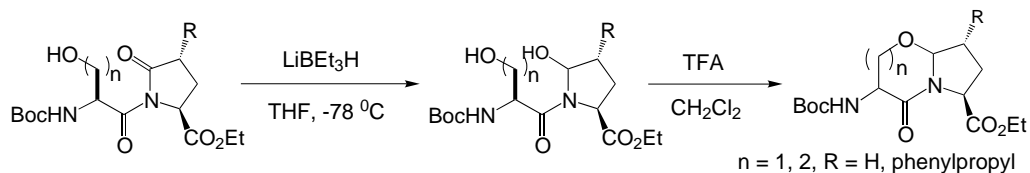
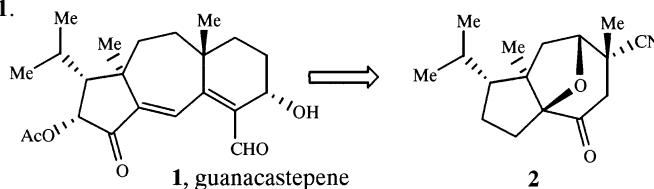


A convenient and versatile synthesis of 6,5- and 7,5-fused bicyclic lactams as peptidomimetics*Tetrahedron Letters 42 (2001) 4943*

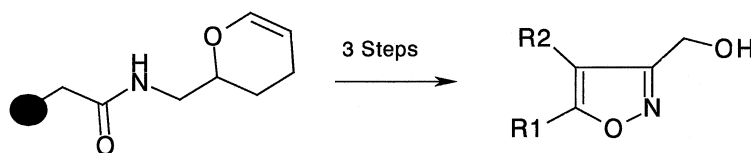
Xiaojun Zhang,* Wen Jiang and Aaron C. Schmitt

Chemical & Physical Sciences, DuPont Pharmaceuticals Company, Experimental Station, PO Box 80500, Wilmington, DE 19880, USA**Stereoselective synthesis of the bicyclo[5.3.0]decane portion of the diterpene antibiotic guanacastepene using a pyrylium-ylide [5+2] cycloaddition reaction***Tetrahedron Letters 42 (2001) 4947*

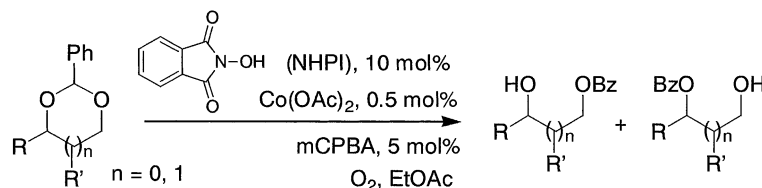
Philip Magnus,* Michael J. Waring, Cyril Ollivier and Vince Lynch

*Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, TX 78712, USA*The stereoselective synthesis of **2** is described, which embodies the structural and stereochemical features of the top-half of the antibiotic guanacastepene **1**.**Solid-phase synthesis of 3-hydroxymethyl isoxazoles via resin bound nitrile oxides***Tetrahedron Letters 42 (2001) 4951*

Enzo Cereda,* Antoine Ezhaya, Monica Quai and Walter Barbaglia

Chemistry Research Centre, Boehringer Ingelheim Italia, Via Lorenzini 8, 20139 Milan, Italy**Facile oxidative cleavage of benzylidene acetals using molecular oxygen catalyzed by *N*-hydroxyphthalimide/ $\text{Co}(\text{OAc})_2$** *Tetrahedron Letters 42 (2001) 4955*

Yongsheng Chen and Peng George Wang*

Department of Chemistry, Wayne State University, Detroit, MI 48202, USA

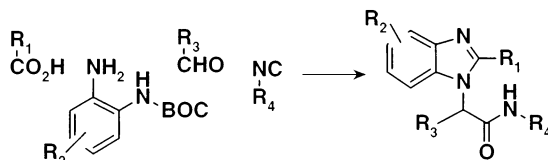
Two-step solution-phase synthesis of novel benzimidazoles utilizing a UDC (Ugi/de-Boc/cyclize) strategy

Tetrahedron Letters 42 (2001) 4959

Paul Tempest,* Vu Ma, Samuel Thomas, Zheng Hua, Michael G. Kelly and Christopher Hulme*

Department of Combinatorial Chemistry, AMGEN Inc., One AMGEN Center Drive, Thousand Oaks, CA 91320, USA

This letter reveals a two-step solution-phase synthesis to benzimidazoles containing four points of diversity.



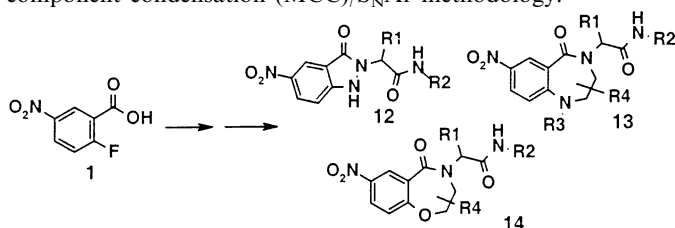
MCC/S_NAr methodology. Part 1: Novel access to a range of heterocyclic cores

Tetrahedron Letters 42 (2001) 4963

Paul Tempest,* Vu Ma, Michael G. Kelly, Wyeth Jones and Christopher Hulme*

Department of Combinatorial Chemistry, AMGEN Inc., One AMGEN Center Drive, Thousand Oaks, CA 91320, USA

This letter reveals the novel solution-phase syntheses of arrays of biologically relevant indazolinones, benzazepines and benzoxazepines, via multi-component condensation (MCC)/S_NAr methodology.



