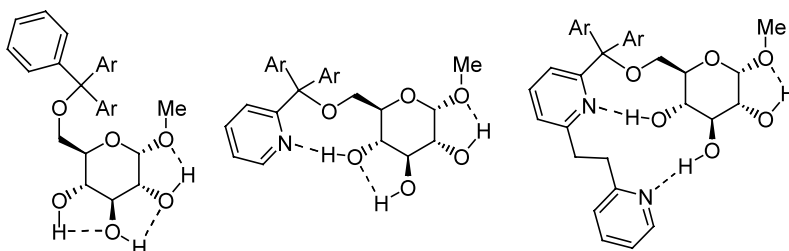


Modulation of the relative reactivities of carbohydrate secondary hydroxyl groups. Modification of the hydrogen bond network

Tetrahedron Letters 44 (2003) 1731

Nicolas Moitessier* and Yves Chapleur

Groupe SUCRES, Unité Mixte 7565 CNRS,
Université Henri Poincaré-Nancy 1, B.P. 239,
F-54506 Nancy-Vandœuvre, France



Stereoselective synthesis of (+)-hyptolide

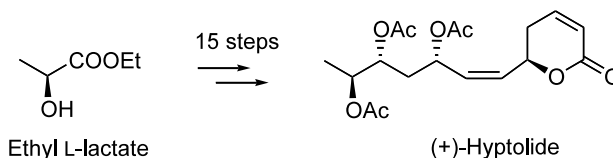
Tetrahedron Letters 44 (2003) 1737

Juan Murga,^a Jorge García-Fortanet,^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

(+)-Hyptolide, a naturally occurring, cytotoxic lactone, has been obtained from ethyl L-lactate in a stereoselective way through a synthetic 15-step sequence including an asymmetric allylboration, an asymmetric ethynylation and a ring-closing olefin metathesis.



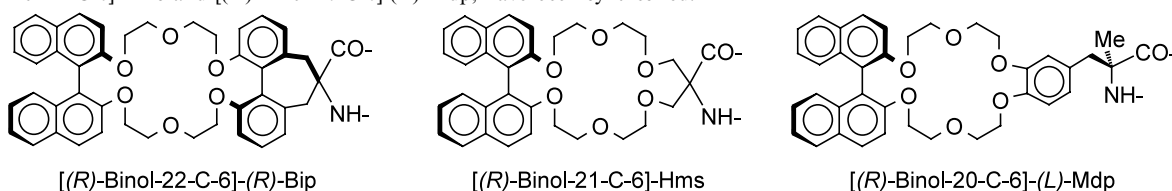
Towards peptide versions of Cram's host-guest chemistry: the synthesis of C^{α,α}-disubstituted glycines with binaphthol-based crowned side-chains

Tetrahedron Letters 44 (2003) 1741

Jean-Paul Mazaleyra*, Karen Wright, Maria-Vittoria Azzini, Anne Gaucher and Michel Wakselman

SIRCOB, UMR CNRS 8086, Bâtiment Lavoisier, University of Versailles, F-78000 Versailles, France

A new series of C^{α,α}-disubstituted glycines bearing binaphthol-based crown-ethers: [(R)-Binol-22-C-6]-(R)-Bip, [(R)-Binol-22-C-6]-(S)-Bip, [(R)-Binol-21-C-6]-Hms and [(R)-Binol-20-C-6]-(L)-Mdp, have been synthesized.

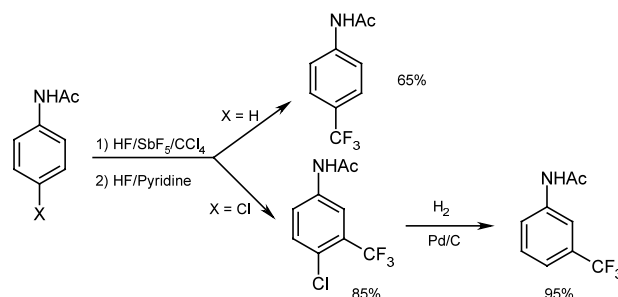


Regioselective electrophilic trifluoromethylation of substituted anilines and derivatives in superacid

Tetrahedron Letters 44 (2003) 1747

Sébastien Debarge, Bruno Violeau, Nohair Bendaoud,
Marie-Paule Jouannetaud* and Jean-Claude Jacquesy

Laboratoire 'Synthèse et Réactivité des Substances Naturelles',
UMR 6514, 40, Avenue du Recteur Pineau,
F-86022 Poitiers Cedex, France



Saturated resins or stress of the resin

Tetrahedron Letters 44 (2003) 1751

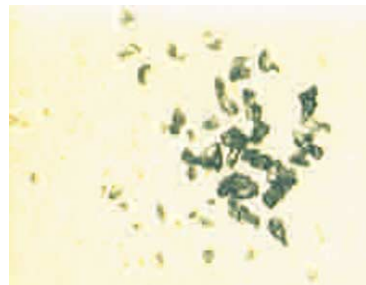
Glòria Sanclimens,^{a,b} Laia Crespo,^b Miquel Pons,^b Ernest Giralt,^{a,b}
Fernando Albericio^{a,b,*} and Miriam Royo^{b,c,*}

^aBarcelona Biomedical Research Institute, Barcelona Science Park,
University of Barcelona, Josep Samitier 1, 08028 Barcelona, Spain

^bDepartament of Organic Chemistry, University of Barcelona, 08028 Barcelona, Spain

^cCombinatorial Chemistry Unit, Barcelona Science Park, University of Barcelona,
Josep Samitier 1, 08028 Barcelona, Spain

The synthesis of polyproline-based dendrimers has provided evidence that the capacity of the bead is limited. This phenomenon, which can be interpreted as saturation or stress of the resin, can lead to a complete breakdown of the bead structure.

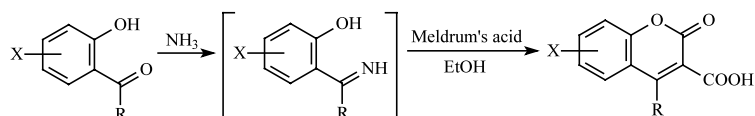


A convenient synthesis of coumarin-3-carboxylic acids via Knoevenagel condensation of Meldrum's acid with *ortho*-hydroxyaryl aldehydes or ketones

Tetrahedron Letters 44 (2003) 1755

Aimin Song, Xiaobing Wang and Kit S. Lam*

Division of Hematology and Oncology, Department of Internal Medicine, UC Davis Cancer Center,
University of California, Davis, 4501 X Street, Sacramento, CA 95817, USA



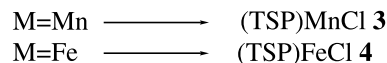
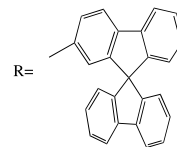
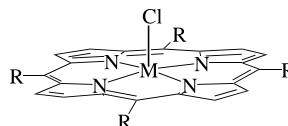
Syntheses of manganese and iron tetrspirobifluorene porphyrins as new catalysts for oxidation of alkenes by hydrogen peroxide and iodosylbenzene

