 (2001) 3787

Montmorillonite K 10-catalyzed regioselective addition of thiols and thiobenzoic acids onto olefins: an efficient synthesis of dithiocarboxylic esters

Subbareddy Kanagasabapathy, Arumugam Sudalai and Brian C. Benicewicz*

NYS Center for Polymer Synthesis and Department of Chemistry, Rensselaer Polytechnic Institute, Troy, NY 12180, USA



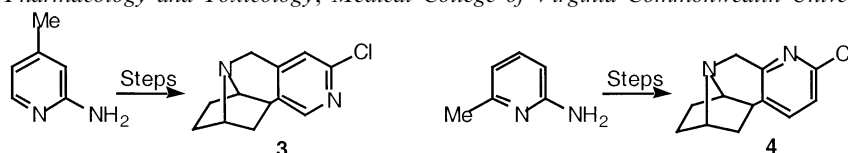
Tetrahedron Letters 42 (2001) 3791

Synthesis of bridged analogs of epibatidine. 3-Chloro-5,7,8,9,9a,10- hexahydro-7,10-methanopyrrolo[1,2-*b*]-2,6-naphthyridine and 2-chloro-5,5a,6,7,8,10-hexahydro-5,8-methanopyrrolo[2,1-*b*]-1,7-naphthyridine

Lawrence E. Brieady,^a S. Wayne Mascarella,^a Hernán A. Navarro,^a Robert N. Atkinson,^a M. I. Damaj,^b
Billy R. Martin^b and F. Ivy Carroll^{a,*}

^aChemistry and Life Sciences, Research Triangle Institute, PO Box 12194, Research Triangle Park, NC 27709, USA

^bDepartment of Pharmacology and Toxicology, Medical College of Virginia Commonwealth University, Richmond, VA 23298, USA

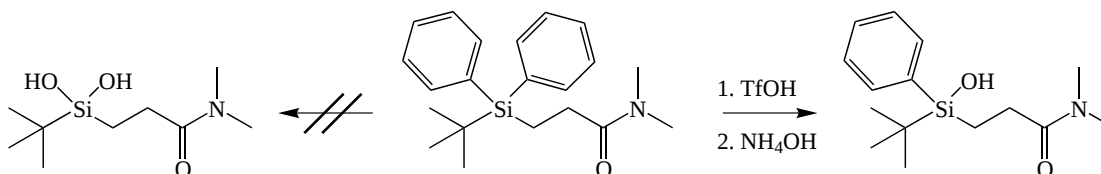


Tetrahedron Letters 42 (2001) 3795

Studies in silanol synthesis: internal nucleophiles and steric hindrance

Athanasios Glekas and Scott McN. Sieburth*

Department of Chemistry, State University of New York at Stony Brook, Stony Brook, NY 11794-3400, USA



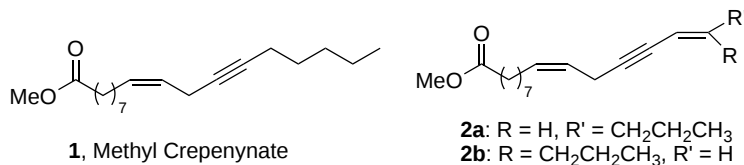
Tetrahedron Letters 42 (2001) 3799

Improved syntheses of methyl (14*E*)- and (14*Z*)-dehydrocrepenynate: key intermediates in plant and fungal polyacetylene biosynthesis

Tetrahedron Letters 42 (2001) 3803

Lizhi Zhu and Robert E. Minto*

Department of Chemistry and Biochemistry, Miami University, Oxford, OH 45056, USA

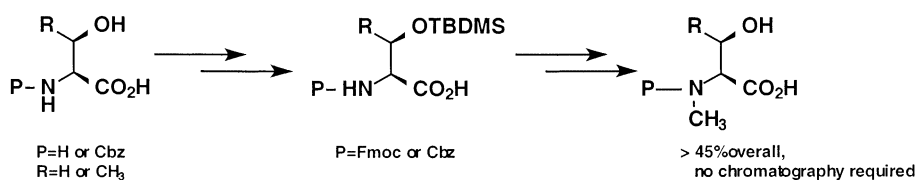


Synthesis of *N*-protected *N*-methyl serine and threonine

Tetrahedron Letters 42 (2001) 3807

Yue Luo, Ghotas Evindar, Dan Fishlock and Gilles A. Lajoie*

Department of Chemistry, University of Waterloo, Waterloo, Ontario, Canada N2L 3G1

