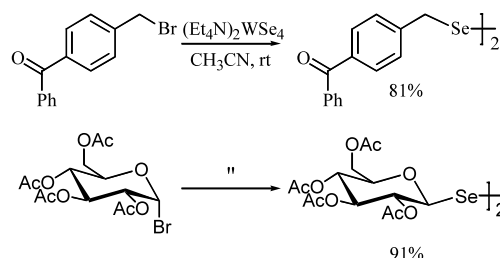
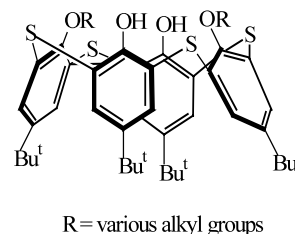


Tetraethylammonium tetraselenotungstate: a new and efficient selenium transfer reagent for the chemoselective synthesis of functionalised diselenides*Tetrahedron Letters 44 (2003) 2257*

Vadivelu Saravanan, Emmanuel Porhiel and Srinivasan Chandrasekaran*

Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India**An expedient route to *p*-*tert*-butylthiacalix[4]arene 1,3-diethers via Mitsunobu reactions***Tetrahedron Letters 44 (2003) 2261*

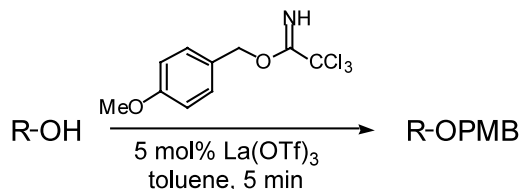
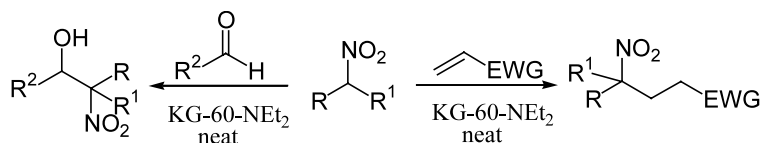
István Bitter* and Viktor Csokai

*Department of Organic Chemical Technology, Budapest University of Technology and Economics, H-1521 Budapest, Hungary**p*-*tert*-Butylthiacalix[4]arene is selectively alkylated using alcohols under the Mitsunobu protocol.**An efficient method for *para*-methoxybenzyl ether formation with lanthanum triflate***Tetrahedron Letters 44 (2003) 2267*

Anand Narain Rai and Amit Basu*

Department of Chemistry, Brown University, Providence, RI 02912, USA

PMB ethers of alcohols are prepared in high yields and short reaction times using the trichloroacetimidate of PMB alcohol and lanthanum triflate. The mild conditions allow protection of acid-sensitive alcohols.

**Use of heterogeneous catalyst KG-60-NEt₂ in Michael and Henry reactions involving nitroalkanes***Tetrahedron Letters 44 (2003) 2271*Roberto Ballini,^{a,*} Giovanna Bosica,^a Damiana Livi,^a Alessandro Palmieri,^a Raimondo Maggi^{b,*} and Giovanni Sartori^b^aDipartimento di Scienze Chimiche dell'Università, Via S. Agostino 1, 62032 Camerino, MC, Italy^bDipartimento di Chimica Organica e Industriale dell'Università, Parco Area delle Scienze 17A, 43100 Parma, Italy

Synthesis of novel aza analogues of 2-substituted-2,3-dihydro-1,4-benzodioxins as potential new scaffolds for drug discovery

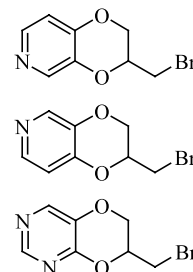
Tetrahedron Letters 44 (2003) 2275

Encarna Matesanz,^{a,*} Jesús Alcázar,^a J. Ignacio Andrés,^a Jose M. Bartolomé,^a Marcel De Bruyn,^b Javier Fernández^a and Kristof Van Emelen^b

^aJohnson & Johnson Pharmaceutical Research & Development, a Division of Janssen-Cilag S.A., Medicinal Chemistry Department, Jarama s/n, 45007 Toledo, Spain

^bJohnson & Johnson Pharmaceutical Research & Development, a Division of Janssen Pharmaceutica N.V., Medicinal Chemistry Department, Turnhoutseweg 30, B-2340 Beerse, Belgium

Synthesis approaches that have led to three novel functionalizable aza analogues of 2-substituted-2,3-dihydro-1,4-benzodioxin system are described.



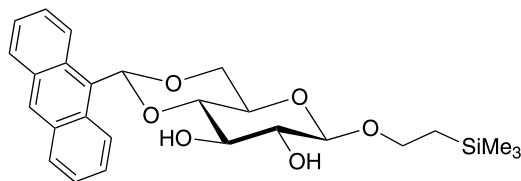
9-Anthraldehyde acetals as protecting groups

Tetrahedron Letters 44 (2003) 2279

Ulf Ellervik*

Organic and Bioorganic Chemistry, Center for Chemistry and Chemical Engineering, Lund University, PO Box 124, SE-221 00 Lund, Sweden

Anthraldehyde acetals can be introduced regioselectively to carbohydrates in high yields. Advantages over conventional acetal protecting groups are increased crystallinity and strong absorbance and fluorescence which facilitate purification and reaction monitoring. The anthraldehyde acetals can be deprotected selectively in the presence of benzylidene acetals and can be cleaved regioselectively to yield 6-*O*-(9-anthracenyl)methyl ethers.