Tetrahedron Letters 44 (2003) 1759

Cyril Poriol,^a Yann Ferrand,^a Paul Le Maux,^a
Joelle Rault-Berthelot^b and Gérard Simonneaux^{a,*}

^aLaboratoire de Chimie Organométallique et Biologique,
UMR CNRS 6509, Université de Rennes 1, 35042 Rennes cedex,
France

^bLaboratoire de Synthèse et Electrosynthèse Organiques,
UMR CNRS 6510, Université de Rennes 1, 35042 Rennes cedex,
France



Stereoselective synthesis of C15–C24 and C25–C30 fragments of dolabelides

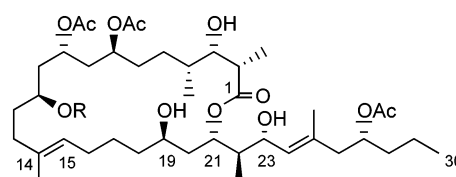
Tetrahedron Letters 44 (2003) 1763

Nicolas Desroy,^a Rémi Le Roux,^a Phannarath Phansavath,^a
Lucia Chiummiento,^b Carlo Bonini^{b,*}
and Jean-Pierre Genêt^{a,*}

^aLaboratoire de Synthèse Sélective Organique et Produits Naturels,
UMR CNRS 7573, Ecole Nationale Supérieure de Chimie de Paris,
11, rue Pierre et Marie Curie, 75231 Paris cedex 05, France

^bDipartimento di Chimica, Università degli Studi della Basilicata, Via N. Sauro 85,
85100 Potenza, Italy

The stereocontrolled synthesis of C15–C24 and C25–C30 fragments of dolabelides is reported using ruthenium-mediated asymmetric hydrogenation reactions and regioselective ring opening of chiral epoxy alcohol as key steps.



dolabelide A R = Ac
dolabelide B R = H

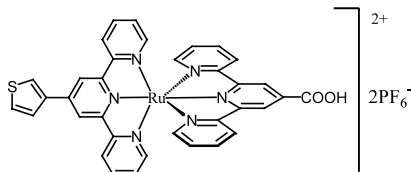
A novel pathway for the synthesis of a carboxylic acid-functionalised Ru(II) terpyridine complex

Tetrahedron Letters 44 (2003) 1767

Jérôme Husson, Marc Beley* and Gilbert Kirsch

Laboratoire d'Ingénierie Moléculaire et Biochimie Pharmacologique, Université de Metz, Ile du Saulcy, F-57045 Metz Cedex, France

A new ruthenium(II) terpyridine complex bearing a carboxylic acid function was synthesised. A route based on oxidation of a furan ring directly on the complex is described.

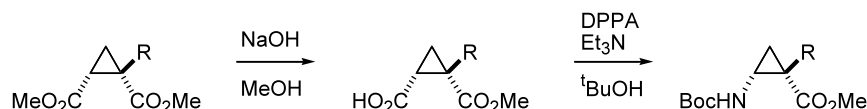


Synthesis of racemic *cis*-1-alkyl- and 1-aryl-2-aminocyclopropane-carboxylic esters

Tetrahedron Letters 44 (2003) 1771

Sven Mangelinckx and Norbert De Kimpe*

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

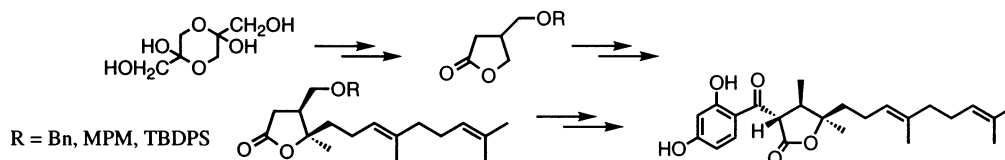


First total synthesis of a new sesquiterpenoid natural product, (\pm)-3-(2,4-dihydroxybenzoyl)-4,5-dimethyl-5-(4,8-dimethyl-3(*E*), 7(*E*)-nonadien-1-yl)tetrahydro-2-furanone

Tetrahedron Letters 44 (2003) 1775

Hidemi Yoda,* Kazuhide Maruyama and Kunihiko Takabe

Department of Molecular Science, Faculty of Engineering, Shizuoka University, Johoku 3-5-1, Hamamatsu 432-8561, Japan



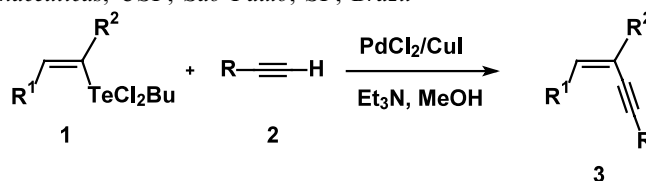
Sonogashira cross-coupling reaction of organotellurium dichlorides with terminal alkynes

Tetrahedron Letters 44 (2003) 1779

Antonio L. Braga,^{a,*} Diogo S. Lüdtkke,^a Fabrício Vargas,^a Ricardo K. Donato,^a Claudio C. Silveira,^a Hélio A. Stefani^b and Gilson Zeni^a

^a*Departamento de Química, Universidade Federal de Santa Maria, CEP-97105-900, Santa Maria, RS, Brazil*

^b*Faculdade de Ciências Farmacêuticas, USP, São Paulo, SP, Brazil*

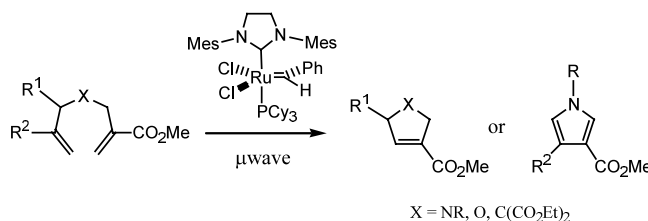


Tetrahedron Letters 44 (2003) 1783

Cangming Yang, William V. Murray and Lawrence J. Wilson*

*Johnson & Johnson Pharmaceutical Research & Development
LLC, 920 Route 202, PO Box 300, Raritan, NJ 08869, USA*

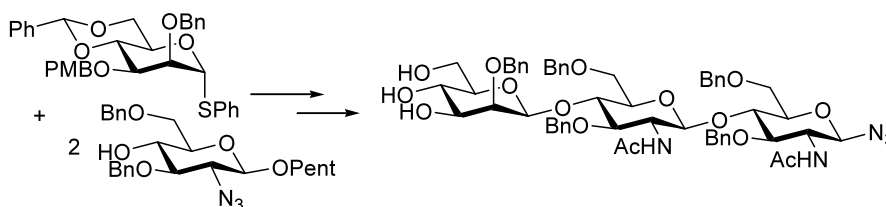
The microwave enhanced ring closing metathesis of diolefin substrates containing an external carboxymethyl substituent is presented. The reaction results in the formation of carboxymethyl substituted dehydropyrrolidines, dihydrofurans, cyclopentenones, and pyrroles. In certain cases, pyrroles are formed through further in situ oxidation.