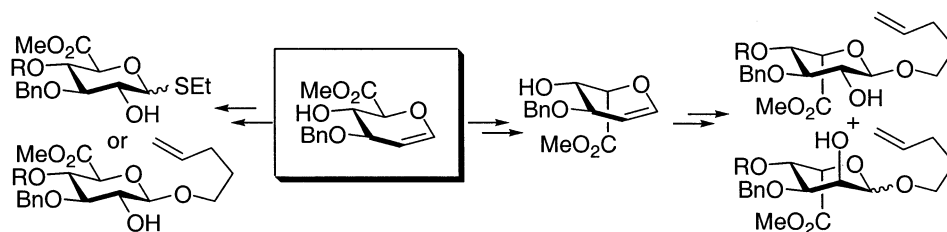


Synthesis and transformations of *D*-glucuronic and *L*-iduronic acid glycals

Tetrahedron Letters 42 (2001) 3811

Peter Schell, Hernan A. Orgueira, Susanne Roehrig and Peter H. Seeberger*

Department of Chemistry, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139, USA



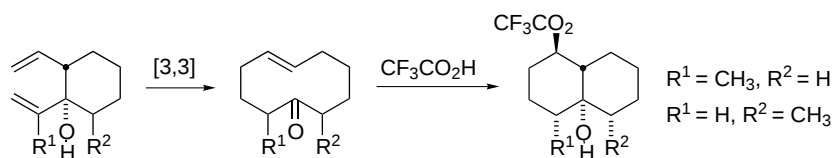
Acid-induced transannular cyclization of 2-methyl- and 10-methyl-5-cyclodecenone

Tetrahedron Letters 42 (2001) 3815

Yongliang Chu,^a James B. White^{b,*} and Brian A. Duclos^b

^a*Department of Chemistry and Biochemistry, Box 19065, The University of Texas at Arlington, Arlington, TX 76019, USA*

^b*Division of Natural Science, Pepperdine University, 24255 Pacific Coast Highway, Malibu, CA 90263, USA*



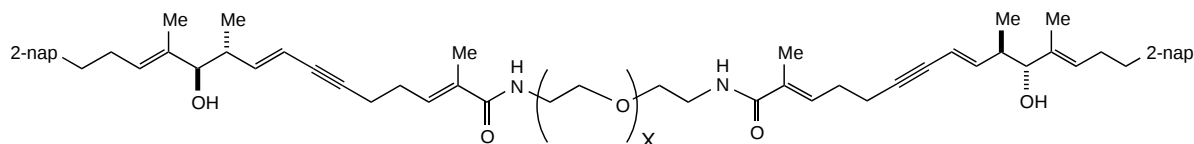
Synthesis and analysis of polyethylene glycol linked P-glycoprotein-specific homodimers based on (–)-stipiamide

Tetrahedron Letters 42 (2001) 3819

Merritt B. Andrus,^{a,*} Timothy M. Turner,^a Emily P. Updegraff,^a Zuben E. Sauna^b and Suresh V. Ambudkar^b

^aBrigham Young University, Department of Chemistry and Biochemistry, C100 BNSN, Provo, UT 84602-5700, USA

^bNational Cancer Institute, NIH, Laboratory of Cell Biology, Division of Basic Sciences, Building 37, Room 1B-17 37 Convent Dr., MSC4255 Bethesda, MD 20878-4255, USA



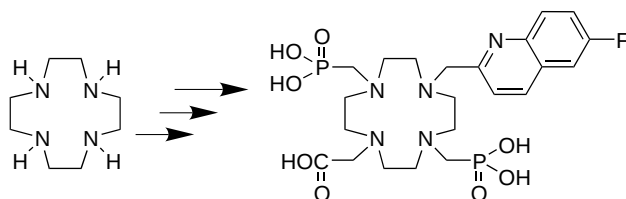
Simple, high yielding synthesis of trifunctional fluorescent lanthanide chelates

Tetrahedron Letters 42 (2001) 3823

John M. M. Griffin, Anna M. Skwierawska, H. Charles Manning, John N. Marx and Darryl J. Bornhop*

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

A simple and efficient route to trifunctional-bioconjugable, lanthanide chelates.



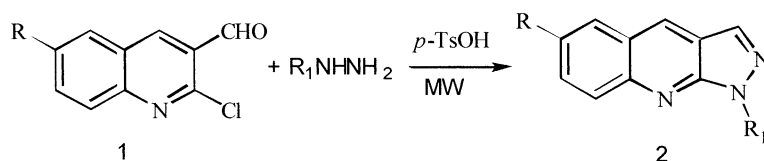
Microwave assisted solvent-free synthesis of pyrazolo[3,4-*b*]-quinolines and pyrazolo[3,4-*c*]pyrazoles using *p*-TsOH

Tetrahedron Letters 42 (2001) 3827

Satya Paul,^a Mukta 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, France

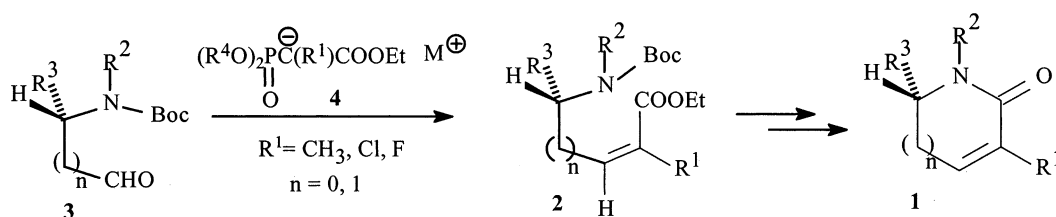


Enantioselective synthesis of α,β -unsaturated γ - and δ -lactams

Tetrahedron Letters 42 (2001) 3831

Claude Grison,* Stéphane Genève and Philippe Coutrot

Laboratoire de Chimie Organique Biomoléculaire, I.N.C.M.FR CNRS 1742, UMR 7565, Université Henri Poincaré-Nancy I, BP 239, 54506 Vandoeuvre, France