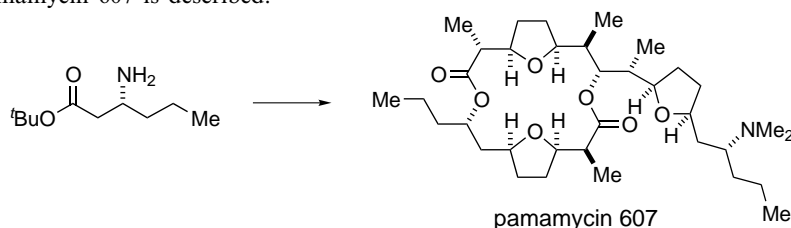
Total synthesis of pamamycin 607: applications of remote asymmetric induction in organic synthesis

Tetrahedron Letters 42 (2001) 4969

Olivier Germay, Naresh Kumar and Eric J. Thomas*

The Department of Chemistry, The University of Manchester, Manchester M13 9PL, UK

A total synthesis of pamamycin 607 is described.

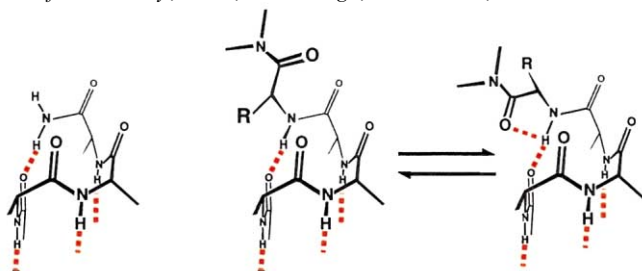


C-terminal helix capping propensities in a polyaniline context for amino acids bearing nonpolar aliphatic side chains

Tetrahedron Letters 42 (2001) 4975

Wolfgang Maisson, Robert J. Kennedy, Justin S. Miller and Daniel S. Kemp*

Room 18-582, Department of Chemistry, MIT, Cambridge, MA 02139, USA

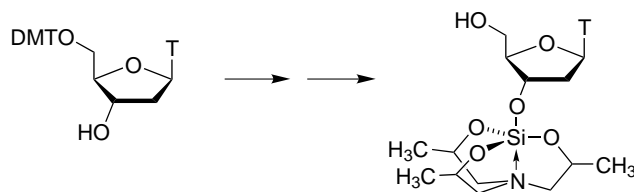


Silatranyl-nucleosides: transition state analogues for phosphoryl transfer reactions

Tetrahedron Letters 42 (2001) 4979

Bianca R. Sculimbrenne, Raymond E. Decanio, Brandon W. Peterson, Emily E. Muntel and Edward E. Fenlon*

Xavier University, Chemistry Department, 3800 Victory Parkway, Cincinnati, OH 45207-4221, USA



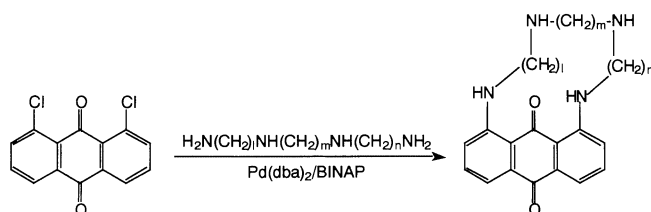
Synthesis of new tetraazamacrocycles by Pd-catalyzed amination of 1,8-dichloroanthracene and 1,8-dichloroanthra-9,10-quinone

Tetrahedron Letters 42 (2001) 4983

Irina P. Beletskaya,^{a,*} Alexei D. Averin,^b Alla G. Bessmertnykh^b and Roger Guillard^{b,*}

^aDepartment of Chemistry, Lomonosov Moscow State University, Leninskie Gory, Moscow 119899, Russia

^bLIMSAG (UMR 5633), Faculté des Sciences 'Gabriel', 6, Bd. Gabriel, 21100 Dijon, France



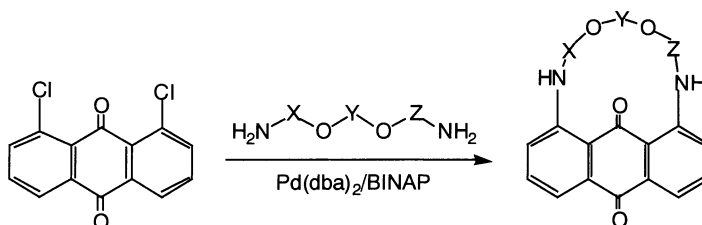
Synthesis of diazacrown ethers based on anthracene and anthraquinone by Pd-catalyzed amination reactions

Tetrahedron Letters 42 (2001) 4987

Irina P. Beletskaya,^{a,*} Alexei D. Averin,^b Alla G. Bessmertnykh^b and Roger Guillard^{b,*}

^aDepartment of Chemistry, Lomonosov Moscow State University, Leninskie Gory, Moscow 119899, Russia

^bLIMSAG (UMR 5633), Faculté des Sciences 'Gabriel', 6, Bd. Gabriel, 21100 Dijon, France



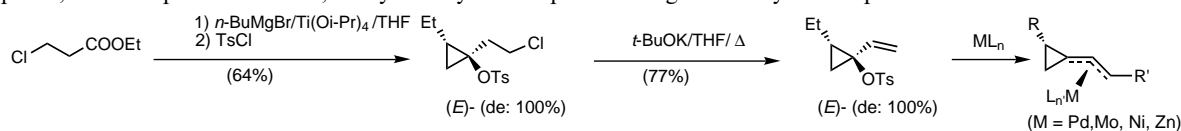
Titanium-mediated diastereoselective formation of (E)-2-alkyl-1-ethenylcyclopropanols from β -haloesters

Tetrahedron Letters 42 (2001) 4991

Isabelle Sylvestre, Jean Ollivier and Jacques Salaün*

Laboratoire des Carbocycles, UMR 8615, Institut de Chimie Moléculaire d'Orsay Bât. 420, Université de Paris-Sud, 91405 Orsay, France

The titanium(IV)-mediated cyclopropanation of ethyl β -chloropropionate by Grignard reagents and in situ tosylation, followed by base-induced dehydrochlorination provided diastereoselectivity pure (E)-2-alkyl-1-ethenyl-1-(tosyloxy)cyclopropanes, suitable precursors of 1,1-ethyleneallylmetal species of significant synthetic potential.