Tetrahedron Letters 44 (2003) 1787

Vadim Y. Dudkin* and David Crich*

Department of Chemistry, University of Illinois at Chicago, 845 West Taylor St., Chicago, IL 60607, USA

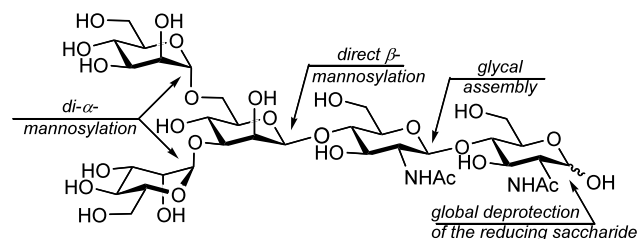


Tetrahedron Letters 44 (2003) 1791

Vadim Y. Dudkin,^{a,*} Justin S. Miller^a and Samuel J. Danishefsky^{a,b,*}

^aLaboratory for Bioorganic Chemistry, The Sloan-Kettering Institute for Cancer Research, 1275 York Avenue, New York, NY 10021, USA

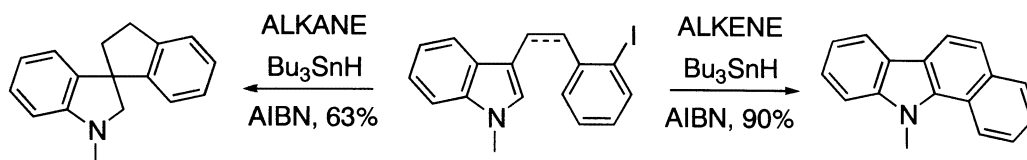
^b*Department of Chemistry, Columbia University, Havemeyer Hall, New York, NY 10027, USA*



Tetrahedron Letters 44 (2003) 1795

Stuart R. Flanagan, David C. Harrowven* and Mark Bradley

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



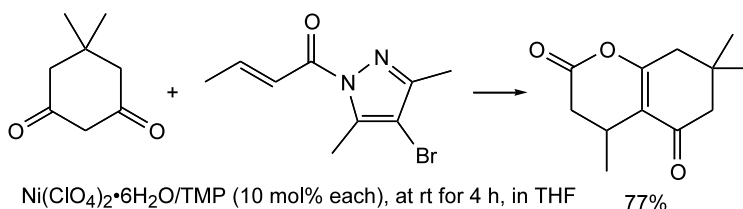
A new method for enol lactone synthesis by a Michael addition/cyclization sequence

Tetrahedron Letters 44 (2003) 1799

Kennosuke Itoh^b and Shuji Kanemasa^{a,*}

^a*Institute of Advanced Material Study, CREST of JST (Japan Science and Technology), Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan*

^b*Department of Molecular and Material Sciences, Graduate School of Engineering Sciences, Kyushu University, 6-1 Kasugakoen, Kasuga 816-8580, Japan*



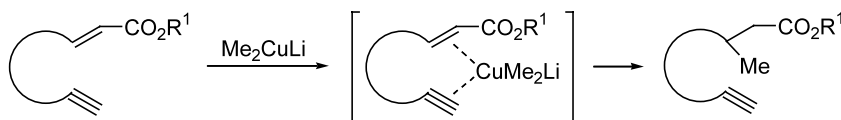
Enol lactone synthesis by Michael addition and cyclization sequence under the double catalytic activation conditions.

π - π Chelation controlled chemoselective conjugate addition of lithium dimethylcuprate

Tetrahedron Letters 44 (2003) 1803

Naoki Asao, Sunyoung Lee and Yoshinori Yamamoto*

Department of Chemistry, Graduate School of Science, Tohoku University, Sendai 980-8578, Japan



Synthesis and properties of novel thiaarenecyclines

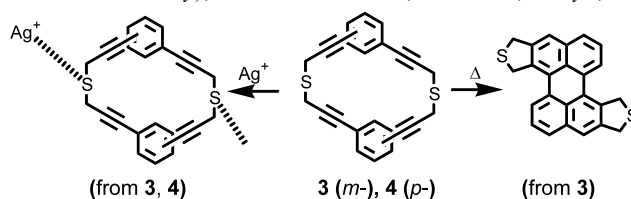
Tetrahedron Letters 44 (2003) 1807

Shigeya Kobayashi,^a Shinji Wakumoto,^a Yoshihiro Yamaguchi,^a

Tateaki Wakamiya,^a Kunihisa Sugimoto,^b Yoshio Matsubara^a and Zen-ichi Yoshida^{a,*}

^a*Faculty of Science and Engineering, Kinki University, 3-4-1 Kowakae, Higashi Osaka, 577-8502, Japan*

^b*Rigaku Corporation (X-ray Research Laboratory), 3-9-12 Matsubara, Akishima, Tokyo, 196-8666, Japan*

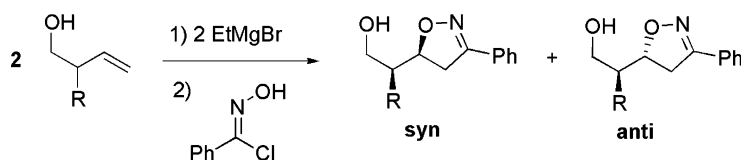


Diastereoselective cycloadditions of chiral homoallylic alcohols with benzonitrile oxide

Tetrahedron Letters 44 (2003) 1811

Martin G. Kocielek* and Chayanant Hongfa

Penn State Erie, The Behrend College, School of Science, Erie, PA 16563, USA

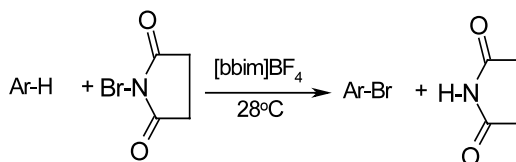


Ionic liquid promoted regioselective monobromination of aromatic substrates with *N*-bromosuccinimide

Tetrahedron Letters 44 (2003) 1815

R. Rajagopal, D. V. Jarikote, R. J. Lahoti, Thomas Daniel and K. V. Srinivasan*

Division of Organic Chemistry; Technology, National Chemical Laboratory, Dr. Homi Bhabha Road, Pune 411 008, India

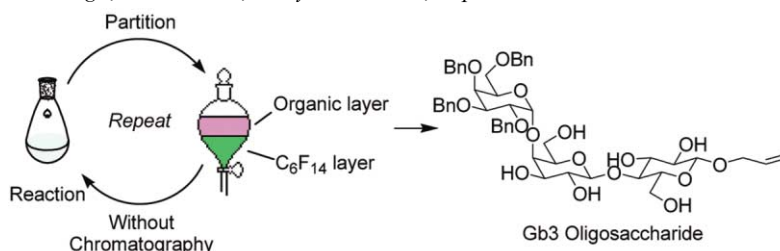


Rapid synthesis of oligosaccharide moieties of globotriaosylceramide using fluororous protective group

Tetrahedron Letters 44 (2003) 1819

Tsuyoshi Miura and Toshiyuki Inazu*

The Noguchi Institute, 1-8-1 Kaga, Itabashi-ku, Tokyo 173-0003, Japan



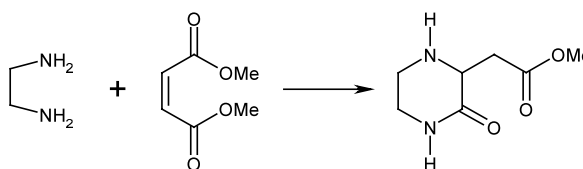
The synthesis of 2-ketopiperazine acetic acid esters and amides from ethylenediamines with maleates and maleimides