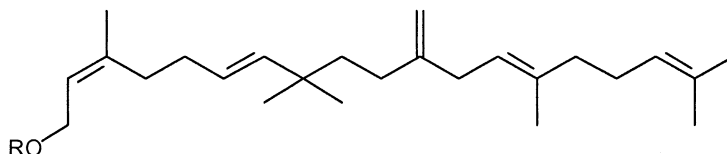
The biosynthesis of moenocinol, the lipid part of the moenomycin antibiotics

Tetrahedron Letters 42 (2001) 3835

Urs Schuricht,^a Lothar Hennig,^a Matthias Findeisen,^a Peter Welzel^{a,*} and Duilio Arigoni^{b,*}

^aFakultät für Chemie und Mineralogie, Universität Leipzig, Johannisallee 29, D-04103 Leipzig, Germany

^bLaboratorium für Organische Chemie, Eidgenössische Technische Hochschule, Universitätsstraße 16, CH-8092 Zürich, Switzerland

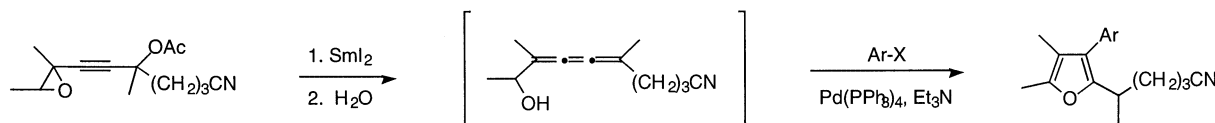


Synthesis of tetrasubstituted furans by sequential SmI₂-promoted reduction and Pd-catalyzed cyclization

Tetrahedron Letters 42 (2001) 3839

José M. Aurrecoechea* and Elena Pérez

Departamento de Química Orgánica, Facultad de Ciencias, Universidad del País Vasco, Apartado 644, 48080 Bilbao, Spain

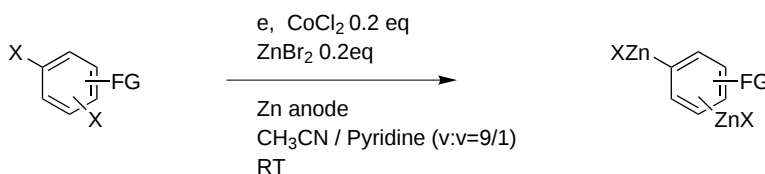


Electrosynthesis of functionalized organodizinc compounds from aromatic dihalides via a cobalt catalysis in acetonitrile/pyridine as solvent

Tetrahedron Letters 42 (2001) 3843

Hyacinthe Fillon, Corinne Gosmini,* Jean-Yves Nédélec and Jacques Périchon

Laboratoire d'Electrochimie, Catalyse et Synthèse Organique, UMR 7582, Université Paris 12-CNRS, 2, Rue Henri Dunant, F-94320 Thiais, France



Expedition preparation of 2-substituted quinolines

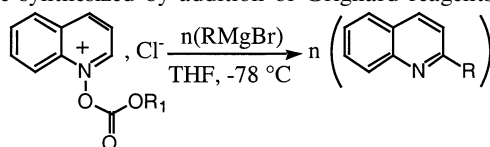
Tetrahedron Letters 42 (2001) 3847

Mohamed A. Fakhfakh,^a Xavier Franck,^a Alain Fournet,^{a,b} Reynald Hocquemiller^a and Bruno Figadère^{a,*}

^aLaboratoire de Pharmacognosie, associé au CNRS (BIOCIS), Université Paris-Sud, Faculté de Pharmacie, rue Jean-Baptiste Clément, F-92296 Châtenay-Malabry, France

^bInstitut de Recherche pour le Développement (IRD), 213 rue La Fayette, F-75480 Paris, France

Several 2-substituted quinolines were synthesized by addition of Grignard reagents onto quinolinium salts in one pot.