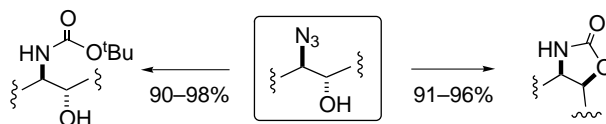


From vicinal azido alcohols to Boc-amino alcohols or oxazolidinones, with trimethylphosphine and Boc₂O or CO₂

Tetrahedron Letters 42 (2001) 4995

Xavier Ariza, Oriol Pineda, Fèlix Urpí and Jaume Vilarrasa*

Departament de Química Orgànica, Facultat de Química, Universitat de Barcelona, 08028 Barcelona, Catalonia, Spain



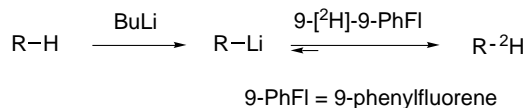
9-Phenylfluorene: a powerful labeling agent

Tetrahedron Letters 42 (2001) 5001

Jean-Christophe Cintrat,* Florence Pillon and Bernard Rousseau

CEA/Saclay, Service des Molécules Marquées, bât. 547, Département de Biologie Cellulaire et Moléculaire, 91191 Gif sur Yvette, cedex, France

A highly efficient method for labeling with deuterium is described using an acidic hydrocarbon as transfer agent. Using 9-[²H]-9-phenylfluorene as the deuterium donor, numerous organic compounds have been labeled.

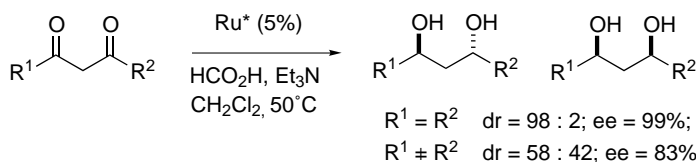


Ruthenium-catalyzed asymmetric reduction of 1,3-diketones using transfer hydrogenation

Tetrahedron Letters 42 (2001) 5005

Janine Cossy,* Florence Eustache and Peter I. Dalko

Laboratoire de Chimie Organique associé au CNRS, ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France



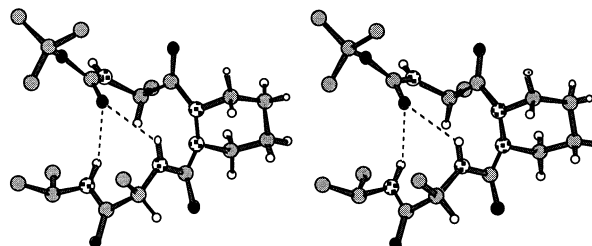
Synthesis and conformational preferences in solution and crystalline states of an aza-tripeptide

Tetrahedron Letters 42 (2001) 5009

Christine Hemmerlin, Manh Thong Cung and Guy Boussard*

Laboratoire de Chimie Physique Macromoléculaire, UMR CNRS-INPL 7568, ENSIC, BP 451, 54001 Nancy, France

In crystalline state, the βVI-like folded Boc-Ala-AzPip-Ala-NHiPr (AzPip: 2-aza piperolic residue) is stabilized by two type 1+3→i and 1+4→i intramolecular hydrogen bonds. The diazaheterocycle adopts a quasi chair conformation and an axial disposition of the 2-N amide function.

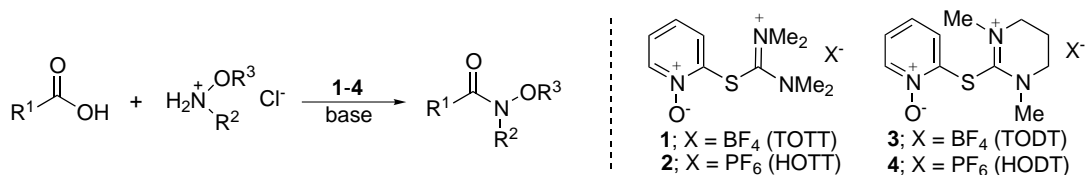


Direct synthesis of hydroxamates from carboxylic acids using 2-mercaptopyridone-1-oxide-based thiouronium salts

Tetrahedron Letters 42 (2001) 5013

Miguel A. Bailén, Rafael Chinchilla, David J. Dodsworth and Carmen Nájera*

Departamento de Química Orgánica, Universidad de Alicante, Apartado 99, 03080 Alicante, Spain



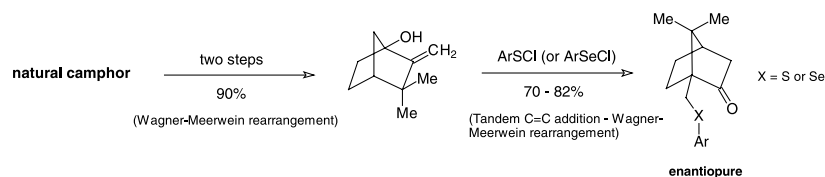
A new convenient procedure for the preparation of enantiopure C10-S- and C10-Se-substituted camphor-derived sulfides and selenides

