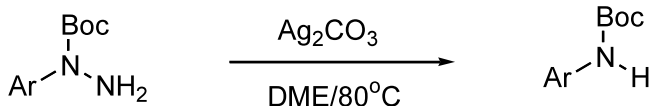


Ag⁺ mediated deaminations of *N*-Boc aryl hydrazines for the efficient synthesis of *N*-Boc aryl amines

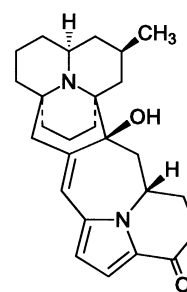
Kang-Sang Lee, Young-Kwan Lim and Cheon-Gyu Cho*

Department of Chemistry, Hanyang University, Seoul, Republic of Korea 133-791

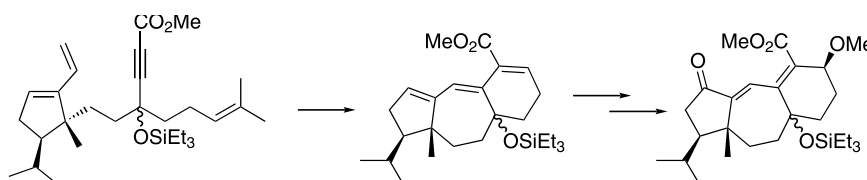
Tetrahedron Letters 43 (2002) 7463

**Chilocorine D, a novel heptacyclic alkaloid from a coccinellid beetle (*Chilocorus renipustulatus*)**Pascal Laurent,^a Jean-Claude Braekman,^{a,*} Désiré Dalozé^{a,*} and Jacques M. Pasteels^b^aLaboratory of Bio-organic Chemistry CP 160/07, Department of Organic Chemistry, Université Libre de Bruxelles, 50, Av. F. D. Roosevelt, 1050 Brussels, Belgium^bLaboratory of Animal and Cellular Biology CP 160/12, Université Libre de Bruxelles, 50, Av. F. D. Roosevelt, 1050 Brussels, Belgium

Tetrahedron Letters 43 (2002) 7465

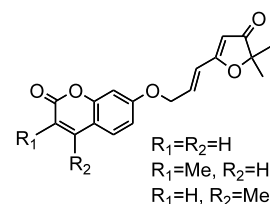
**Synthesis of a highly functionalized tricyclic ring system related to guanacastepene via a tandem ring-closing metathesis reaction**François-Didier Boyer^a and Issam Hanna^{b,*}^aUnité de Phytopharmacie et Médiateurs Chimiques, INRA, Route de Saint-Cyr, F-78026 Versailles, France^bLaboratoire de Synthèse Organique associé au CNRS, Ecole Polytechnique, F-91128 Palaiseau Cedex, France

Tetrahedron Letters 43 (2002) 7469

**New geiparvarin analogues from 7-(2-oxoethoxy)coumarins as efficient in vitro antitumoral agents**Stefano Chimichi,^{a,*} Marco Boccalini,^a Barbara Cosimelli,^b Giampietro Viola,^c Daniela Vedaldi^c and Francesco Dall'Acqua^c^aDipartimento di Chimica Organica 'U. Schiff', via della Lastruccia 13, I-50019 Sesto F.no, Florence, Italy^bDipartimento di Chimica Organica 'A. Mangini', via S. Donato 15, I-40127 Bologna, Italy^cDipartimento di Scienze Farmaceutiche, Via Marzolo 5, I-35131 Padua, Italy

The synthesis and the in vitro antitumoral activity of new analogues of geiparvarin are described.

Tetrahedron Letters 43 (2002) 7473

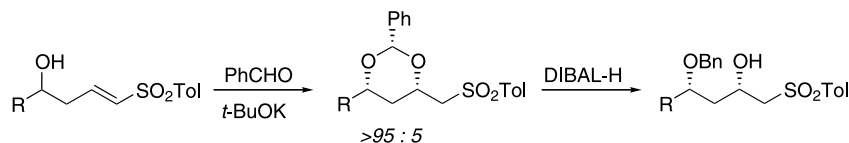


Synthesis of protected *syn* 1,3-diols by intramolecular conjugate addition to vinyl sulfones