Diastereoselective Pd/In bimetallic inter-intramolecular (class 2) cascade reactions of allenyl-imines and aryl iodides

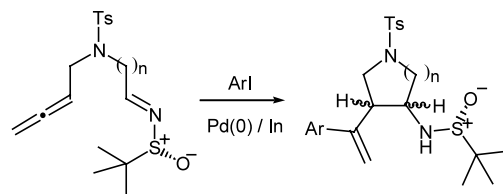
Tetrahedron Letters 44 (2003) 2283

Ian R. Cooper,^a Ronald Grigg,^{a,*} Michael J. Hardie,^a William S. MacLachlan,^b Visuvanathar Sridharan^a and W. Anthony Thomas^a

^aMolecular Innovation, Diversity and Automated Synthesis (MIDAS) Centre, School of Chemistry, University of Leeds, Leeds LS2 9JT, UK

^bGlaxoSmithKline, New Frontiers Science Park (North), Third Avenue, Harlow, Essex CM19 5AW, UK

A new diastereoselective Pd/In bimetallic cascade reaction employing allenyl-sulfinimines and aryl iodides resulting in the formation of complex chiral pyrrolidines and piperidines is described. Diastereoselectivities up to 91:9 have been obtained.



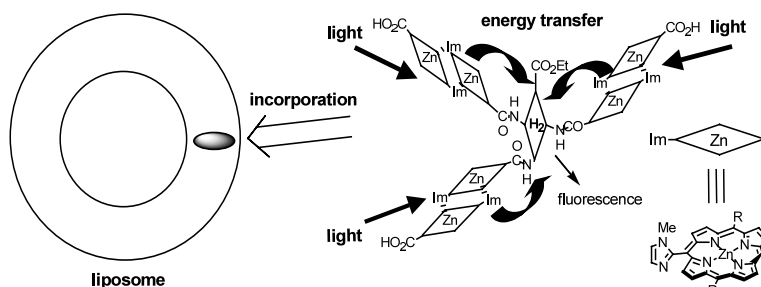
Incorporation of a photosynthetic supramolecular complex by using imidazolyl Zn porphyrin dimers in bilayer lipid membrane

Tetrahedron Letters 44 (2003) 2287

Hidekane Ozeki^a and Yoshiaki Kobuke^{a,b,*}

^aGraduate School of Materials Science, Nara Institute of Science and Technology, 8916-5 Takayama, Ikoma, Nara 630-0101, Japan

^bCREST, Japan Science and Technology Corporation (JST), Japan

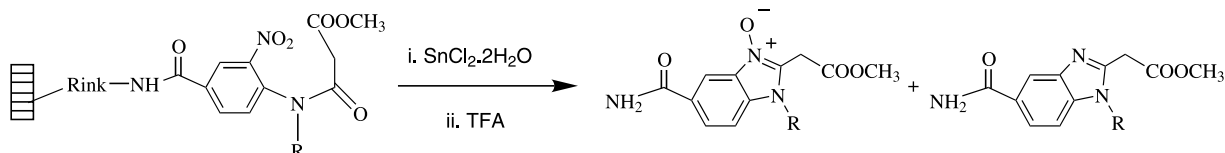


Solid-phase synthesis of benzimidazole *N*-oxides on SynPhase™ Lanterns

Tetrahedron Letters 44 (2003) 2293

Zemin Wu,* Nicholas J. Ede and Marc N. Mathieu

Mimotopes Pty Ltd, 11 Duerdin Street, Clayton, VIC 3168, Australia



Catalytic hydrogenation of vinylogous peptides: a route towards γ -peptide foldamers

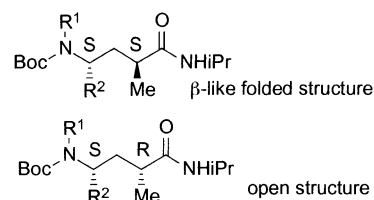
Tetrahedron Letters 44 (2003) 2297

Claude Grison,^{a,*} Stéphane Genève,^a Stéphanie Claudel,^a Philippe Coutrot^a and Michel Marraud^b

^aLaboratoire de Chimie Organique Biomoléculaire, Institut Nancéien de Chimie Moléculaire, FR CNRS 1742, UMR 7565, Université Henri Poincaré, Nancy 1, BP 239, 54506

Vandoeuvre cédex, France

^bLaboratoire de Chimie Physique Macromoléculaire, UMR 7568, ENSIC-INPL, BP 451, 54001 Nancy, France



Catalytic hydrogenation over Pd/C of vinylogous aminoacids and aminoamides has been studied. The configuration of the ethylenic bond has an important effect on the diastereoselectivity. The higher selectivity is observed with the *E*-vinylogous aminoamides. The conformational preferences of the α,γ -disubstituted γ -peptides have been determined. The 2*S*,4*S*- γ -peptide moiety induces a β -like folded structure stabilized by an intramolecular hydrogen bond, whereas the 2*S*,4*R*-diastereomer assumes an open structure.