Tetrahedron Letters 42 (2001) 5017

Antonio García Martínez,^{a,*} Enrique Teso Vilar,^b Amelia García Fraile,^b Santiago de la Moya Cerero^{a,*} and Beatriz Lora Maroto^b

^aDepto. de Química Orgánica I, Fac. de CC. Químicas, Universidad Complutense de Madrid, Ciudad Universitaria, 28040 Madrid, Spain

^bDepto. de Química Orgánica y Biología, Fac. de Ciencias, UNED, Senda del Rey 9, 28040 Madrid, Spain



Racemization processes at a quaternary carbon center in the context of the asymmetric Michael reaction

Tetrahedron Letters 42 (2001) 5021

Kimny Tan,^a Rosana Alvarez,^b Mohammed Nour,^a Christian Cavé,^{a,*} Angèle Chiaroni,^c Claude Riche^c and Jean d'Angelo^{d,*}

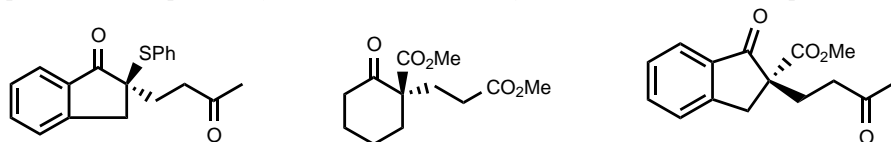
^aUnité de Molécules d'Intérêt Biologique, UFR Pharmacie, BP 87900, 21079 Dijon, France

^bDepartamento de Química Orgánica, Universidad de Vigo, Lagoas-Marcosende, 36200 Vigo, Spain

^cICSN, CNRS, Avenue de la Terrasse, 91198 Gif sur Yvette, France

^dCentre d'Etudes Pharmaceutiques, 5, rue J.-B. Clément, 92296 Châtenay-Malabry, France

Racemization processes at a quaternary carbon center affecting Michael adducts were reported.

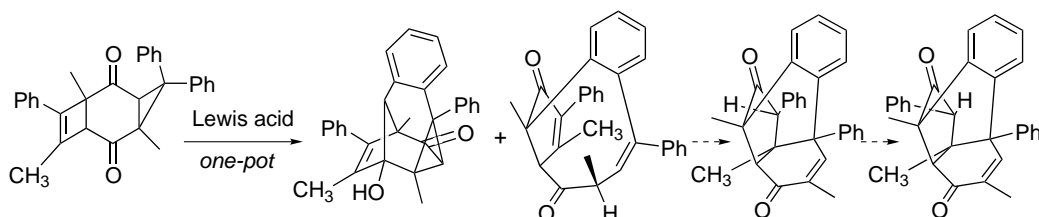


Lewis acid-catalyzed successive skeletal rearrangement of cyclobutene-fused diphenylhomoquinone

Tetrahedron Letters 42 (2001) 5025

Ken Kokubo, Takuya Koizumi, Hiroshi Yamaguchi and Takumi Oshima*

Department of Applied Chemistry, Faculty of Engineering, Osaka University, Toyonaka, Osaka 560-0043, Japan

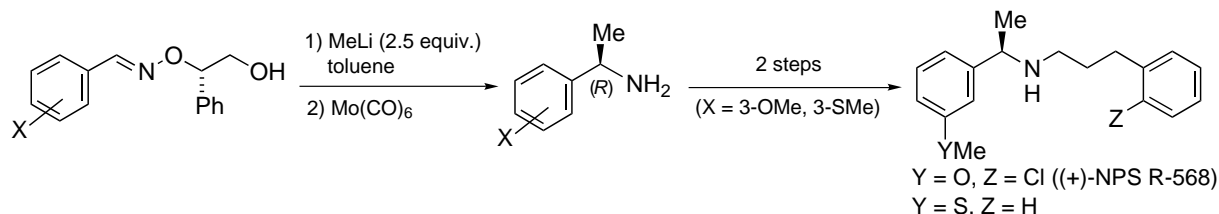


Nucleophilic addition of methyl lithium to chiral oxime ethers: asymmetric preparation of 1-(aryl)ethylamines and application to a synthesis of calcimimetics (+)-NPS R-568 and its thio analogue

Tetrahedron Letters 42 (2001) 5029

Naoki Yamazaki, Masakazu Atobe and Chihiro Kibayashi*

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

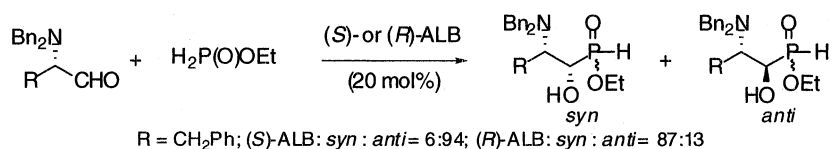


Diastereoselective synthesis of chiral β -amino- α -hydroxy-*H*-phosphinates through hydrophosphinylation of α -amino aldehydes

Tetrahedron Letters 42 (2001) 5033

Takehiro Yamagishi, Kenji Suemune, Tsutomu Yokomatsu* and Shiroshi Shibuya

School of Pharmacy, Tokyo University of Pharmacy and Life Science, 1432-1 Horinouchi, Hachioji, Tokyo 192-0392, Japan