Tetrahedron Letters 43 (2002) 7477

Laurence Grimaud, Delphine Rotulo, Rafael Ros-Perez, Ludivine Guitry-Azam and Joëlle Prunet*

Laboratoire de Synthèse Organique associé au CNRS, UMR 7652, DCSO, Ecole Polytechnique, 91128 Palaiseau, France



Synthesis of new triazepinethiones

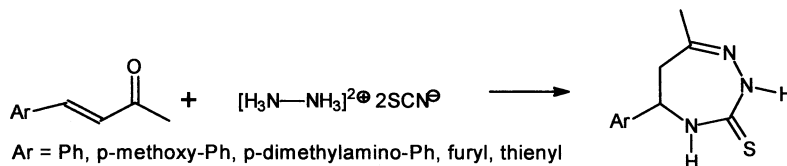
Tetrahedron Letters 43 (2002) 7481

Werner Seebacher,^a Günther Michl^b and Robert Weis^{a,*}

^aInstitute of Pharmaceutical Chemistry and Pharmaceutical Technology, Karl-Franzens-University of Graz, Universitätsplatz 1, A-8010 Graz, Austria

^bSchering A.G., Müllerstrasse 170-178, D-13342 Berlin, Germany

The first synthesis of 7-alkyl-5-aryl substituted 1,2,4-triazepine-3-thiones is reported. Starting materials were α,β -unsaturated ketones and hydrazinediium dithiocyanate. Benefits and limits of this new method are discussed.

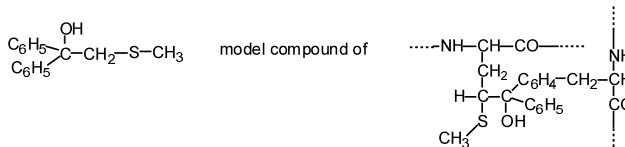


1,1-Diphenyl-2-methylsulfinyl ethanol: a model compound to study the reactivity towards CNBr of a photoadduct of methionine on C₇H₂

Tetrahedron Letters 43 (2002) 7485

Emmanuelle Sachon, Thierry Milcent, Sandrine Sagan, Odile Convert, Gérard Chassaing and Solange Lavielle*

Structure et Fonction de Molécules Bioactives-CNRS, Université Pierre et Marie Curie, Case 182, 4, place Jussieu, 75005 Paris, France



Solid phase synthesis of α -acylamino- α,α -disubstituted ketones

Tetrahedron Letters 43 (2002) 7491

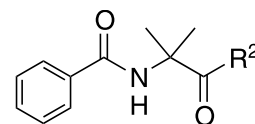
Colin M. Tice,^{a,*} Enrique L. Michelotti,^b Ernesto G. Mata,^{b,c} Ernesto Nicolàs,^d Javier García^{b,d} and Fernando Albericio^{d,*}

^aRHeoGene Inc., PO Box 949, 727 Norristown Road, Spring House, PA 19477-0949, USA

^bRohm and Haas Company, PO Box 904, 727 Norristown Road, Spring House, PA 19477-0904, USA

^cInstituto de Química Orgánica de Síntesis, CONICET-Universidad Nacional de Rosario, Rosario, Argentina

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



R² = Et, Ph

Combined solid phase and solution synthesis of a library of α,α -disubstituted- α -acylaminoketones

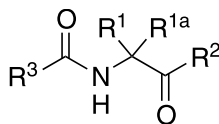
Tetrahedron Letters 43 (2002) 7495

Javier Garcia,^{a,b} Ernesto Nicolàs,^a Fernando Albericio,^{a,*} Enrique L. Michelotti^{b,*} and Colin M. Tice^c

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

^bRohm and Haas Company, PO Box 904, 727 Norristown Road, Spring House, PA 19477-0904, USA

^cRHeoGene Inc., PO Box 949, 727 Norristown Road, Spring House, PA 19477-0949, USA



25 compound library

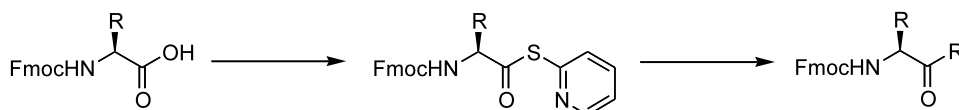
Synthesis of Fmoc-protected amino ketones bearing *tert*-butyl based side-chain protecting groups

Tetrahedron Letters 43 (2002) 7499

Jesús Vázquez and Fernando Albericio*

Barcelona Biomedical Research Institute-Barcelona Science Park and Department of Organic Chemistry, University of Barcelona, E-08028 Barcelona, Spain

A variety of Fmoc-protected amino ketones have been prepared in good yields from amino acids by their transformation into thioesters of 2-mercaptopyridine and reaction of the resulting products with dialkylcuprates.