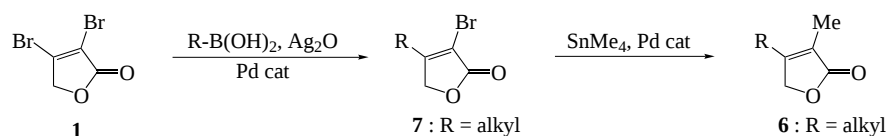


Synthesis of 4-alkyl-3-bromo-2(5H)-furanones and unsymmetrically disubstituted 3,4-dialkyl-2(5H)-furanones by palladium-catalyzed cross-coupling reactions

Tetrahedron Letters 42 (2001) 3851

Fabio Bellina,* Chiara Anselmi and Renzo Rossi

Dipartimento di Chimica e Chimica Industriale, University of Pisa, via Risorgimento 35, I-56126 Pisa, Italy

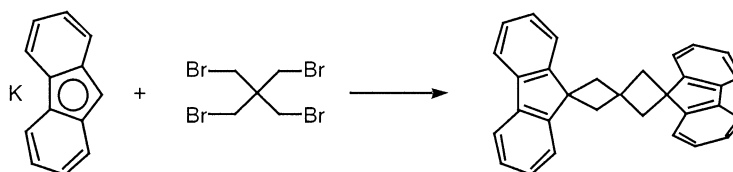


Synthesis and X-ray crystal structure of spiro[3.3]heptane-2,6-dispirofluorene

Tetrahedron Letters 42 (2001) 3855

Olivier Pons Y. Moll, Thierry Le Borgne, Pierre Thuéry and Michel Ephritikhine*

Service de Chimie Moléculaire, DRECAM, DSM, CNRS URA 331, CEA Saclay, 91191 Gif-sur-Yvette, France

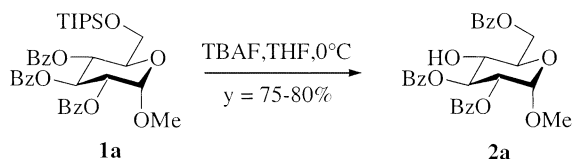


A mild and efficient approach for the regioselective silyl-mediated protection-deprotection of C-4 hydroxyl group on carbohydrates

Tetrahedron Letters 42 (2001) 3857

Andrea Graziani, Pietro Passacantilli,* Giovanni Piancatelli* and Simona Tani

Dipartimento di Chimica, Università 'La Sapienza' and Centro CNR di Studi per la Chimica delle Sostanze Organiche Naturali, Piazzale Aldo Moro, 5, Box 34-Roma 62, 00185 Rome, Italy

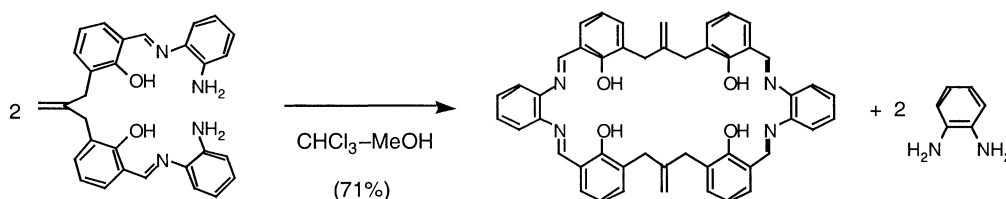


Spontaneous macrocyclization via recombination of a Schiff-base linkage

Tetrahedron Letters 42 (2001) 3861

Hirohiko Houjou, Yoshinobu Nagawa and Kazuhisa Hiratani*

Nanoarchitectonics Research Center, National Institute of Advanced Industrial Science and Technology, 1-1-1 Higashi, Tsukuba, Ibaraki 305-8562, Japan



A practical one-pot synthesis of 2,3-disubstituted indoles from unactivated anilines

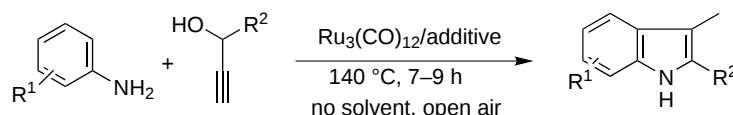
Tetrahedron Letters 42 (2001) 3865

Makoto Tokunaga,^{a,*} Mitsuru Ota,^c Masa-aki Haga^c and Yasuo Wakatsuki^{b,*}

^aPRESTO, Japan Science and Technology Corporation (JST), Saitama 332-0012, Japan

^bRIKEN (The Institute of Physical and Chemical Research), Wako, Saitama 351-0198, Japan

^cDepartment of Applied Chemistry, Chuo University, Kasuga, Bunkyo, Tokyo 112-0003, Japan

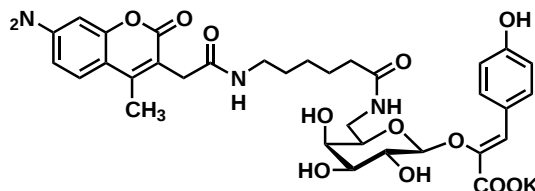


Direct observation of the target cell for leaf-movement factor using novel fluorescence-labeled probe compounds: fluorescence studies of nyctinasty in legumes. Part 1

Tetrahedron Letters 42 (2001) 3869

Minoru Ueda,^{*} Yoko Wada and Shosuke Yamamura^{*}

Laboratory of Natural Products Chemistry, Department of Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi, Yokohama 223-8522, Japan