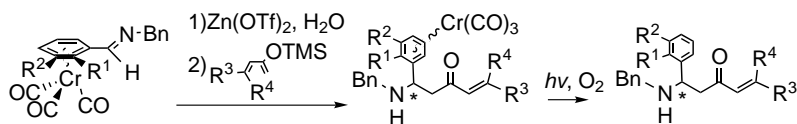


Stereoselective synthesis of Mannich-type products having a terminal olefin by use of benzaldiminetricarbonylchromium derivatives

Tetrahedron Letters 42 (2001) 5037

Kaori Ishimaru* and Takakazu Kojima

Department of Chemistry, The National Defense Academy, Hashirimizu 1-10-20, Yokosuka 239-8686, Japan

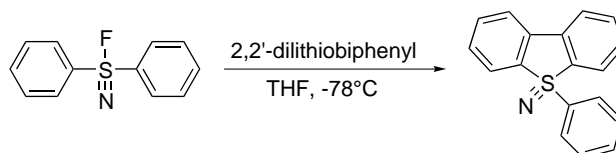


First preparation and crystal structure of heterocyclic λ^6 -sulfanenitrile, 2,2'-biphenylene(phenyl)- λ^6 -sulfanenitrile

Tetrahedron Letters 42 (2001) 5041

Takayoshi Fujii,* Akiko Itoh, Kouki Hamata and Toshiaki Yoshimura*

Department of Material Systems Engineering and Life Science, Faculty of Engineering, Toyama University, Gofuku, Toyama 930-8555, Japan

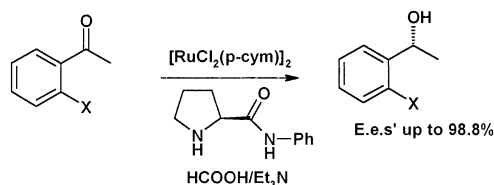


Use of amino amides derived from proline as chiral ligands in the ruthenium(II)-catalyzed transfer hydrogenation reaction of ketones

Tetrahedron Letters 42 (2001) 5045

Hae Yoon Rhyoo, Young-Ae Yoon, Hee-Jung Park and Young Keun Chung*

School of Chemistry and Center for Molecular Catalysis, Seoul National University, Seoul 151-747, South Korea

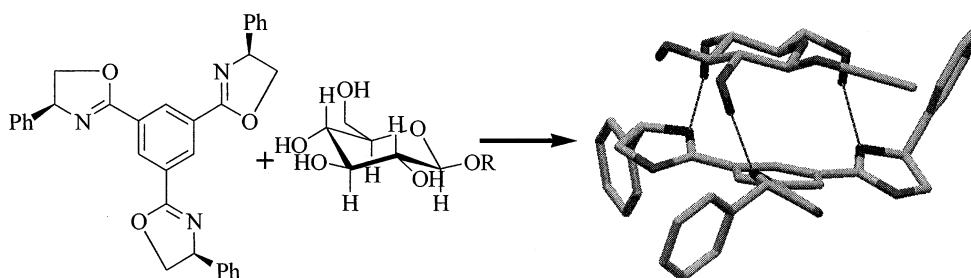


Sugar recognition by C₃-symmetric oxazoline hosts

Tetrahedron Letters 42 (2001) 5049

Hae-Jo Kim, Yeon-Hwan Kim and Jong-In Hong*

School of Chemistry and Molecular Engineering, Seoul National University, Seoul 151-742, South Korea

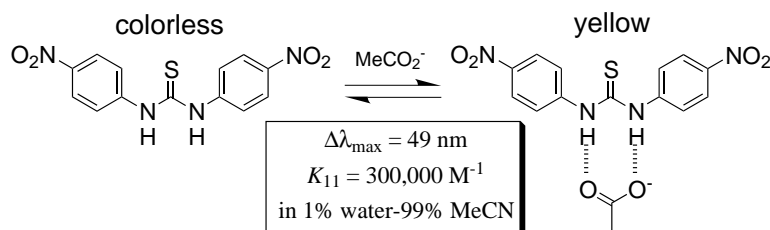


A thiourea-based chromoionophore for selective binding and sensing of acetate

Tetrahedron Letters 42 (2001) 5053

Ryo Kato, Seiichi Nishizawa, Takashi Hayashita and Norio Teramae*

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



Aluminum chloride catalyzed hydrosilylation of cyclopropanes with chlorodimethylsilane

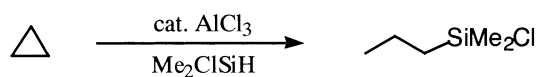
Tetrahedron Letters 42 (2001) 5057

Shigeru Nagahara,^{a,*} Takashi Yamakawa^a and Hisashi Yamamoto^b

^a*Department of Chemistry and Biochemistry, Suzuka National College of Technology, Shiroko, Suzuka 510-0294, Japan*

^b*Graduate School of Engineering, Nagoya University, Chikusa, Nagoya 464-8603, Japan*

The highly regioselective hydrosilylation of simple cyclopropanes with Me₂ClSiH in hexane using AlCl₃ catalyst.



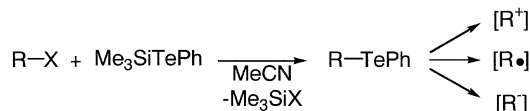
A new, practical synthesis of organotellurium compounds from organic halides and silyl tellurides. Remarkable effects of polar solvents and leaving groups

Tetrahedron Letters 42 (2001) 5061

Shigeru Yamago,* Kazunori Iida and Jun-ichi Yoshida*

Department of Synthetic Chemistry and Biological Chemistry, Graduate School of Engineering, Kyoto University, Yoshida Hon-machi, Sakyo-ku, Kyoto 606-8501, Japan

Silyl tellurides react with organic halides in polar solvents to give the corresponding organotellurium compounds in good to excellent yields. After removal of the volatile silyl halides and solvent, essentially pure product was obtained.