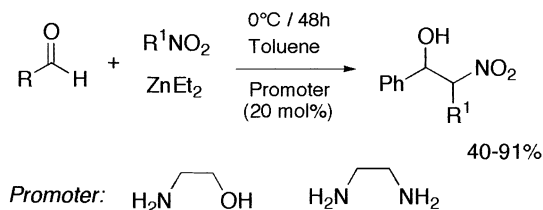


Activation of nitroaldol reactions by diethylzinc and amino alcohols or diamines as promoters

Tetrahedron Letters 43 (2002) 7503

Günter Klein, Subramaniam Pandiaraju and Oliver Reiser*

Institut für Organische Chemie der Universität, Universitätsstraße 31, 93053 Regensburg, Germany



Synthesis of dumbbell-shaped bis-(pyrazolino[60]fullerene)-oligophenylenevinylene derivatives

Tetrahedron Letters 43 (2002) 7507

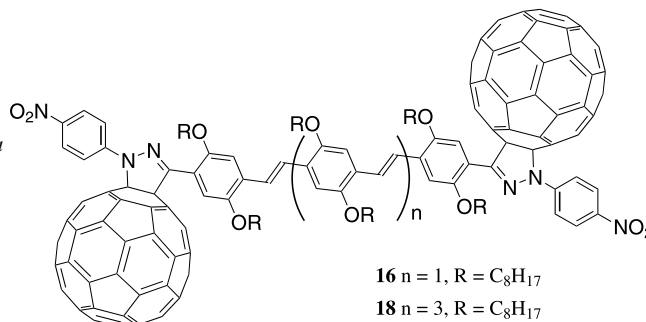
María J. Gómez-Escalonilla,^a Fernando Langa,^{a,*}

Jean-Michel Rueff,^b Laurence Oswald^b and

Jean-François Nierengarten^{b,*}

^aFacultad de Ciencias del Medio Ambiente, Universidad de Castilla-La Mancha, 45071 Toledo, Spain

^bGroupe des Matériaux Organiques, Institut de Physique et Chimie des Matériaux de Strasbourg, Université Louis Pasteur et CNRS, 23 rue du Loess, 67037 Strasbourg Cedex, France



16 $n = 1$, $R = C_8H_{17}$

18 $n = 3$, $R = C_8H_{17}$

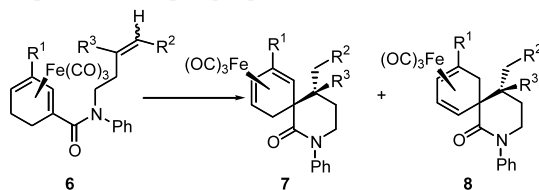
Intramolecular coupling between cyclohexadiene-Fe(CO)₃ complexes and pendant alkenes: formation of azaspiro[5,5]undecane derivatives

Tetrahedron Letters 43 (2002) 7513

Anthony J. Pearson* and Xiaolong Wang

The Department of Chemistry, Case Western Reserve University, Cleveland, OH 44106, USA

Cyclization of amide iron complex to produce azaspiro[5,5]undecane derivatives.

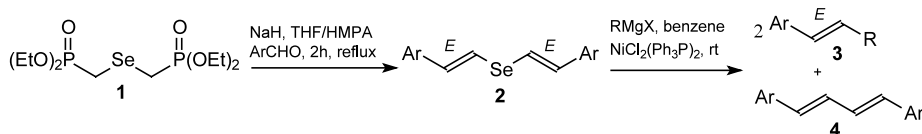


Preparation and nickel-catalyzed coupling reactions of divinyllic selenides

Tetrahedron Letters 43 (2002) 7517

Claudio C. Silveira,* Paulo Cesar S. Santos and Antonio L. Braga

Departamento de Química, Universidade Federal de Santa Maria, Caixa Postal 5001, 97105-900 Santa Maria, RS, Brazil