Tetrahedron Letters 44 (2003) 1823

Matthew M. Abelman,^{a,*} Karl J. Fisher,^a Edward M. Doerffler^a and Paul J. Edwards^b

^a*Signature BioScience, Inc., 1240 S. 47th St., Richmond, CA 94804, USA*

^b*Pfizer Global Research and Development, Sandwich, Kent CT13 9NJ, UK*



Diastereospecific synthesis of novel [3.6.6.4.7]-fused pentacyclic β -lactams by 6-*exo-trig*, 7-*endo-dig* tandem radical cyclization

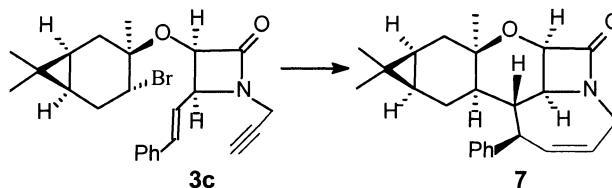
Tetrahedron Letters 44 (2003) 1827

Sudhir N. Joshi,^a U. D. Phalgune,^a B. M. Bhawal^b and A. R. A. S. Deshmukh^{a,*}

^a*Division of Organic Chemistry (Synthesis), National Chemical Laboratory, Pune 411 008, India*

^b*Emcure Pharmaceuticals Ltd., Emcure House, T-184, M.I.D.C. Bhosari, Pune 411026, India*

An efficient synthesis of pentacyclic β -lactams has been achieved via a novel 6-*exo-trig*, 7-*endo-dig* tandem radical cyclization.

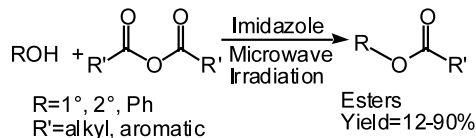


Tetrahedron Letters 44 (2003) 1831

Takuji Hirose, Benjamin G. Kopek, Zhao-Hui Wang, Ritsuko Yusa
and Bruce W. Baldwin*

Department of Chemistry, Spring Arbor University, Spring Arbor, MI 49283 USA

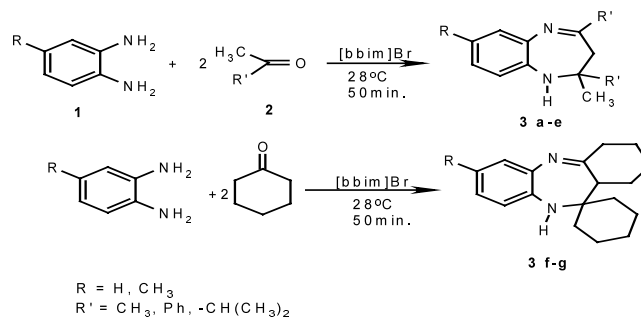
Using imidazole as promotion agent, primary, secondary and phenolic alcohol compounds were esterified with aliphatic and aromatic carboxylic acid anhydrides. Heating a ternary mixture of alcohol, anhydride and imidazole in an unmodified microwave oven produced esters in low to high yields, depending on the steric bulk of the alcohol.



Tetrahedron Letters 44 (2003) 1835

D. V. Jarikote, S. A. Siddiqui, R. Rajagopal,
Thomas Daniel, R. J. Lahoti and K. V. Srinivasan*

*Division of Organic Chemistry; Technology,
National Chemical Laboratory, Dr. Homi Bhabha Road,
Pune 411 008, India*



Tetrahedron Letters 44 (2003) 1839

Jianjun Zhang and Fanzuo Kong*

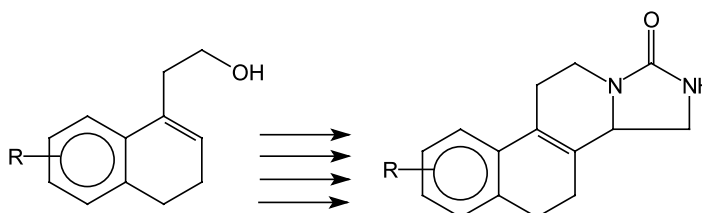
Research Center for Eco-Environmental Sciences, Academia Sinica, PO Box 2871, Beijing 100085, P.R. China



Tetrahedron Letters 44 (2003) 1843

J. A. Parihar and M. M. V. Ramana*

Department of Chemistry, University of Mumbai, Vidyanagari, Santacruz (E), Mumbai-400098, India



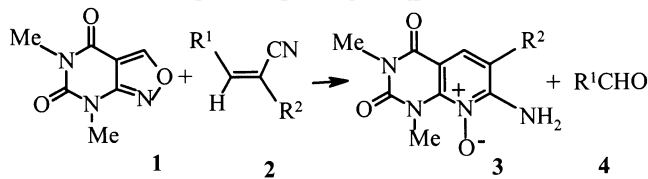
Studies on uracils: synthesis of novel pyrido[2,3-*d*]pyrimidine oxides via ring transformation of isoxazolo[3,4-*d*]pyrimidine

Tetrahedron Letters 44 (2003) 1847

P. J. Bhuyan,* H. N. Borah and R. C. Boruah

Medicinal Chemistry Division, Regional Research Laboratory, Jorhat 785006, Assam, India

The reaction of isoxazolo[3,4-*d*]pyrimidine **1** and cyanoolefins **2** in the presence of triethylamine as a catalyst afforded an unprecedented one-pot synthesis of biologically important pyrido[2,3-*d*]pyrimidine oxides **3** in excellent yields.



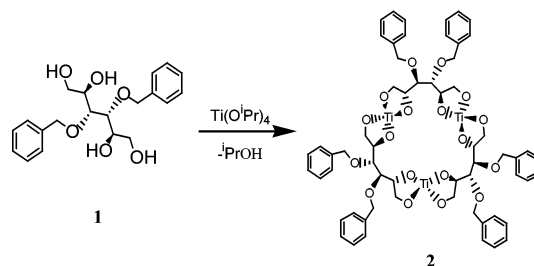
A commentary on the self assembly and properties of a chiral titanium alkoxide cyclic trimer

Tetrahedron Letters 44 (2003) 1851

Philip Hegarty, Raymond Lau and William B. Motherwell*

*University College London, Chemistry Department,
Christopher Ingold Laboratories, 20 Gordon Street, London,
WC1H 0AJ, UK*

Preselection of 3,4-di-*O*-benzyl-D-manitol **1** as a ligand for the exchange reaction with titanium tetraisopropoxide immediately precludes monomer formation. Thereafter, the chemistry of self-assembly dictates the formation of the cyclic trimer **2**.