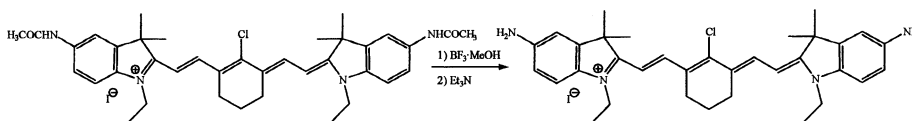
Boron trifluoride–methanol complex—mild and powerful reagent for deprotection of labile acetylated amines

Tetrahedron Letters 44 (2003) 2301

Serguei Miltsov, Laia Rivera, Cristina Encinas and Julián Alonso*

Grup de Sensors i Biosensors, Unitat de Química Analítica, Facultat de Ciències, Universitat Autònoma de Barcelona, 08193, Bellaterra, Spain

The deprotection of acetylated amines of cyanine-type dyes with boron trifluoride–methanol complex is presented.



First synthesis of 1,9-dideoxyforskolin from ptychantin A

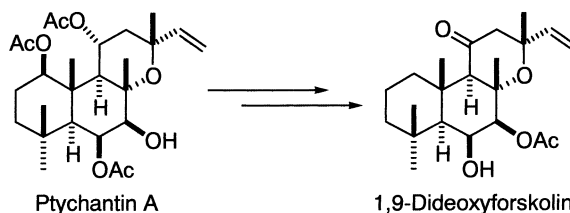
Tetrahedron Letters 44 (2003) 2305

Hisahiro Hagiwara,^{a,*} Fumihide Takeuchi,^a Takashi Hoshi,^b Toshio Suzuki,^b Toshihiro Hashimoto^c and Yoshinori Asakawa^c

^aGraduate School of Science and Technology, Niigata University, 8050, 2-nocho, Ikarashi, Niigata 950-2181, Japan

^bFaculty of Engineering, Niigata University, 8050, 2-nocho, Ikarashi, Niigata 950-2181, Japan

^cFaculty of Pharmaceutical Sciences, Tokushima Bunri University, Yamashiro-cho, Tokushima 770-8514, Japan

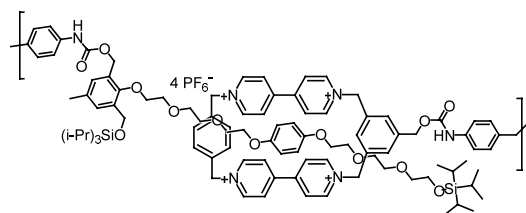


Synthesis of a mechanically linked oligo[2]rotaxane

Abdelhak Belaisaoui, Satoru Shimada, Akihiro Ohishi and Nobuyuki Tamaoki*

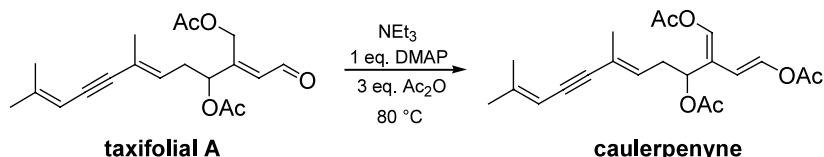
Institute for Materials and Chemical Process, National Institute of Advanced Industrial Science and Technology, Central 5, 1-1-1 Higashi, Tsukuba, Ibaraki 305-8565, Japan

A bifunctional [2]rotaxane, bearing two free functional groups each in the ring and axial parts, was synthesized, followed by its polycondensation with methylene diphenyl diisocyanate leading to a mechanically linked oligo[2]rotaxane.

**On the construction of 2-substituted 1,4-diacetoxybutadiene moiety: application to the synthesis of (±)-caulerpenyne**

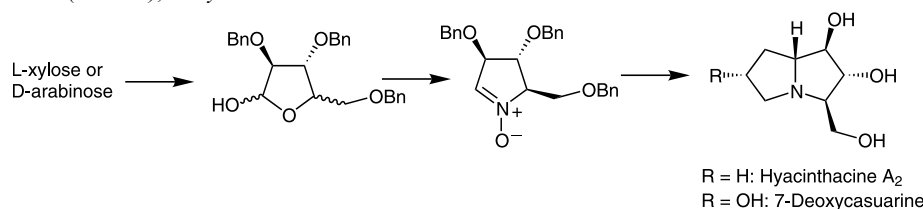
Laurent Commeiras, Maurice Santelli and Jean-Luc Parrain*

Laboratoire de Synthèse Organique associé au CNRS (UMR 6009), Faculté des Sciences de Saint Jérôme, Avenue Escadrille Normandie-Niemen, 13397 Marseille Cedex 20, France

**Total syntheses of hyacinthacine A₂ and 7-deoxycasuarine by cycloaddition to a carbohydrate derived nitrone**

Francesca Cardona, Enrico Faggi, Francesca Liguori, Martina Cacciarini and Andrea Goti*