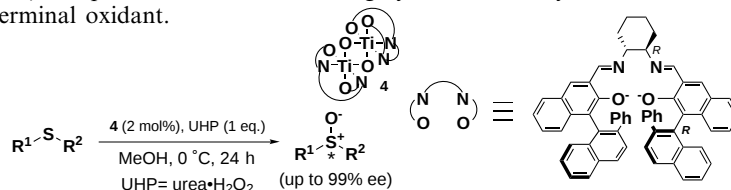
Ti(salen)-catalyzed enantioselective sulfoxidation using hydrogen peroxide as a terminal oxidant

Tetrahedron Letters 42 (2001) 3873

Bunnai Saito and Tsutomu Katsuki^{*}

Department of Chemistry, Faculty of Science, Graduate School, Kyushu University 33, CREST, JST (Japan Science and Technology), Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan

A chiral di-μ-oxo Ti(salen) complex was found to be a highly efficient catalyst for enantioselective sulfoxidation using hydrogen peroxide as terminal oxidant.

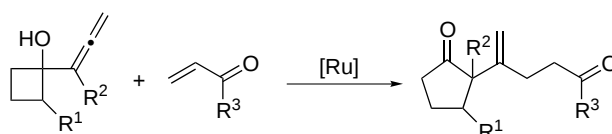


Ruthenium-catalyzed ring expansion reaction of allenylcyclobutanols

Tetrahedron Letters 42 (2001) 3877

Masahiro Yoshida, Kenji Sugimoto and Masataka Ihara^{*}

Department of Organic Chemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Aobayama, Sendai 980-8578, Japan



Novel formation of 1,2,4-triselenolanes by the reaction of *tert*-butylarylmethylenetriphenylphosphoranes with elemental selenium

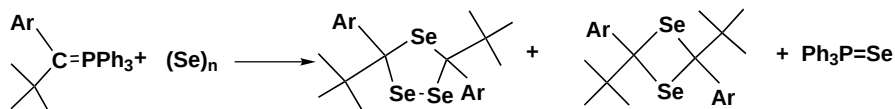
Tetrahedron Letters 42 (2001) 3881

Kentaro Okuma^{a,b,*} and Tomoaki Kubota^a

^aDepartment of Chemistry, Fukuoka University, Jonan-ku, Fukuoka 814-0180, Japan

^bAdvanced Materials Institute, Fukuoka University, Jonan-ku, Fukuoka 814-0180, Japan

Reaction of *tert*-butylarylmethylenetriphenylphosphoranes with elemental selenium afforded the corresponding 1,2,4-triselenolanes, 1,3-diselenetanes, and triphenylphosphine selenide.



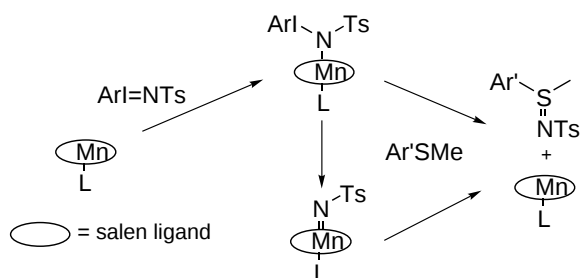
Mn(salen)-catalyzed sulfimination: what are the real active species in sulfimination?

Tetrahedron Letters 42 (2001) 3885

Chisa Ohta and Tsutomu Katsuki*

Department of Chemistry, Faculty of Science, Graduate School, Kyushu University 33, Hakozaki, Higashi-ku, Fukuoka 812-8581, Japan

Based on the unusual temperature effect on enantioselectivity observed in Mn(salen)-catalyzed sulfimination, it was proposed that both the Mn–ArINTs adduct and the Mn–nitrenoid take part in the sulfimination, depending on the reaction conditions.



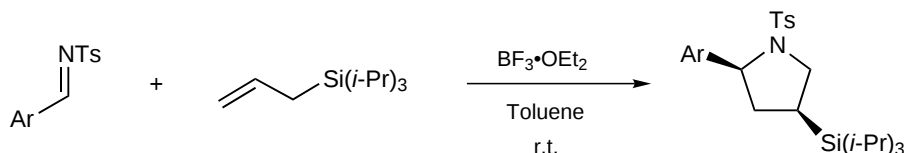
Lewis acid-mediated [3+2] cycloaddition of allyltriisopropylsilane to *N*-sulfonyl aldimines

Tetrahedron Letters 42 (2001) 3889

Takahiko Akiyama,* Megumi Sugano and Hirotaka Kagoshima

Department of Chemistry, Faculty of Science, Gakushuin University, 1-5-1, Mejiro, Toshima-ku, Tokyo 171-8588, Japan

BF₃·OEt₂-mediated [3+2] cycloaddition of allyltriisopropylsilane to *N*-sulfonyl aldimine afforded silyl substituted pyrrolidines in good yields. Excellent *cis* selectivity was observed with aromatic aldimines.