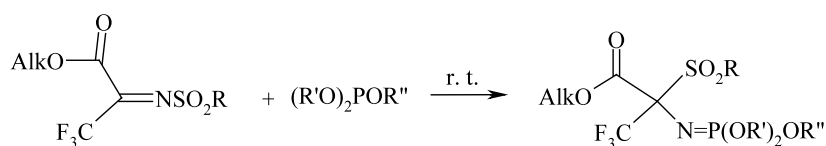


A new reaction of vicinal sulfonyliminocarboxylates with phosphites

Tetrahedron Letters 44 (2003) 1855

Petro P. Onys'ko,* Olena A. Suvalova, Yuliya V. Rassukana,
Tetyana I. Chudakova and Anatolii D. Sinitsa

Institute of Organic Chemistry, National Academy of Sciences, 5 Murmans'ka St., Kyiv 02094, Ukraine



First formal synthesis of (+)-nimbidiol. Synthesis, X-ray structure and anticancer activity of a novel ring C aromatic diterpene: dimethyl (+)-podocarpa-8,11,13-triene-12,13-dicarboxylate

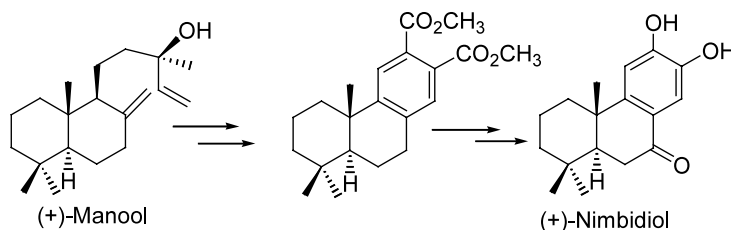
Tetrahedron Letters 44 (2003) 1859

Jorge L. Zambrano,^{a,*} Viale Rosales^b and Tatsuhiko Nakano^b

^a*Departamento de Química, Universidad Simón Bolívar,
Valle de Sartenejas, Baruta, Caracas 1080-A, Venezuela*

^b*Centro de Química, Instituto Venezolano de Investigaciones
Científicas (I.V.I.C.), Apartado 21827, Caracas 1020-A,
Venezuela*

This work provides the first formal synthesis of natural (+)-nimbidiol from (+)-manool.



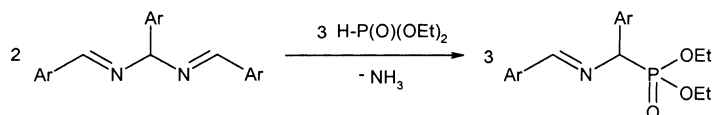
Comments on a novel synthesis of diethyl 1-aminoaryl-methylphosphonates on the surface of alumina

Tetrahedron Letters 44 (2003) 1863

Mirosław Soroka* and Krzysztof Kołodziejczyk

Politechnika Wroclawska, Instytut Chemii Organicznej, Biochemii i Biotechnologii, Wybrzeże Wyspiańskiego 27, PL-50370 Wrocław, Poland

For the preparation of 1-amino-1-arylmethylphosphonate via diethyl *N*-arylidene-1-amino-1-arylmethylphosphonate we recommend the direct reaction of hydrobenzamides with diethyl phosphite, instead of aromatic aldehydes, hexamethyldisilazane and alumina as has been described previously.



A new analytical method for anchoring quantification of amines on resin support

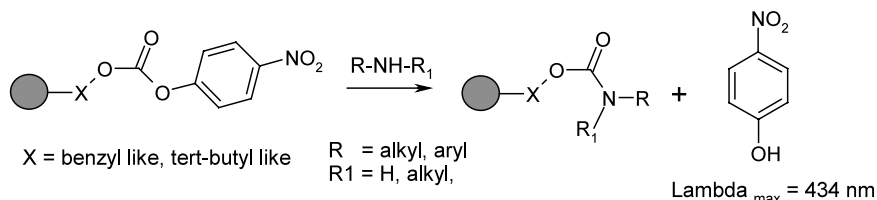
Tetrahedron Letters 44 (2003) 1867

Alfredo Paio,^{a,*} Sylvie Gehanne,^a Elena Grandini,^b Gianna Reginato^b and Pierfausto Seneci^{c,*}

^aGlaxoSmithKline Medicine Research Centre, Via A. Fleming 4, 37135 Verona, Italy

^bCNR, Via G. Capponi 9, 50121 Firenze, Italy

^cNucleotide Analog Pharma AG, Landsberger Strasse 50, 80339 Munchen, Germany



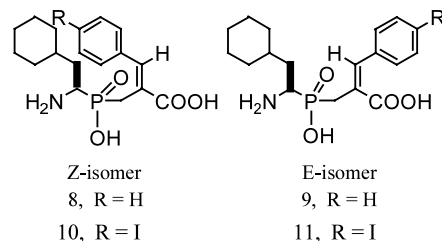
Design, synthesis and evaluation of new RDP inhibitors

Tetrahedron Letters 44 (2003) 1871

Hallur Gurulingappa, Phillip Buckhaults, Srinivas K. Kumar, Kenneth W. Kinzler, Bert Vogelstein and Saeed R. Khan*

The Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, Baltimore, MD 21231, USA

Aminophosphinic acid derivatives were synthesized as potential inhibitors of renal dipeptidase, an enzyme overexpressed in benign and malignant colon tumors. Several compounds showed potent enzyme-inhibitory activity.



Total synthesis of dehydroaltenusin

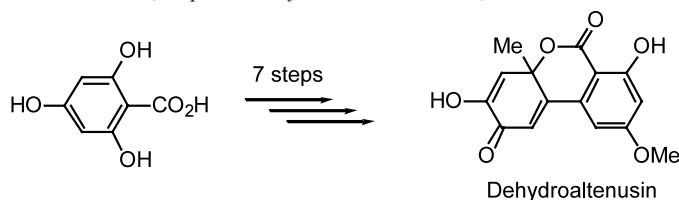
Tetrahedron Letters 44 (2003) 1875

Shunya Takahashi,^{a,*} Shinji Kamisuki,^b Yoshiyuki Mizushina,^c Kengo Sakaguchi,^b Fumio Sugawara^b and Tadashi Nakata^a

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

^bDepartment of Applied Biological Science, Tokyo University of Science, Noda, Chiba 278-8510, Japan

^cLaboratory of Food and Nutritional Sciences, Department of Nutritional Science, Kobe-Gakuin University, Nishi-ku, Kobe, Hyogo 651-2180, Japan

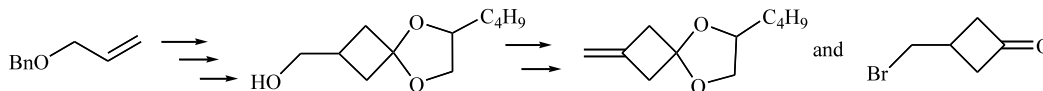


An efficient route to 3-substituted cyclobutanone derivatives

Tetrahedron Letters 44 (2003) 1879

George W. Kabalka* and Min-Liang Yao

Departments of Chemistry and Radiology, The University of Tennessee, Knoxville, TN 37996-1600, USA

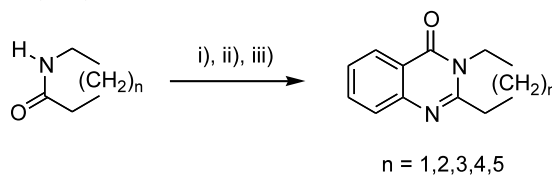


A facile synthesis of simple alkaloids—synthesis of 2,3-polymethylene-4(3H)-quinazolinones and related alkaloids