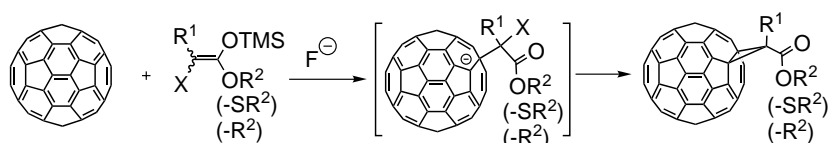


Synthesis of methano[60]fullerene derivatives: the fluoride ion-mediated reaction of [60]fullerene with silylated nucleophiles

Tetrahedron Letters 42 (2001) 5065

Tetsuo Hino, Kazushi Kinbara and Kazuhiko Saigo*

Department of Integrated Biosciences, Graduate School of Frontier Sciences, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113-8656, Japan

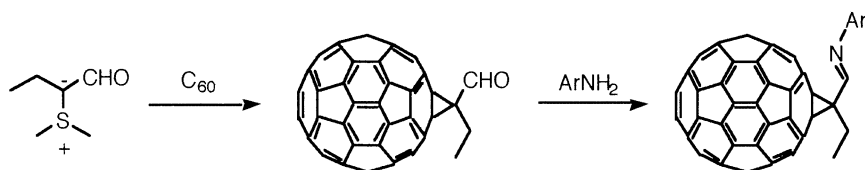


Synthesis and transformation of a novel methano[60]fullerene having a formyl group

Tetrahedron Letters 42 (2001) 5069

Masahiro Hamada, Tetsuo Hino, Kazushi Kinbara and Kazuhiko Saigo*

Department of Integrated Biosciences, Graduate School of Frontier Sciences, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113-8656, Japan



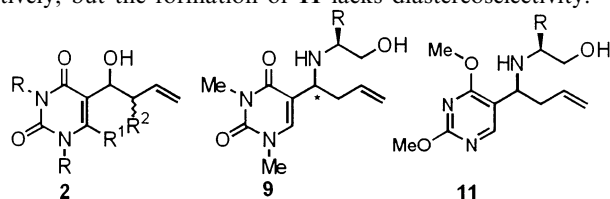
A highly diastereoselective synthesis of homoallylic alcohol/amine appended uracils: the role of the uracil C-4 carbonyl in diastereoselectivity control

Tetrahedron Letters 42 (2001) 5073

Subodh Kumar,* Vijay Kumar, Satwinder Singh and Swapandeep Singh Chimni

Department of Chemistry, Guru Nanak Dev University, Amritsar 143 005, India

5-Formyluracils and their Schiff bases with chiral amino alcohols undergo highly diastereoselective 1,2- and 1,3-allylations to form **2** and **9**, respectively, but the formation of **11** lacks diastereoselectivity.



Merging of 4+2 and 2+4 cycloaddition paths in the regioselective dimerization of methacrolein. A case of concerted crypto-diradical cycloaddition

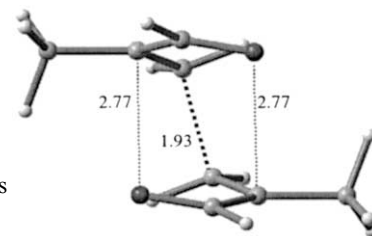
Tetrahedron Letters 42 (2001) 5077

Lucio Toma,^a Silvano Romano,^b Paolo Quadrelli^a and Pierluigi Caramella^{a,*}

^a*Dipartimento di Chimica Organica, Università degli Studi di Pavia, Viale Taramelli 10, Pavia I-27100, Italy*

^b*Istituto Nazionale per la Fisica della Materia e Dipartimento di Fisica "A. Volta", Università degli Studi di Pavia, Via Bassi 6, Pavia I-27100, Italy*

The regioselective dimerization of methacrolein takes place through a very asynchronous and symmetrical transition structure, which shows a merging of the 4+2 and 2+4 cycloaddition paths. The geometrical features of the transition structures correspond well to a case of diradical formation. A cage of secondary orbital interactions restricts the flexibility of the diradical transition structure and stabilizes it.



Synthesis of indazole-N-oxides via the 1,7-electrocyclisation of azomethine ylides

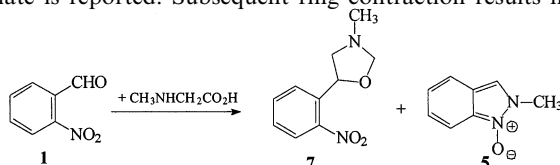
Tetrahedron Letters 42 (2001) 5081

Miklós Nyerges,^{a,*} Imre Fejes,^a Andrea Virányi,^a Paul W. Groundwater^b and László Tóke^a

^a*Research Group of the Hungarian Academy of Sciences, Department of Organic Chemical Technology, Technical University of Budapest, PO Box 91, H-1521 Budapest, Hungary*

^b*Institute of Pharmacy and Chemistry, School of Sciences, University of Sunderland, Sunderland SR1 3SD, UK*

The first example of the 1,7-electrocyclisation of a non-stabilised azomethine ylide onto a nitro group, to give a 1,2,6-oxadiazepine intermediate is reported. Subsequent ring contraction results in the formation of the indazole-N-oxides and other products.