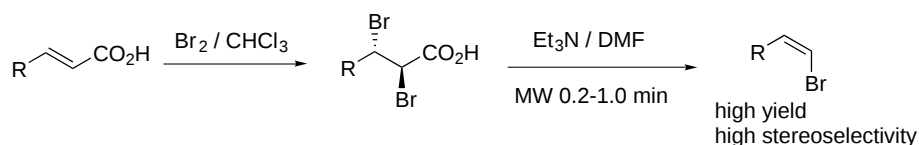


Convenient and stereoselective synthesis of (*Z*)-1-bromo-1-alkenes by microwave-induced reaction

Tetrahedron Letters 42 (2001) 3893

Chunxiang Kuang, Hisanori Senboku and Masao Tokuda*

Division of Molecular Chemistry, Graduate School of Engineering, Hokkaido University, Sapporo 060-8628, Japan



Intermolecular hydrogen transfers in 2,3-dihydroimidazol-2-ylidene and 2,3-dihydrothiazol-2-ylidene: a theoretical study

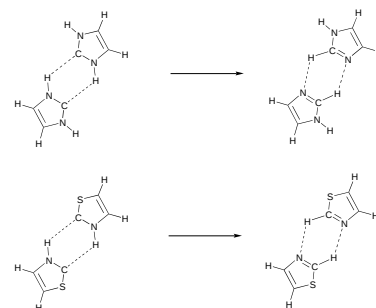
Tetrahedron Letters 42 (2001) 3897

Mu-Jeng Cheng^a and Ching-Han Hu^{b,*}

^aDepartment of Chemistry, National Tsing Hua University, Hsinchu 30043, Taiwan

^bDepartment of Chemistry, National Changhua University of Education, Changhua 50058, Taiwan

The prototype heterocyclic carbenes (2,3-dihydroimidazol-2-ylidene and 2,3-dihydrothiazol-2-ylidene) undergo intermolecular hydrogen transfers with very low activation barriers. Unlike their alkyl-substituted analogues, these carbenes cannot be isolated at room temperature.



Elaboration of a novel type of interglycosidic linkage: syntheses of disulfide disaccharides

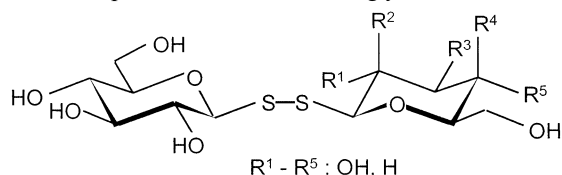
Tetrahedron Letters 42 (2001) 3901

László Szilágyi,^{a,*} Tünde-Zita Illyés^a and Pál Herczegh^b

^aDepartment of Organic Chemistry, University of Debrecen, H-4010 Debrecen, pf. 20., Hungary

^bAntibiotics Research Group of the Hungarian Academy of Science, H-4010 Debrecen, pf. 20., Hungary

Unsymmetrical disulfide disaccharides represent a novel class of glycomimetics.

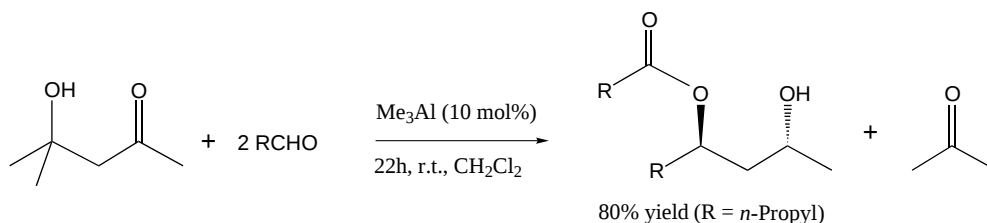


Tandem aldol-transfer-Tischtschenko reaction of aldehydes and β -hydroxyketones catalyzed by trimethylaluminum

Tetrahedron Letters 42 (2001) 3905

Ilkka Simpura* and Vesa Nevalainen

Department of Chemistry, PO Box 55 (A.I. Virtasen aukio 1), University of Helsinki, FIN-00014 Helsinki, Finland

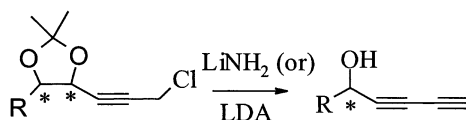


A highly efficient and practical method for the synthesis of chiral polyhydroxy diacetylenic alcohols

Tetrahedron Letters 42 (2001) 3909

J. S. Yadav* and Arup Maiti

Organic Chemistry Division-1, Indian Institute of Chemical Technology, Hyderabad 500007, India



Microwave-assisted Michael reactions of 3-(2'-nitrovinyl)indole with indoles on TLC-grade silica gel. A new, facile synthesis of 2,2-bis(3'-indolyl)nitroethanes

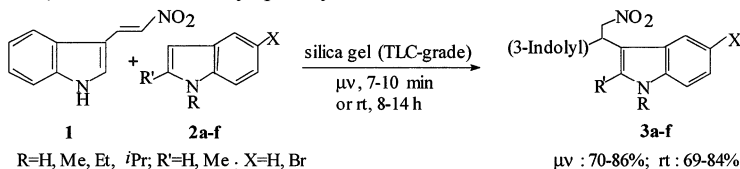
Tetrahedron Letters 42 (2001) 3913

Manas Chakrabarty,* Ramkrishna Basak and Nandita Ghosh

Department of Chemistry, Bose Institute, 93/1, A.P.C. Road, Calcutta 700009, India

Compound **1** underwent the first ever Michael reactions with indoles as nucleophiles on TLC-grade silica gel.