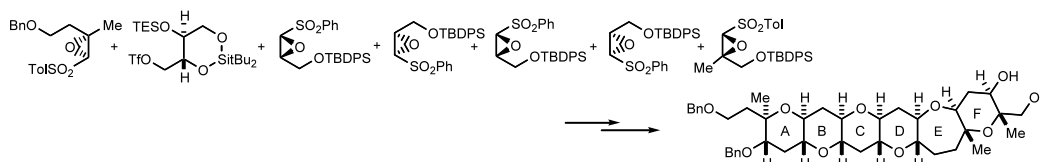
Dipartimento di Chimica Organica 'Ugo Schiff', Polo Scientifico, Università di Firenze, via della Lastruccia 13, I-50019 Sesto Fiorentino (Firenze), Italy

**Iterative synthesis of the ABCDEF-ring system of yessotoxin and adriatoxin**

Yuji Mori,^{a,*} Toyohisa Takase^a and Ryoji Noyori^b

^a*Faculty of Pharmacy, Meijo University, 150 Yagotoyama, Tempaku-ku, Nagoya 468-8503, Japan*

^b*Department of Chemistry, Graduate School of Science, Nagoya University, Chikusa-ku, Nagoya 464-8602, Japan*

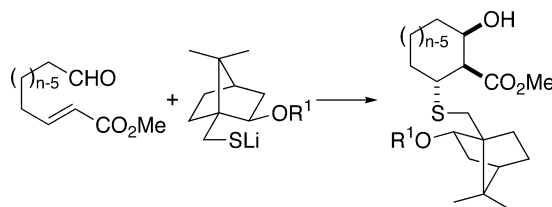


Asymmetric Michael–aldol tandem cyclization of ω -oxo- α , β -unsaturated esters with 10-mercaptoisoborneol methyl ether

Tetrahedron Letters 44 (2003) 2323

Katsumi Nishimura, Hiroshi Tsubouchi, Masashi Ono, Tomoharu Hayama, Yasuo Nagaoka and Kiyoshi Tomioka*

Graduate School of Pharmaceutical Sciences, Kyoto University, Yoshida, Sakyo-ku, Kyoto 606-8501, Japan



Parviflorene A, a novel cytotoxic unsymmetrical sesquiterpene–dimer constituent from *Curcuma parviflora*

Tetrahedron Letters 44 (2003) 2327

Masae Takahashi,^a Takashi Koyano,^b Thaworn Kowithayakorn,^c Masahiko Hayashi,^d Kanki Komiyama^d and Masami Ishibashi^{a,*}

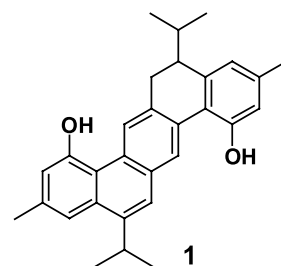
^a*Graduate School of Pharmaceutical Sciences, Chiba University, 1-33 Yayoi-cho, Inage-ku, Chiba 263-8522, Japan*

^b*Temko Corporation, 4-27-4 Honcho, Nakano, Tokyo 164-0012, Japan*

^c*Department of Horticulture, Faculty of Agriculture, Khon Kaen University, Khon Kaen 40002, Thailand*

^d*The Kitasato Institute, 5-9-1 Shirokane, Minato-ku, Tokyo 108-8642, Japan*

A novel cytotoxic sesquiterpene–dimer-type compound, parviflorene A (**1**), was isolated from a tropical Zingiberaceae plant, *Curcuma parviflora*.



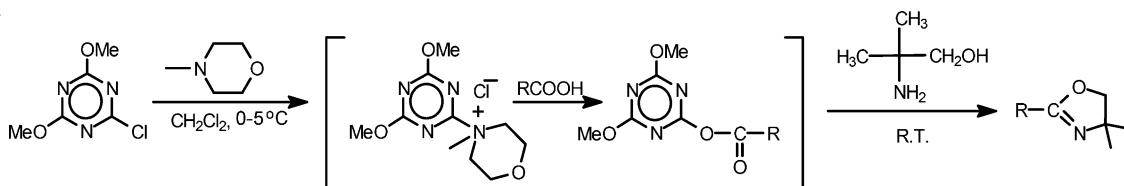
Direct synthesis of 2-oxazolines from carboxylic acids using 2-chloro-4,6-dimethoxy-1,3,5-triazine under mild conditions

Tetrahedron Letters 44 (2003) 2331

B. P. Bandgar* and S. S. Pandit

Organic Chemistry Research Laboratory, School of Chemical Sciences, Swami Ramanand Teerth Marathwada University, Vishnupuri, Nanded 431 606, India

2-Acyloxy-4,6-dimethoxy-1,3,5-triazines obtained from carboxylic acids and 2-chloro-4,6-dimethoxy-1,3,5-triazine were subsequently treated with 2-amino-2-methyl-1-propanol to afford the corresponding 2-oxazolines in excellent yield at room temperature.