Tetrahedron Letters 44 (2003) 1883

Eung Seok Lee, Jae-Gyu Park and Yurngdong Jahng*

College of Pharmacy, Yeungnam University, Kyongsan 712-749, South Korea



i) HCl, ii) POCl₃, iii) methyl anthranilate

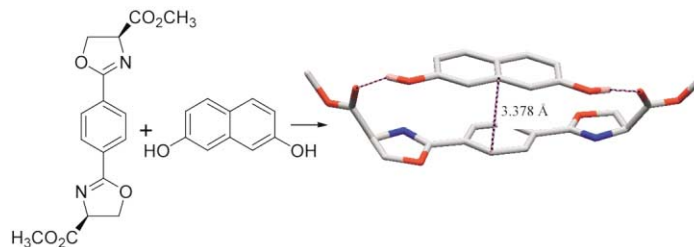
Recognition of dihydroxynaphthalenes by a C₂-symmetric host

Tetrahedron Letters 44 (2003) 1887

Hae-Jo Kim,^a Dohyun Moon,^b Myoung Soo Lah^b and Jong-In Hong^{a,*}

^a*School of Chemistry, College of Natural Sciences, Seoul National University, Seoul 151-747, South Korea*

^b*Department of Chemistry, College of Science, Hanyang University, Ansan, Kyunggi-Do 425-791, South Korea*

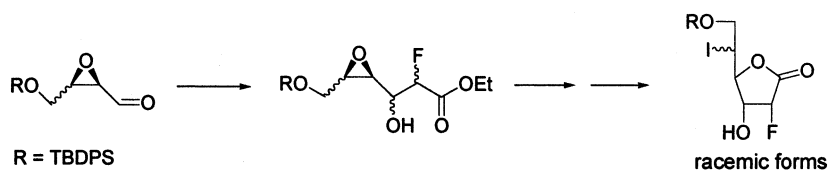


Addition of lithium ethyl fluoroacetate to *cis* and *trans* α,β -epoxyaldehydes. Access to C₂ fluorinated butyrolactones

Tetrahedron Letters 44 (2003) 1891

Magalie Collet, Michel Baltas,* Alexandre Martinez, Cécile Dehoux-Baudoin and Liliane Gorrichon

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



Fluxional sulfonyl derivatives of troponoids and colchicinoids

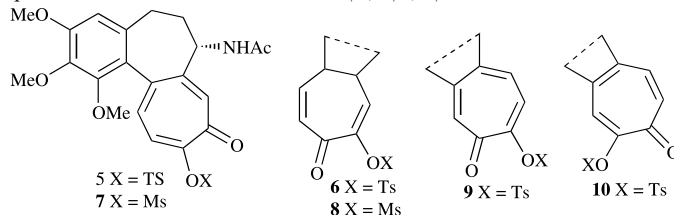
Tetrahedron Letters 44 (2003) 1895

Marino Cavazza^{a,*} and Francesco Pietra^b

^aDipartimento di Chimica e Chimica Industriale, Università di Pisa, via Risorgimento 35, I-56100 Pisa, Italy

^bVia della Fratta 9, I-55100, Lucca, Italy

The sulfonyl derivatives of troponoids and colchicinoids such as **5/6**, **7/8**, **9/10** are involved in fluxional processes easily detectable at high enough temperatures.



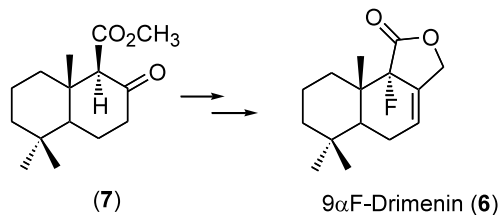
Synthesis of fluorinated drimanes. Preparation of 9 α F-drimenin

Tetrahedron Letters 44 (2003) 1899

Antonio Abad,^{*} Consuelo Agulló, Ana C. Cuñat and David Pardo

Departamento de Química Orgánica, Universitat de Valencia, Dr. Moliner 50, 46100 Burjassot (Valencia), Spain

A stereoselective synthesis of the 9 α -fluorinated analogue of natural drimane sesquiterpene drimenin (**6**) from decalone (**7**) is described.



Structural elucidation of the red dye obtained from reaction of 1,8-naphthalenediol with 1,1-diphenylprop-2-yn-1-ol. A correction

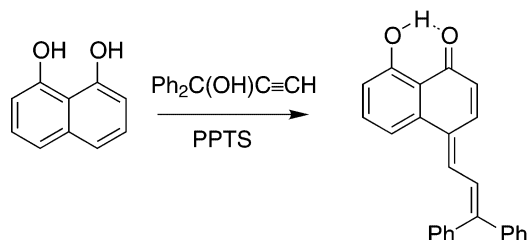
Tetrahedron Letters 44 (2003) 1903

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

^aDept. Química, Universidade de Trás-os-Montes e Alto Douro, 5001-911 Vila Real, Portugal

^bDept. Química, Universidade de Aveiro, 3810-193 Aveiro, Portugal

^cCentro de Química, IBQF, Universidade do Minho, 4700-320 Braga, Portugal

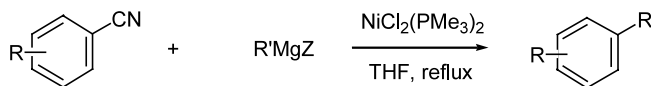


Nickel catalyzed cross-coupling of modified alkyl and alkenyl Grignard reagents with aryl- and heteroaryl nitriles: activation of the C–CN bond

Tetrahedron Letters 44 (2003) 1907

Joseph A. Miller and John W. Dankwardt^{*}

DSM Pharmaceuticals, 5900 NW Greenville Blvd, Greenville, NC 27834, USA



Synthesis of a chlorothalonil peptide conjugate mimicking protein-bound pesticide residues

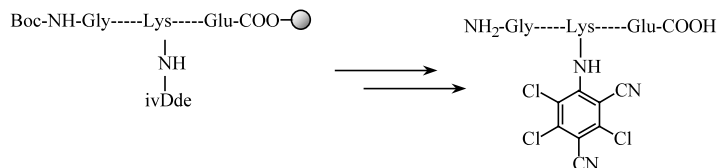
Tetrahedron Letters 44 (2003) 1911

Holger Hrenn,^a Wolfgang Schwack,^{a,*} Werner Seilmeier^b and Herbert Wieser^b

^a*Institut für Lebensmittelchemie (170), Universität Hohenheim, Garbenstrasse 28, D-70593 Stuttgart, Germany*

^b*Deutsche Forschungsanstalt für Lebensmittelchemie, Lichtenbergstrasse 4, D-85748 Garching, Germany*

An efficient strategy for the synthesis of defined structures of pesticide peptide conjugates is described. These conjugates are necessary for various investigations.