Diindolylnitroethanes (**3a-f**) were formed very quickly under microwave irradiation and much more slowly at room temperature.



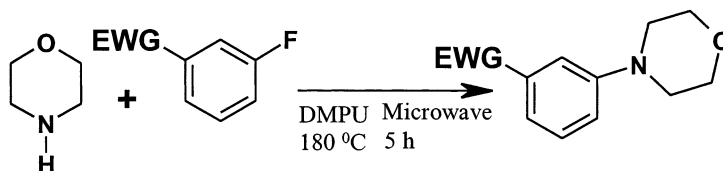
Improved yields of meta-amination and symmetrical and unsymmetrical diamination of benzenes

Tetrahedron Letters 42 (2001) 3917

George R. Brown,* Alan J. Foubister, Craig A. Roberts, Stuart L. Wells and Robin Wood

AstraZeneca, Alderley Park, Macclesfield, Cheshire SK10 4TG, UK

Amination of fluorobenzenes with an electron-withdrawing group proceeds in DMPU at 180°C over 5 h (sealed tube) in a microwave oven (300 W) with yields up to 93%.



Grob-type fragmentation of N-alkyl-2-cyano-5-bromopiperidines to unsaturated imidoyl cyanides

Tetrahedron Letters 42 (2001) 3921

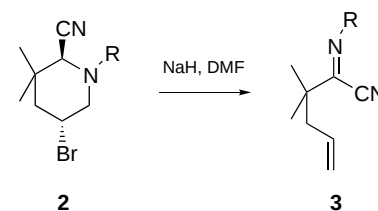
Erick Rosas Alonso,^a Kourosch Abbaspour Tehrani,^a Mark Boelens,^a David W. Knight,^b Valentina Yu^c and Norbert De Kimpe^{a,*}

^a*Department of Organic Chemistry, Faculty of Agricultural and Applied Biological Sciences, Ghent University, Coupure Links 653, B-9000 Ghent, Belgium*

^b*Department of Chemistry, Cardiff University, PO Box 912, Cardiff CF10 3TB, UK*

^c*Institute of Chemical Sciences, Department of Physiologically Active Substances, Chokan Valihanov Street, 480100 Almaty, Kazakhstan*

N-Alkyl-2-cyano-5-bromopiperidines **2** underwent a Grob-type ring opening elimination when treated with a slight excess of sodium hydride in DMF.



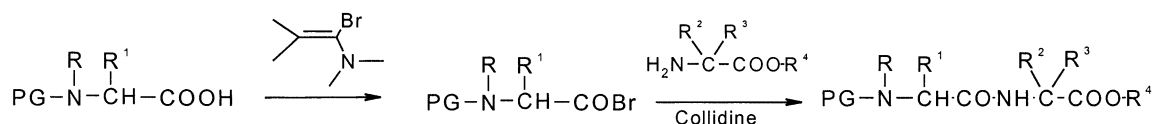
N-Protected amino acid bromides: efficient reagents for the incorporation into peptides of extremely hindered α,α-dialkyl- and α-fluoroalkyl-amino acids

Tetrahedron Letters 42 (2001) 3925

Alma DalPozzo,* Roberto Bergonzi and Minghong Ni

Istituto di Ricerche Chimiche e Biochimiche G. Ronzoni, via Colombo 81, 20133 Milan, Italy

Amino acid bromides prepared in situ afforded pure peptides with very hindered amino acid esters, in high yields and without any detectable racemization.

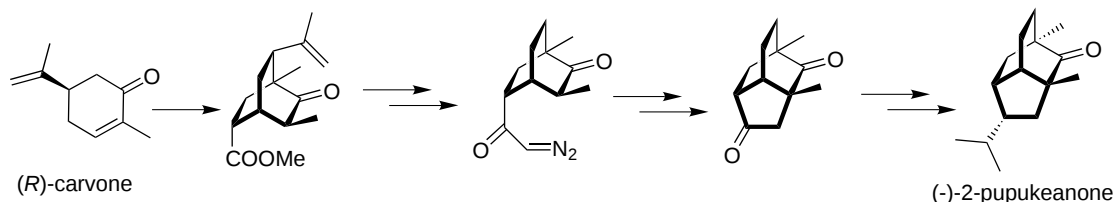


An enantiospecific synthesis of (–)-2-pupukeanone via a rhodium carbenoid C–H insertion reaction