Regioselective Michael addition of thiols to tertiary fumaric amide esters

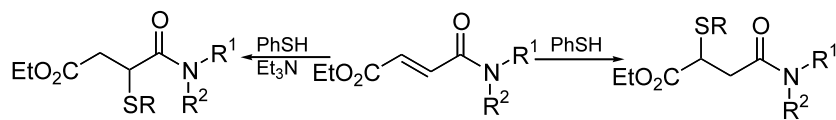
Tetrahedron Letters 43 (2002) 7521

Akio Kamimura,^{a,*} Norikazu Murakami,^a Kakuteru Yokota,^a Masashi Shirai^b and Hiroaki Okamoto^c

^aDepartment of Applied Chemistry, Faculty of Engineering, Yamaguchi University, Ube 755-8611, Japan

^bUbe Laboratory, Ube Industries Ltd., Ube 755-8633, Japan

^cDepartment of Advance Materials Science and Engineering, Faculty of Engineering, Yamaguchi University, Ube 755-8611, Japan



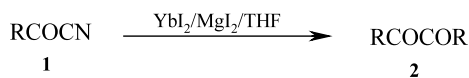
A new ytterbium iodide mediated coupling of acyl cyanides and synthesis of 1,2-diketones

Tetrahedron Letters 43 (2002) 7525

Promod Saikia, Dhrubojyoti D. Laskar, Dipak Prajapati and Jagir S. Sandhu*

Regional Research Laboratory, Jorhat 785006, Assam, India

Conversion of acyl cyanides **1** into 1,2-diketones **2** has been achieved by the action of ytterbium iodide in dry tetrahydrofuran at room temperature, in high yields.

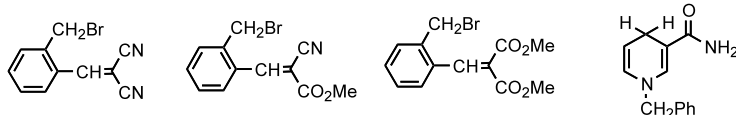


Thermal and photoinduced reduction of some benzyl bromides by an NAD(P)H model: the effect of electron withdrawing groups on mechanism and reactivity

Hongyi Wang,^{a,b*} Danmei Dai^{a,b}, Youcheng Liu^{a,b*} and Qingxiang Guo^{a,b}

^aDepartment of Chemistry, University of Science and Technology of China, Hefei, 230026, PR China

^bNational Laboratory of Applied Organic Chemistry and Department of Chemistry, Lanzhou University, Lanzhou 730000, PR China



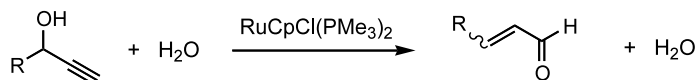
Efficient transformation of propargylic alcohols to α,β -unsaturated aldehydes catalyzed by ruthenium/water under neutral conditions

Toshiaki Suzuki,^a Makoto Tokunaga^b and Yasuo Wakatsuki^{a,*}

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

^bPRESTO (Japan Science and Technology Corporation), Kawaguchi, Saitama 332-0012, Japan

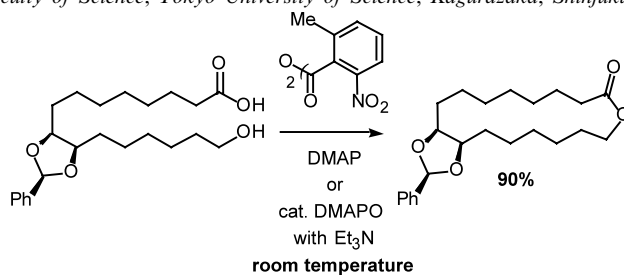
Formal isomerization of propargylic alcohols to α,β -unsaturated aldehydes takes place via anti-Markovnikov hydration and dehydration processes catalyzed by a ruthenium complex.