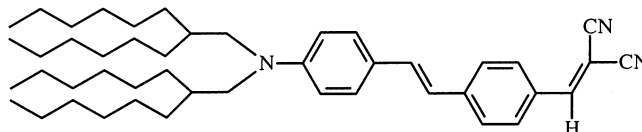
The effect of 2,2-dicyanovinyl groups as electron acceptors in push-pull substituted oligo(1,4-phenylenevinylene)s

Tetrahedron Letters 44 (2003) 1915

Herbert Meier,^{a,*} Jürgen Gerold^a and Dominic Jacob^b

^a*Institute of Organic Chemistry, University of Mainz, Duesbergweg 10-14, 55099 Mainz, Germany*

^b*Nirmala College, Muvattupuzha, India*



Uncommon intramolecular palladium-catalyzed cyclization of indole derivatives

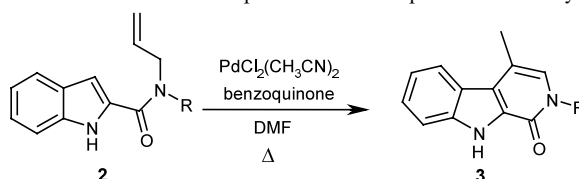
Tetrahedron Letters 44 (2003) 1919

Egle M. Beccalli^{a,*} and Gianluigi Brogini^b

^a*Istituto di Chimica Organica, Università degli Studi di Milano, via Venezian 21, 20133 Milano, Italy*

^b*Dipartimento di Scienze Chimiche, Fisiche e Matematiche dell'Università dell'Insubria, via Lucini 3, 22100 Como, Italy*

A novel synthetic strategy based on the intramolecular palladium-catalyzed oxidative cyclization reaction, allows the formation of C-C bond and the synthesis of β -carbolineones. The reaction has been performed in the presence of catalytic amount of $\text{PdCl}_2(\text{CH}_3\text{CN})_2$ and benzoquinone as a reoxidant.

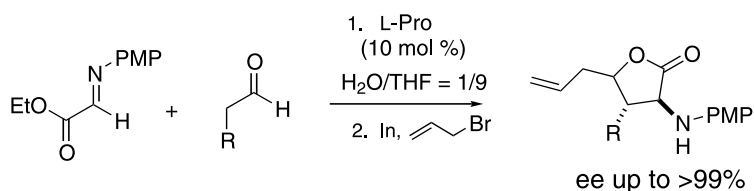


Direct organocatalytic asymmetric Mannich-type reactions in aqueous media: one-pot Mannich-allylation reactions

Tetrahedron Letters 44 (2003) 1923

Armando Córdova and Carlos F. Barbas, III^{*}

Skaggs Institute for Chemical Biology and Department of Molecular Biology, Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037, USA

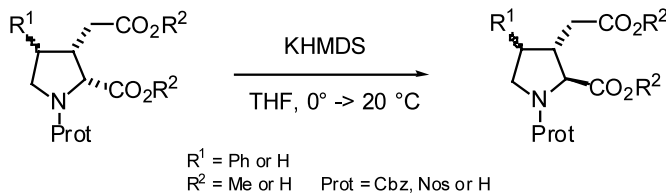


On the C-2 epimerisation of kainoids

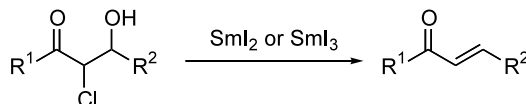
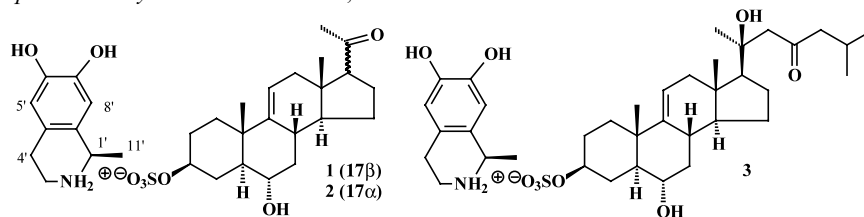
Philippe Klotz* and André Mann

Laboratoire de Pharmacochimie de la Communication Cellulaire, UMR 7081, Faculté de Pharmacie, 74 route du Rhin, BP 24, F-67401 Illkirch, France

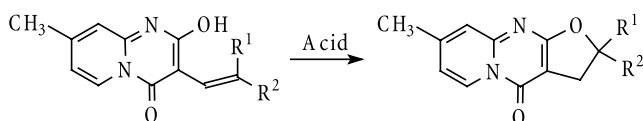
New mild conditions for the epimerisation at carbon C-2 of kainoids were found. Mechanistic aspects are discussed.

**Synthesis of (*E*)- α,β -unsaturated ketones with total or high diastereoselectivity by using samarium diiodide or triiodide**

José M. Concellón* and Mónica Huerta

Departamento de Química Orgánica e Inorgánica, Facultad de Química, Universidad de Oviedo, Julián Clavería, 8, 33071 Oviedo, Spain**Alkaloidosteroids from the starfish *Lethasterias nanimensis chelifera***Alla A. Kicha, Natalia V. Ivanchina, Anatoly I. Kalinovsky,
Pavel S. Dmitrenok and Valentin A. Stonik**Pacific Institute of Bioorganic Chemistry, Far-Eastern Branch of the Russian Academy of Sciences, Vladivostok-22, Prospect 100-letya Vladivostoka 159, Russia***Cyclisation of 3-alkenylpyrido[1,2-*a*]pyrimidines to furo[2,3-*d*]pyrido[1,2-*a*]pyrimidines**

Mustafa Güllü,* Sibel Uzun and Serkan Yalçın

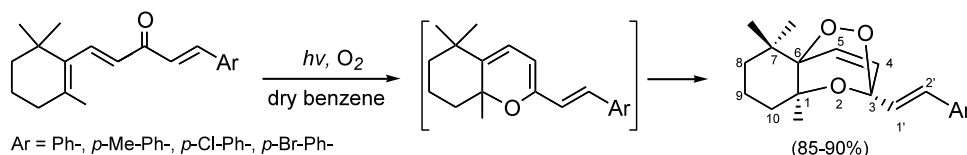
*Department of Chemistry, Faculty of Science, Ankara University, 06100, Tandoğan, Ankara, Turkey*3-Alkenylpyrido[1,2-*a*]pyrimidines react under mild conditions, in the presence of a strong acid, to give novel tricyclic furo[2,3-*d*]pyrido[1,2-*a*] pyrimidines in high yields.

UV irradiation of arylidene- β -ionones in the presence of dioxygen: regioselective formation of stable endoperoxides

Tetrahedron Letters 44 (2003) 1943

Rajinder Singh and M. P. S. Ishar*

Department of Pharmaceutical Sciences, Guru Nanak Dev University, Amritsar-143 005, Punjab, India



MCC/S_NAr methodology. Part 2: Novel three-step solution phase access to libraries of benzodiazepines

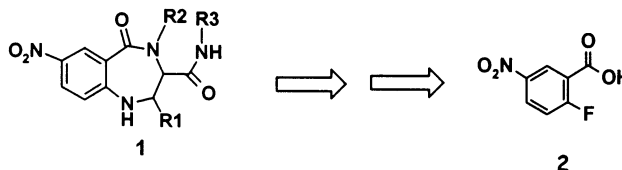
Tetrahedron Letters 44 (2003) 1947

Paul Tempest,^b Liping Pettus,^a Vijay Gore^a and Christopher Hulme^{a,*}

^aDepartment of Small Molecule Drug Discovery, AMGEN, One AMGEN Center Drive, Thousand Oaks, CA 91320, USA

^bDepartment of Small Molecule Drug Discovery, AMGEN, Cambridge Research Center, Cambridge, MA, USA

This letter reveals the novel solution-phase syntheses of arrays of biologically relevant benzodiazepines **1**, via multi-component condensation (MCC)/S_NAr methodology.