Tetrahedron Letters 42 (2001) 3929

A. Srikrishna,* P. Ravi Kumar and Santosh J. Gharpure

Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India

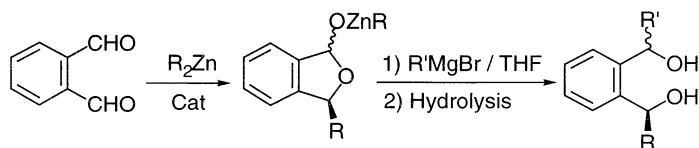


Enantioselective dialkylation of 1,2-phthalicdicarboxaldehyde

Tetrahedron Letters 42 (2001) 3933

Henk Kleijn, Johann T. B. H. Jastrzebski, Jaap Boersma and Gerard van Koten*

Department of Metal-Mediated Synthesis, Debye Institute, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands



Reaction of Baylis–Hillman products with Swern and Dess–Martin oxidants

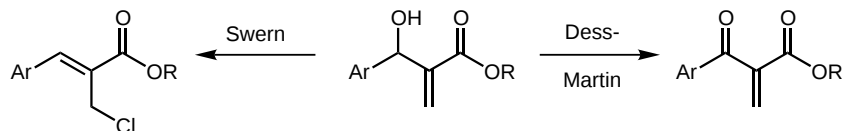
Tetrahedron Letters 42 (2001) 3939

Nicholas J. Lawrence,^{a,*} J. Paul Crump,^{b,c} Alan T. McGown^b and John A. Hadfield

^a*Department of Chemistry, Cardiff University, PO Box 912, Cardiff CF10 3TB, UK*

^b*CRC Department of Drug Development and Imaging, Paterson Institute for Cancer Research, Christie Hospital NHS Trust, Wilmslow Road, Manchester M20 4BX, UK*

^c*Department of Chemistry, UMIST, PO Box 88, Manchester M60 1QD, UK*



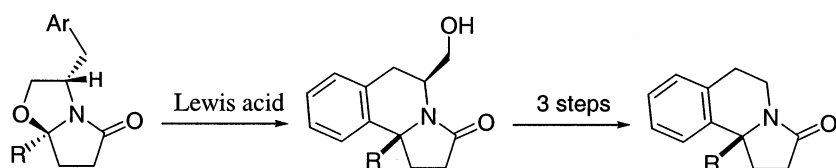
Stereoselective synthesis of the pyrroloisoquinoline ring system

Tetrahedron Letters 42 (2001) 3943

Steven M. Allin,^{a,*} Stella L. James,^a William P. Martin^b and Timothy A. D. Smith^a

^a*Department of Chemistry, Loughborough University, Loughborough, Leicestershire LE11 3TU, UK*

^b*Synthetic Chemistry, GlaxoSmithKline Pharmaceuticals, Harlow, Essex CM19 5AW, UK*



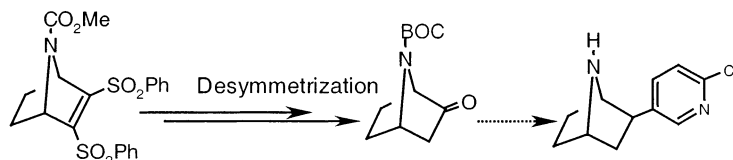
A short and efficient synthesis of enantiopure (+)-*N*-Boc-7-azabicyclo[2.2.1]heptan-2-one utilizing an asymmetric desymmetrization protocol: formal total synthesis of (–)-epibatidine

Tetrahedron Letters 42 (2001) 3947

Ganesh Pandey,^{a,*} Shashi Kant Tiwari,^a Ram Shanker Singh^a and Raghao S. Mali^{b,*}

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

^b*Department of Chemistry, University of Pune, 411007 Pune, India*



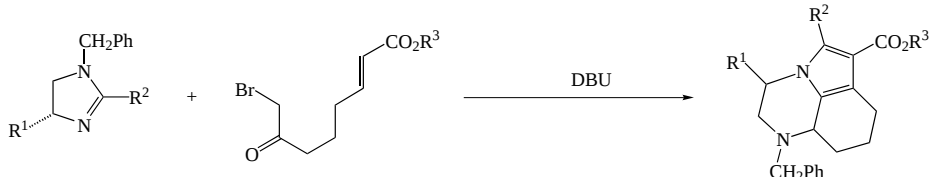
Pyrrolo[1,2,3-*de*]quinoxalines: unexpected products from 1,3-dipolar cycloaddition of dihydroimidazolium ylides

Tetrahedron Letters 42 (2001) 3951

Raymond C. F. Jones,^{a,*} James N. Iley,^{a,*} Pedro M. J. Lory,^a Simon C. Coles,^b Mark E. Light^b and Michael B. Hursthouse^b

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Highly regioselective ring opening of epoxides and aziridines using cerium(III) chloride

Tetrahedron Letters 42 (2001) 3955

Gowravaram Sabitha,^{*} R. Satheesh Babu, M. Rajkumar, Ch. Srinivas Reddy and J. S. Yadav

Organic Division I, Indian Institute of Chemical Technology, Hyderabad 500 007, India

A wide variety of epoxides and aziridines were converted to the corresponding β -halohydrins and β -haloamines using cerium(III) chloride and the cerium(III) chloride/NaI system in acetonitrile.