A novel and efficient macrolactonization of ω -hydroxycarboxylic acids using 2-methyl-6-nitrobenzoic anhydride (MNBA)

Isamu Shiina,^{*} Mari Kubota and Ryoutarou Ibuka

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



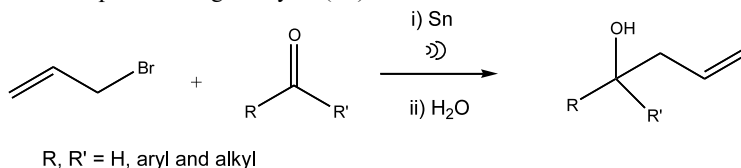
Efficient solvent-free in situ tin-mediated homoallylation reactions

Philip C. Andrews,^{a,*} Anna C. Peatt^a and Colin L. Raston^b

^aCentre for Green Chemistry/School of Chemistry, Monash University, Clayton, Victoria 3800, Australia

^bDepartment of Chemistry, University of Leeds, Leeds LS2 9JT, UK

Under ultrasonic irradiation various aldehydes are converted into their corresponding homoallylic alcohols via a solventless process, the reactive species being diallyltin(IV) dibromide.

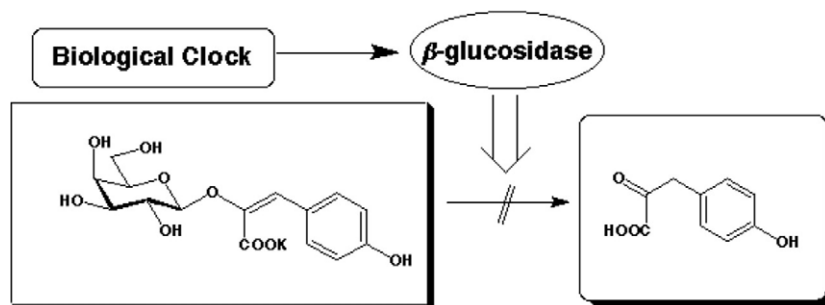


The biological significance of leaf-movement, an approach using a synthetic inhibitor of leaf-closure

Tetrahedron Letters 43 (2002) 7545

Minoru Ueda,* Takanori Sugimoto,
Yoshiyuki Sawai and
Shosuke Yamamura

Laboratory of Natural Products Chemistry,
Faculty of Science and Technology,
Keio University, Hiyoshi 3-14-1,
Yokohama 223-8522, Japan



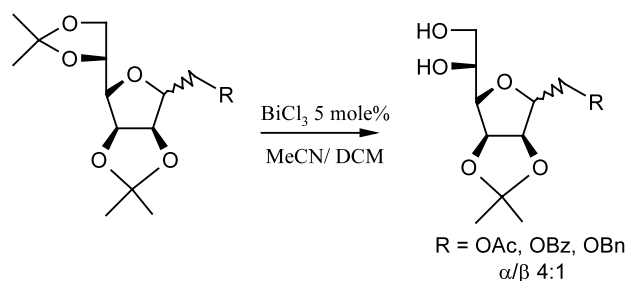
A mild and efficient method for chemoselective deprotection of acetonides by bismuth(III) trichloride

Tetrahedron Letters 43 (2002) 7549

N. Raghavendra Swamy and Y. Venkateswarlu*

Natural Products Laboratory, Organic Chemistry Division-I,
Indian Institute of Chemical Technology, Hyderabad 500 007,
India

Acetonides undergo chemoselective deprotection to afford the corresponding 1,2-diols in excellent yields using bismuth trichloride in acetonitrile/dichloromethane at ambient temperature.



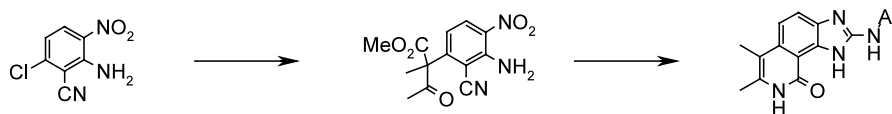
Isoquinolinone synthesis by S_NAr reaction: a versatile route to imidazo[4,5-*h*]isoquinolin-9-ones

Tetrahedron Letters 43 (2002) 7553

Roger J. Snow,^{a,*} Tanja Butz,^a Abdelhakim Hammach,^a Suresh Kapadia,^b Tina M. Morwick,^a Anthony S. Prokopowicz, III,^a Hidenori Takahashi,^a Jonathan D. Tan,^b Matt A. Tschantz^a and Xiao-Jun Wang^b