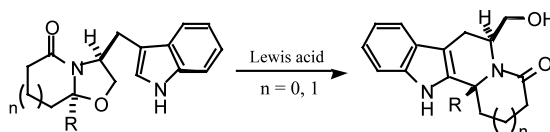
Stereoselective synthesis of the indolizinoindole ring system

Tetrahedron Letters 44 (2003) 2335

Steven M. Allin,^{a,*} Christopher I. Thomas,^a James E. Allard,^a Matthew Duncton,^b Mark R. J. Elsegood^a and Mark Edgar^a

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

^b*OSI Pharmaceuticals, Watlington Road, Oxford OX4 6LT, UK*



An efficient approach towards the stereospecific synthesis of epoxides from phospholene oxides

Tetrahedron Letters 44 (2003) 2339

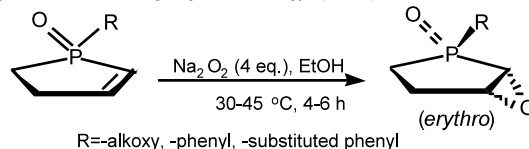
Mitsuji Yamashita,^{a,*} Valluru Krishna Reddy,^b Lakonda Nagaprasada Rao,^b Buchammagari Haritha,^c Motoki Maeda,^c Keiji Suzuki,^c Hirono Totsuka,^c Masaki Takahashi^a and Tatsuo Oshikawa^d

^aDepartment of Materials Chemistry, Faculty of Engineering, Shizuoka University, Hamamatsu 432-8561, Japan

^bSatellite Venture Business Laboratory, Shizuoka University, Hamamatsu 432-8561, Japan

^cGraduate School of Science and Engineering, Shizuoka University, Hamamatsu 432-8561, Japan

^dDepartment of Chemistry and Biochemistry, Numazu College of Technology (NCT), Numazu 410-8501, Japan

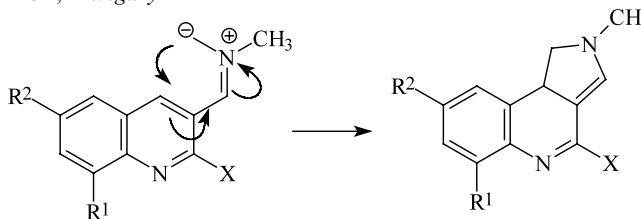


Synthesis of pyrrolo[3,4-c]quinolines by 1,5-electrocyclisation of non-stabilised azomethine ylides

Tetrahedron Letters 44 (2003) 2343

Áron Pintér, Miklós Nyerges,^{*} Andrea Virányi and László Tóke^{*}

Research Group of the Hungarian Academy of Sciences, Department of Organic Chemical Technology, Technical University of Budapest, H-1521 Budapest POB 91, Hungary



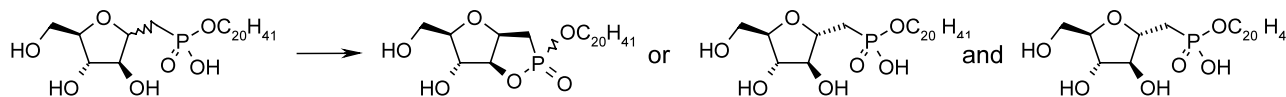
Synthesis of sugar-derived phostones by activation of γ -hydroxyphosphonic acids

Tetrahedron Letters 44 (2003) 2347

Michaël Bosco, Philippe Bissereet and Jacques Eustache^{*}

Laboratoire de Chimie Organique et Bioorganique associé au CNRS, Université de Haute-Alsace, Ecole Nationale Supérieure de Chimie de Mulhouse 3, rue Alfred Werner, F-68093 Mulhouse Cedex, France

A facile conversion of sugar-derived γ -hydroxyphosphonic acid into phostones is described. The method could also be used for the preparation of pure α - and β -1-deoxy-1-phosphonomethylarabinose.



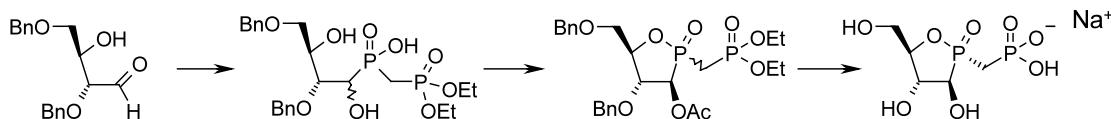
Cyclic phosphonomethylphosphinates: a new type of phosphorus-containing sugars

Tetrahedron Letters 44 (2003) 2351

Philippe Bissereet,^{*} Jean-Guy Boiteau and Jacques Eustache^{*}

Laboratoire de Chimie Organique et Bioorganique associé au CNRS, Université de Haute-Alsace, Ecole Nationale Supérieure de Chimie de Mulhouse 3, rue Alfred Werner, F-68093 Mulhouse Cedex, France

Condensation of a *H*-phosphinylphosphonate on a hydroxyaldehyde derived from D-arabinal was the key step in a synthesis of the first sugar-derived cyclic phosphonomethylphosphinates.