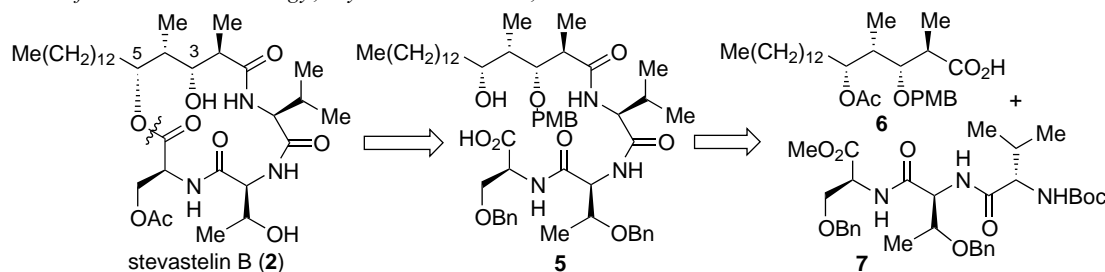


Studies directed towards the synthesis of stevastelins—a macrolactonization approach to stevastelin B

Tetrahedron Letters 42 (2001) 5085

Tushar K. Chakraborty,^{*} Subhash Ghosh and Shantanu Dutta

Indian Institute of Chemical Technology, Hyderabad 500 007, India



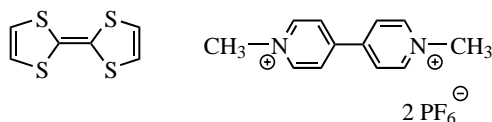
The charge-transfer complexation of tetrathiafulvalene with paraquat and its oligomeric derivatives

Tetrahedron Letters 42 (2001) 5089

Graeme Cooke,^{a,*} Hugues Augier de Cremiers,^{a,b} Florence M. A. Duclairor,^a Mark Gray,^b Paz Vaqueiro,^a Anthony V. Powell,^a Georgina Rosair^a and Vincent M. Rotello^b

^a*Department of Chemistry, Heriot-Watt University, Riccarton, Edinburgh EH14 4AS, UK*

^b*Department of Chemistry, University of Massachusetts at Amherst, Amherst, MA 01002, USA*

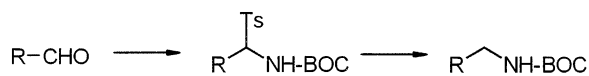


Reductive BOC-amination of aldehydes

Elżbieta Bernacka, Anna Klepacz and Andrzej Zwierzak*

Institute of Organic Chemistry, Technical University (Politechnika), Żeromskiego 116, 90-924 Lodz, Poland

Tetrahedron Letters 42 (2001) 5093

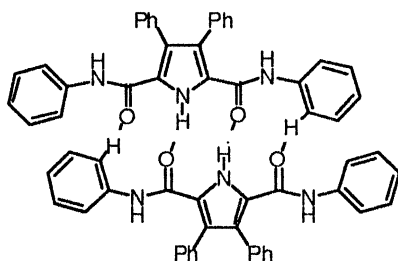


Hydrogen-bonding pyrrolic amide cleft anion receptors

Philip A. Gale,* Salvatore Camiolo, Christopher P. Chapman,
Mark E. Light and Michael B. Hursthouse

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

Tetrahedron Letters 42 (2001) 5095



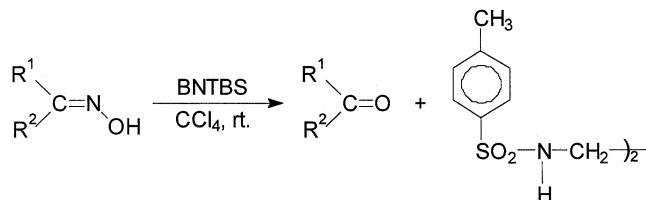
The application of *N,N'*-dibromo-*N,N'*-1,2-ethanediylibis (*p*-toluenesulphonamide) as a powerful reagent for deoxygenation of various oximes

Ardeshir Khazaei,^{a,*} Ramin Ghorbani Vaghei^a and Mahmoud Tajbakhsh^b

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Tetrahedron Letters 42 (2001) 5099



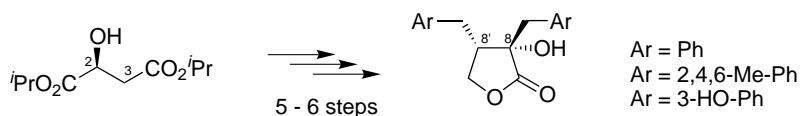
Enantioselective synthesis of α -hydroxylated enterolactone and analogs

Michael Sefkow,^{a,*} Alexandra Kelling^b and Uwe Schilde^b

^a*Universität Potsdam, Institut für Organische Chemie und Strukturanalytik, Karl-Liebknecht-Straße 24-25, D-14476 Golm, Germany*

^b*Universität Potsdam, Institut für Anorganische Chemie und Didaktik der Chemie, Karl-Liebknecht-Straße 24-25, D-14476 Golm, Germany*

Tetrahedron Letters 42 (2001) 5101

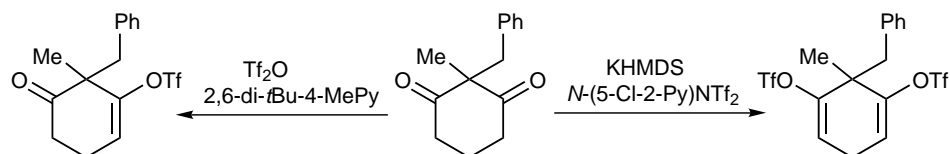


The selective preparation and Suzuki coupling reactivity of cyclic 1,3-dione derived mono- and ditriflates