^aDepartment of Medicinal Chemistry, Boehringer Ingelheim Pharmaceuticals Inc., 900 Ridgebury Road, Ridgefield, CT 06877, USA

^bChemical Development, Boehringer Ingelheim Pharmaceuticals Inc., 900 Ridgebury Road, Ridgefield, CT 06877, USA

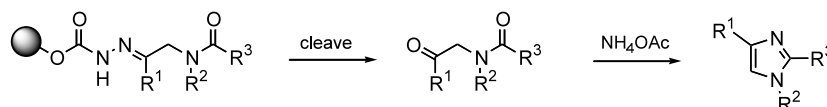


Parallel synthesis of 1,2,4-trisubstituted imidazoles via *N*-alkyl-*N*-(β -keto)amides using a carbazate linker

Tetrahedron Letters 43 (2002) 7557

James M. Cobb, Neil Grimster, Nawaz Khan, Justine Y. Q. Lai,* Helen J. Payne (née Gold),*
Lloyd J. Payne, Tony Raynham and Jess Taylor

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

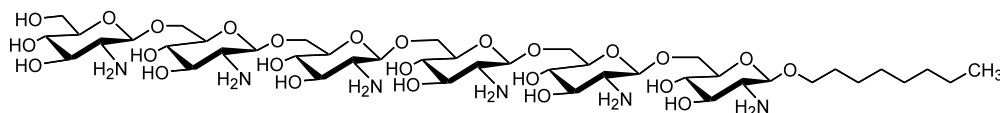


Synthesis of (1 → 6)-β-D-glucosamine hexasaccharide, a potential antitumor and immunostimulating agent

Feng Yang, Hongmei He and Yuguo Du*

Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 100085 Beijing, China

Tetrahedron Letters 43 (2002) 7561



Asymmetric synthesis of myrioxazines A and B, novel alkaloids of *Myrioneuron nutans*

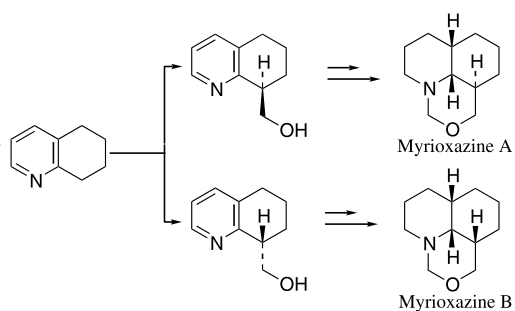
Van Cuong Pham,^a Akino Jossang,^a Angèle Chiaroni,^b

Thierry Sévenet^b and Bernard Bodo^{a,*}

^aLaboratoire de Chimie des Substances Naturelles-ESA 8041 CNRS, Muséum National d'Histoire Naturelle, 63, rue Buffon, 75005 Paris, France

^bInstitut de Chimie des Substances Naturelles, CNRS-91198 Gif-sur-Yvette cedex, France

Tetrahedron Letters 43 (2002) 7565

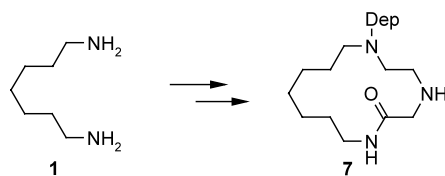


Facile synthesis of a selectively protected triazamacrocycle

Renato T. Skerlj,* Siqiao Nan, Yuanxi Zhou and Gary J. Bridger

AnorMED Inc., # 200-20353 64th Ave, Langley, BC, Canada V2Y 1N5

Tetrahedron Letters 43 (2002) 7569



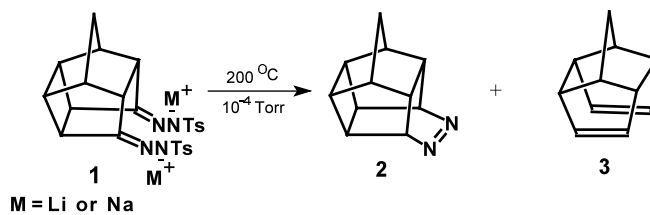
Carbenes in polycyclic systems. Generation and fate of pentacyclo-[5.4.0.0^{2,6}.0^{3,10}.5^{5,9}]undecanylidene species