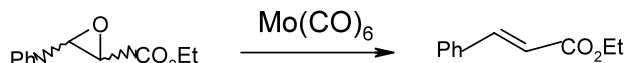


Mo(CO)₆-promoted facile deoxygenation of α,β -epoxy ketones and α,β -epoxy esters

Tetrahedron Letters 44 (2003) 2355

Asit Patra, Mausumi Bandyopadhyay and Dipakranjan Mal*

Department of Chemistry, Indian Institute of Technology, Kharagpur 721 302, India



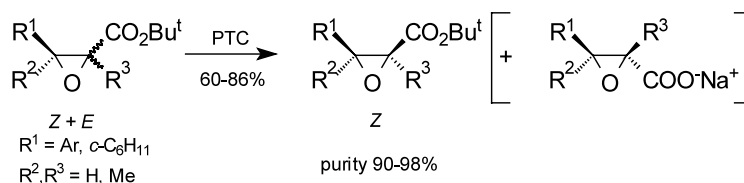
10 examples

Convenient synthesis of *t*-butyl *Z*-3-substituted glycidates under conditions of phase-transfer catalysis

Tetrahedron Letters 44 (2003) 2359

Andrzej Jonczyk* and Tomasz Zomerfeld

Warsaw University of Technology, Faculty of Chemistry, Koszykowa 75, 00-662 Warsaw, Poland



Novel *N*-chlorinated derivatives of 2*H*-1-benzopyran-2-imines

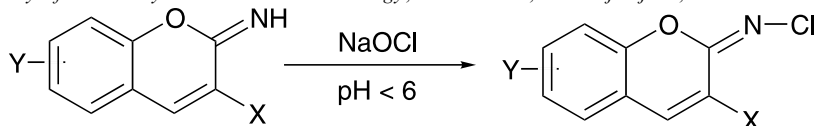
Tetrahedron Letters 44 (2003) 2363

Julija Volmajer,^a Renata Toplak,^a Shmuel Bittner,^b Ivan Leban^c and Alenka Majcen Le Marechal^{a,*}

^a*University of Maribor, Faculty of Mechanical Engineering, Smetanova 17, 2000 Maribor, Slovenia*

^b*Ben-Gurion University of the Negev, Department of Chemistry, Beer-Sheva 84105, Israel*

^c*University of Ljubljana, Faculty of Chemistry and Chemical Technology, Aškerčeva 5, 1000 Ljubljana, Slovenia*



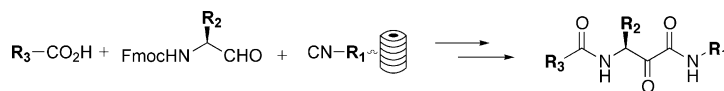
X = CN, COOEt
Y = 6-OH, 8-OH, H

Solid-phase synthesis of modified oligopeptides via Passerini multicomponent reaction

Tetrahedron Letters 44 (2003) 2367

Andrea Basso, Luca Banfi, Renata Riva, Paolo Piaggio and Giuseppe Guanti*

Università degli Studi di Genova, Dipartimento di Chimica e Chimica Industriale, via Dodecaneso 31, 16146 Genova, Italy

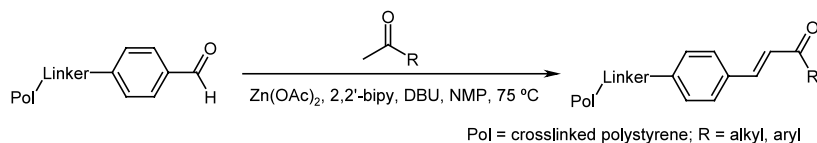


Solid-phase aldol condensations mediated by zinc acetate and 2,2'-bipyridine under weakly basic conditions

Tetrahedron Letters 44 (2003) 2371

Ulrich Sensfuss*

Novo Nordisk A/S, Novo Nordisk Park, 2760 Maaloev, Denmark

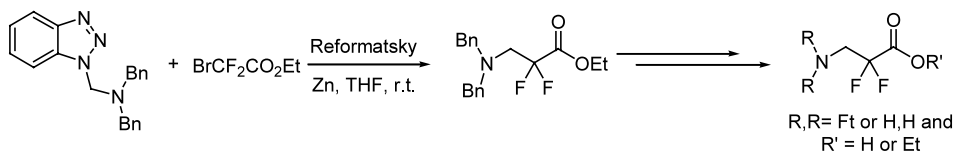


A practical synthesis of 2,2-difluoro-3-amino-propanoic acid (α,α -difluoro- β -alanine)

Tetrahedron Letters 44 (2003) 2375

Arnaud Cheguillaume, Simon Lacroix and Jacqueline Marchand-Brynaert*

Université catholique de Louvain, Unité de Chimie Organique et Médicinale, Bâtiment Lavoisier, place Louis Pasteur 1, B-1348 Louvain-La-Neuve, Belgium