Tetrahedron Letters 42 (2001) 5105

Michael C. Willis* and Christelle K. Claverie

Department of Chemistry, University of Bath, Bath BA2 7AY, UK

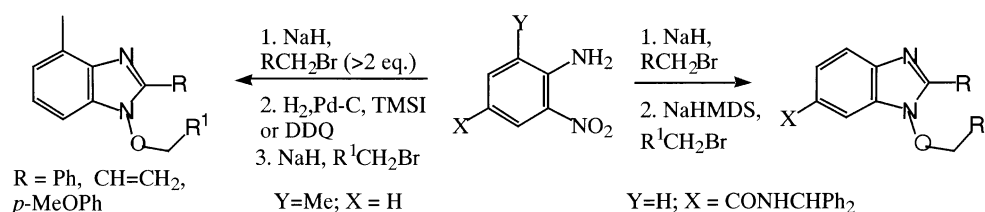


Synthesis of *N*-alkoxybenzimidazoles with differentiated C2 and *O*-substituents

Tetrahedron Letters 42 (2001) 5109

John M. Gardiner* and Jonathan Procter

Department of Chemistry, UMIST, Manchester M60 1QD, UK

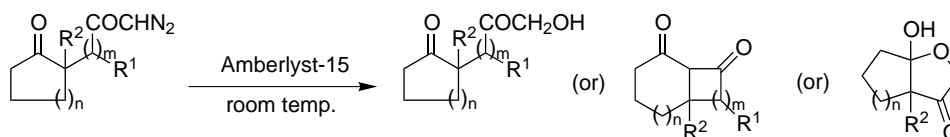


Amberlyst-15 mediated decomposition of α -diazo carbonyl compounds

Tetrahedron Letters 42 (2001) 5113

Sengodagounder Muthusamy,* Srinivasarao Arulananda Babu, Chidambaram Gunanathan and Raksh Vir Jasra

Silicates and Catalysis Discipline, Central Salt and Marine Chemicals Research Institute, Bhavnagar 364 002, India



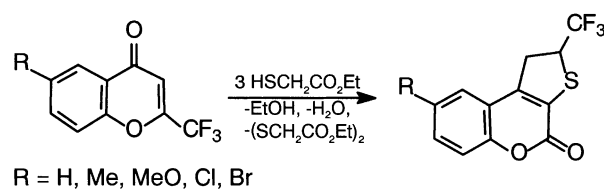
Unexpected synthesis of dihydrothienocoumarin derivatives from 2-trifluoromethylchromones and ethyl mercaptoacetate

Tetrahedron Letters 42 (2001) 5117

Vyacheslav Ya. Sosnovskikh,^{a,*} Boris I. Usachev,^a Dmitri V. Sevenard,^b Enno Lork^b and Gerd-Volker Rösenthaller^b

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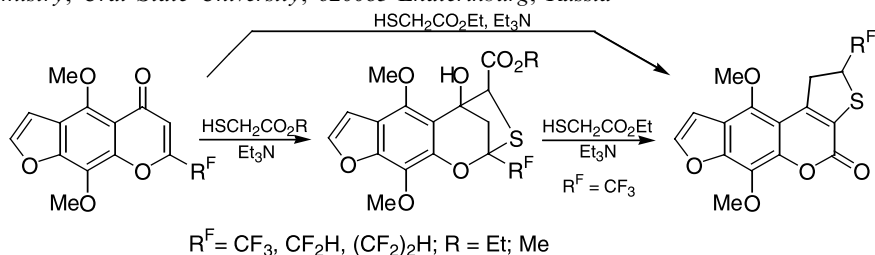


Reactions of 7-polyfluoroalkylnorkhellins with alkyl mercaptoacetates: a simple synthesis of dihydrothienopsoralens and benzofuran derivatives of 2-oxa-7-thiabicyclo[3.2.1]octane

Tetrahedron Letters 42 (2001) 5121

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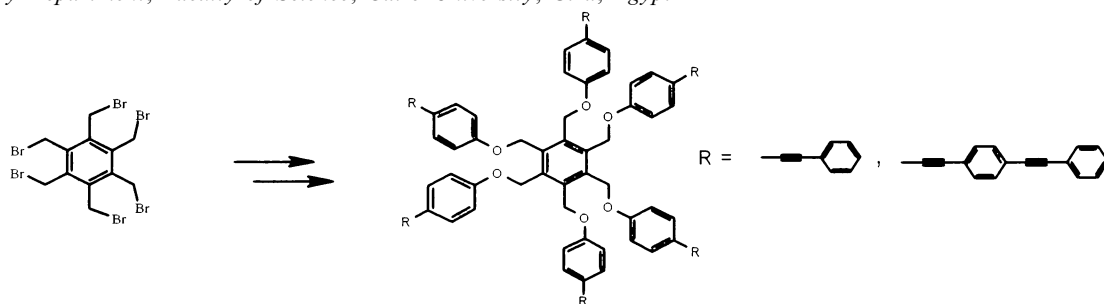


A new approach for the design of novel hexa-host molecules

Tetrahedron Letters 42 (2001) 5123

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Synthesis of amino alcohols on solid support via sulfonium-ion mediated Darzens reaction

Tetrahedron Letters 42 (2001) 5127

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An epoxide synthesis on solid support via an immobilized sulfonium salt, which is generated from a bromoacetic amide, is described. The ring opening with amines leads to single diastereoisomers of amino alcohols, which can be cleaved from the solid support.