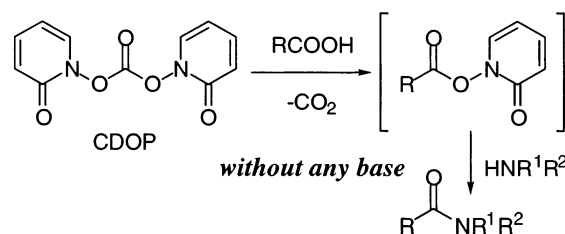


A new method for the synthesis of carboxamides and peptides using 1,1'-carbonyldioxydi[2(1*H*)-pyridone] (CDOP) in the absence of basic promoters

Tetrahedron Letters 44 (2003) 1951

Isamu Shiina* and Yo-ichi Kawakita

Department of Applied Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan

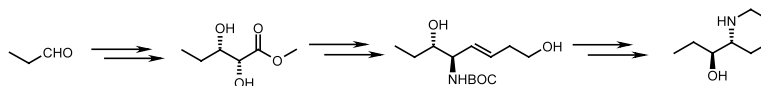


Enantioselective synthesis of (–)- α -conhydrine via cyclic sulfate methodology

Tetrahedron Letters 44 (2003) 1957

SubbaRao V. Kandula and Pradeep Kumar*

Division of Organic Chemistry: Technology, National Chemical Laboratory, Pune 411008, India



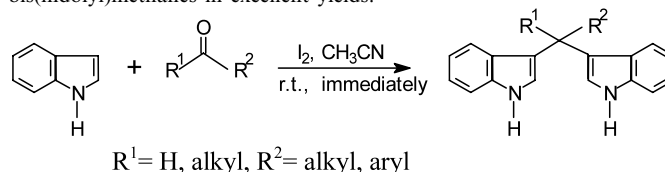
Molecular iodine-catalyzed efficient and highly rapid synthesis of bis(indolyl)methanes under mild conditions

Tetrahedron Letters 44 (2003) 1959

B. P. Bandgar* and K. A. Shaikh

Organic Chemistry Research Laboratory, School of Chemical Sciences, Swami Ramanand Teerth Marathwada University, Vishnupuri, Nanded 431606, India

Highly rapid and efficient electrophilic substitution reactions of indoles with various aldehydes and ketones were carried out using I₂ in CH₃CN to afford the corresponding bis(indolyl)methanes in excellent yields.



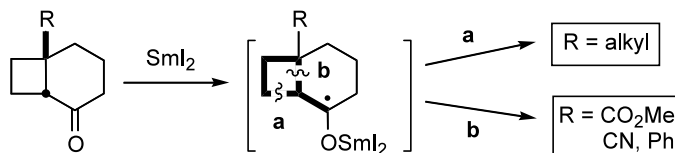
Regioselective radical ring-opening reaction of bicyclo[4.2.0]octan-2-ones promoted by samarium(II) iodide

Tetrahedron Letters 44 (2003) 1963

Kiyomi Kakiuchi,^{a,*} Koichi Minato,^b Ken Tsutsumi,^a Tsumoru Morimoto^a and Hideo Kurosawa^b

^a*Graduate School of Materials Science, Nara Institute of Science and Technology (NAIST), Takayama, Ikoma, Nara 630-0101, Japan*

^b*Department of Applied Chemistry, Faculty of Engineering, Osaka University, Suita, Osaka 565-0871, Japan*



Preparation and photophysical properties of halogenated silicon(IV) phthalocyanines substituted axially with poly(ethylene glycol) chains

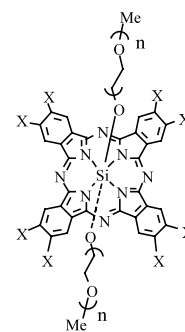
Tetrahedron Letters 44 (2003) 1967

Pui-Chi Lo,^a Shuangqing Wang,^a Andre Zeug,^b Matthias Meyer,^b Beate Röder^b and Dennis K. P. Ng^{a,*}

^a*Department of Chemistry, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong, China*

^b*Institut für Physik, Humboldt-Universität Berlin, Invalidenstraße 110, 10115 Berlin, Germany*

Incorporation of heavy halogen substituents onto the periphery of silicon(IV) phthalocyanines promotes intersystem crossing and enhances the singlet oxygen quantum yield of the macrocycles, making them desirable candidates for photodynamic therapy.



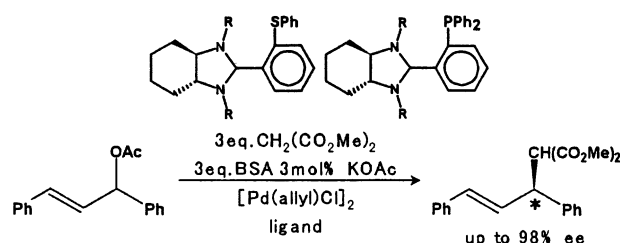
New enantioselective chiral imidazolidine ligands for Pd-catalyzed asymmetric allylic alkylation

Tetrahedron Letters 44 (2003) 1971

En-Kyung Lee, Sang-Han Kim, B.-H. Jung, Wha-Seung Ahn and Geon-Joong Kim*

Department of Chemical Engineering, Inha University, Incheon 402-751, South Korea

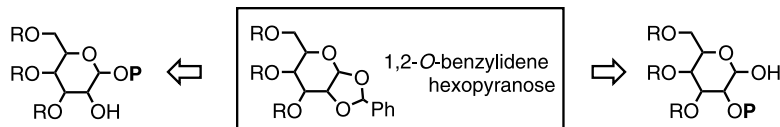
New chiral imidazolidine act as effective ligands in palladium-catalyzed asymmetric allylic alkylation.



Regioselectivity in the reductive ring-opening reaction of 1,2-*O*-benzylidene sugars

Katsuhiko Suzuki, Hisato Nonaka and Masanori Yamaura*

Department of Environmental Science, Faculty of Science and Engineering, Iwaki Meisei University, 5-5-1 Iino, Chuohdai, Iwaki-shi, Fukushima 970-8551, Japan



Selective reduction of alkynes catalyzed by palladium acetate with sodium methoxide as the hydride source

Li-Lan Wei,^{a,b} Li-Mei Wei,^{a,b} Wen-Bin Pan,^{a,b} Shio-Piaw Leou^a and Ming-Jung Wu^{a,*}

^aSchool of Chemistry, Kaohsiung Medical University, Kaohsiung, Taiwan

^bFooyin University, Kaohsiung county, Taiwan

Treatment of internal alkynes (0.5 mmol) with sodium methoxide (5 equiv.) in the presence of Pd(OAc)₂ (5 mol%) and PPh₃ (5 mol%) in methanol for 48 h gave the reduction products, alkenes or alkanes in good chemical yields.