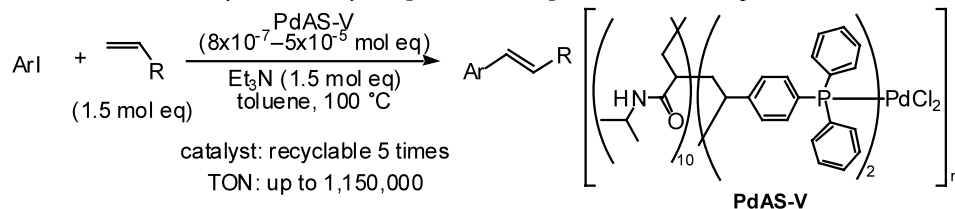


An efficient heterogeneous Heck reaction promoted by a new assembled catalyst of palladium and non-cross-linked amphiphilic polymer

Tetrahedron Letters 44 (2003) 2379

Yoichi M. A. Yamada, Koji Takeda, Hideyo Takahashi and Shiro Ikegami*

Faculty of Pharmaceutical Sciences, Teikyo University, Sagami, Kanagawa 199-0195, Japan

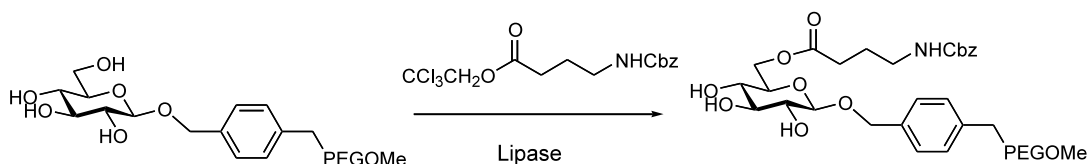


Chemoenzymatic polymer-supported liquid phase synthesis of glucose γ -aminobutyric ester

Tetrahedron Letters 44 (2003) 2383

Carmen de Torres and Alfonso Fernández-Mayoralas*

Instituto de Química Orgánica General, CSIC, Juan de la Cierva 3, 28006 Madrid, Spain



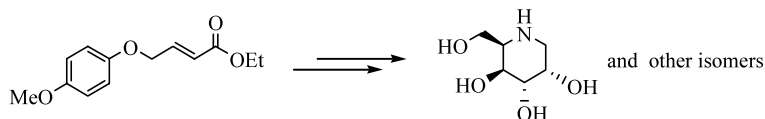
A general methodology for the asymmetric synthesis of 1-deoxyiminosugars

Tetrahedron Letters 44 (2003) 2387

Om V. Singh and Hyunsoo Han*

Department of Chemistry, The University of Texas at San Antonio, 6900 N. Loop 1604 West, San Antonio, TX 78249, USA

1-Deoxyiminosugars were synthesized from the readily available achiral olefin via regioselective aminohydroxylation, ring-closing metathesis, and dihydroxylation reactions in a highly stereoselective manner.

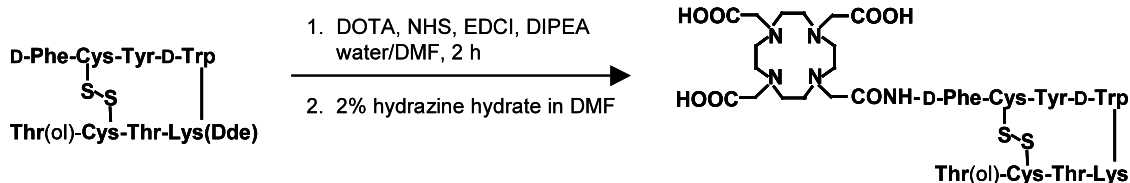


Rapid and high-yield solution-phase synthesis of DOTA-Tyr³-octreotide and DOTA-Tyr³-octreotate using unprotected DOTA

Tetrahedron Letters 44 (2003) 2393

Margret Schottelius,* Markus Schwaiger and Hans-Jürgen Wester

Nuklearmedizinische Klinik und Poliklinik, Klinikum rechts der Isar, Technische Universität München, Ismaninger Strasse 22, D-81675 München, Germany

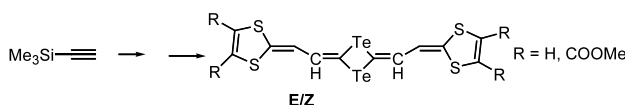


Synthesis and transformations of some new 2,4-bismethylene-1,3-ditelluretanes

Tetrahedron Letters 44 (2003) 2397

Desikan Rajagopal, M. V. Lakshmikantham, Michael P. Cava,* Grant A. Broker and Robin D. Rogers

Chemistry Department, University of Alabama, PO Box 87-0336, Tuscaloosa, AL 35487-0336, USA



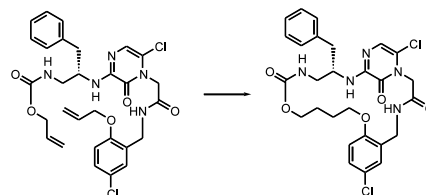
Potent thrombin inhibitors via a 20-membered ring olefin metathesis macrocyclization

Tetrahedron Letters 44 (2003) 2401

Philippe G. Nantermet* and Harold G. Selnick

Merck Research Laboratories, PO Box 4, West Point, PA 19486, USA

Twenty-membered ring pyrazinone derived macrocycles were prepared as a means to enhance the potency of existing thrombin inhibitors. Macrocyclization was accomplished via Grubbs olefin metathesis of a highly functionalized allyl-alloc scaffold, thus further confirming the power of such methodology.



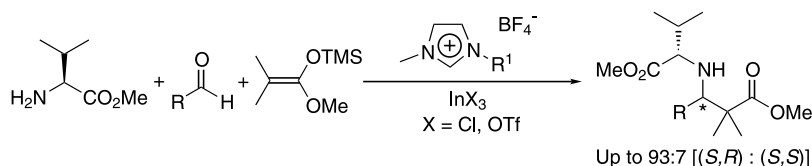
Asymmetric Mannich-type reactions catalyzed by indium(III) complexes in ionic liquids

Tetrahedron Letters 44 (2003) 2405

Shui-Ling Chen,^a Shun-Jun Ji^{b,*} and Teck-Peng Loh^{a,b,*}

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^bCollege of Chemistry and Chemical Engineering, Soochow University, Jiangsu 215006, China



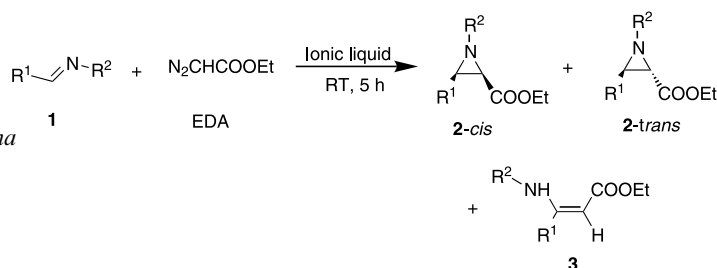
Synthesis of aziridines from imines and ethyl diazoacetate in room temperature ionic liquids

Tetrahedron Letters 44 (2003) 2409

Wei Sun, Chun-Gu Xia* and Hong-Wang Wang

State Key Laboratory for Oxo Synthesis and Selective Oxidation, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou 730000, PR China

The synthesis of aziridines from imines and ethyl diazoacetate in room temperature ionic liquids is reported. The reactions proceed readily under mild conditions with high *cis* selectivities and high yields.



New enantiopure cyclic β -iminophosphine ligands: applications in Pd-catalyzed asymmetric allylic substitution

Tetrahedron Letters 44 (2003) 2413

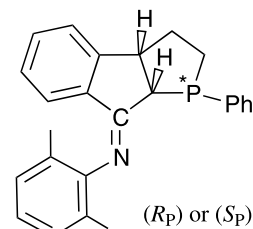
Maria Zablocka,^{a,*} Marek Koprowski,^a Bruno Donnadieu,^b Jean-Pierre Majoral,^{b,*} Mathieu Achard^c and Gérard Buono^{c,*}

^aCentre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Sienkiewicza 112, 90-363 Lodz, Poland

^bLaboratoire de Chimie de Coordination, 205 route de Narbonne, 31077 Toulouse Cedex 4, France

^cENSSPICAM, CNRS, UMR 6516, Faculté St Jérôme, Av. Escadrille Normandie-Niemen, 13397 Marseille cedex 20, France

New enantiopure cyclic β -iminophosphines are prepared and the catalytic properties of the corresponding Pd(0) complexes in asymmetric allylic alkylation and amination are reported.

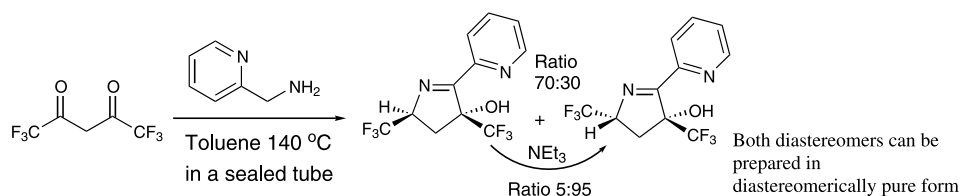


Simple and highly diastereoselective synthesis of trifluoromethyl-containing myosmines via reaction between 2-(aminomethyl)pyridine and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione

Tetrahedron Letters 44 (2003) 2417

Hironari Ohkura, Dmitrii O. Berbasov and Vadim A. Soloshonok*

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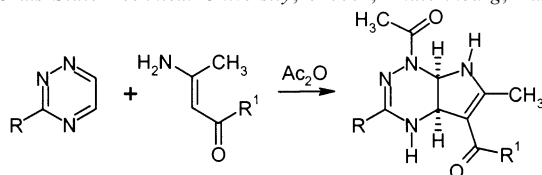
Aminovinyl ketones and aminovinyl esters as C–C–N building blocks for the synthesis of 1*H*-pyrrolo[3,2-*e*]1,2,4-triazines

Tetrahedron Letters 44 (2003) 2421

Valery N. Charushin,^{a,*} Nataliya N. Mochulskaya,^b Anatoly A. Andreiko,^a Vera I. Filyakova,^a Mikhail I. Kodess^a and Oleg N. Chupakhin^a

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The isolation and use of a benzodiazepine iminochloride for the efficient construction of flumazenil

Tetrahedron Letters 44 (2003) 2425

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