Jelena Veljković, Lada Klaić and

Kata Mlinarić-Majerski*

Department of Organic Chemistry and Biochemistry, Ruđer Bošković Institute, PO Box 180, 10002 Zagreb, Croatia

Tetrahedron Letters 43 (2002) 7573



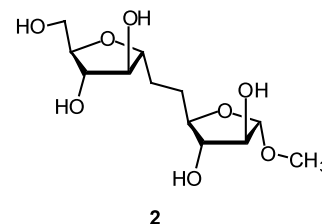
Pyrolysis of lithium or sodium salts **1** gave two products, azoalkane **2** and olefin **3** in a 9:1 ratio. Azoalkane **2** proved to be extremely thermally and photochemically stable thus supporting the hypothesis that **3** is formed by generation of a dicarbene species.

First synthesis of methyl α -C-D-arabinofuranosyl-(1 \rightarrow 5)- α -D-arabinofuranoside: the C-disaccharide segment of motif C of *Mycobacterium tuberculosis*

Mukund K. Gurjar,* Ravi Nagaprasad and C. V. Ramana
National Chemical Laboratory, Pune 411 008, India

The synthesis of C-analogue **2** of the α -araf-(1 \rightarrow 5)-araf disaccharide present in motif C of the arabino-galactan portion of *Mycobacterium tuberculosis*, has been described using the nitro-aldol condensation as the key step.

Tetrahedron Letters 43 (2002) 7577

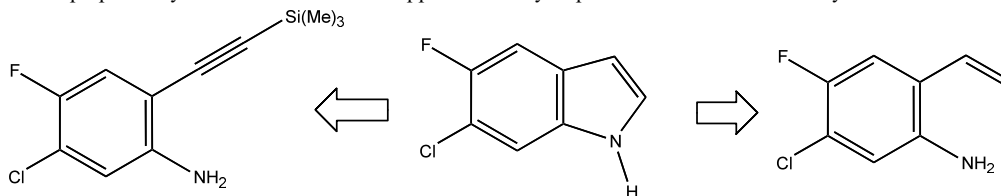


Preparation of 6-chloro-5-fluoroindole via the use of palladium and copper-mediated heterocyclisations

David R. Adams, Matthew A. J. Dunston,* Jonathan R. A. Roffey and John Spencer
Department of Chemistry, Vernalis Research Ltd, Oakdene Court, 613 Reading Road, Winnersh, Wokingham RG41 5UA, UK

The title indole was prepared by either stoichiometric copper- or catalytic palladium-mediated heterocyclisations.

Tetrahedron Letters 43 (2002) 7581



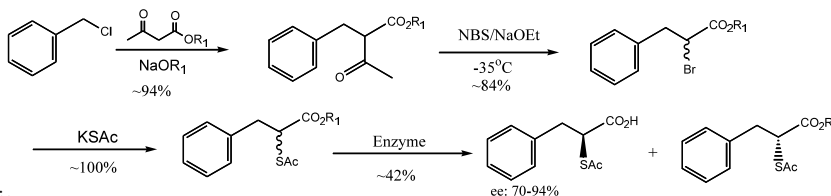
Synthesis of optically pure (S)-2-acetylthio-3-benzenepropanoic acid via enzymatic resolution

Jingyang Zhu,^{a,*} Li You,^b Shannon X. Zhao,^a Brenda White,^b Jason G. Chen^b and Paul M. Skonezny^b

^aChemical Development Labs, Bristol-Myers Squibb Company, PO Box 4755, Syracuse, NY 13221, USA

^bFermentation and Biocatalysis Development, Bristol-Myers Squibb Company, PO Box 4755, Syracuse, NY 13221, USA

Optically pure 2-acetylthio-3-benzenepropanoic acid can be obtained in good yield via enzymatic resolution.



Tetrahedron Letters 43 (2002) 7585

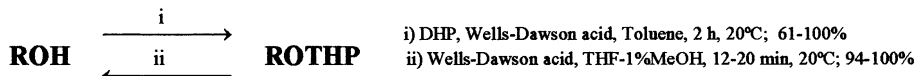
Efficient method for tetrahydropyranylation/depyranylation of phenols and alcohols using a solid acid catalyst with Wells-Dawson structure

Gustavo P. Romanelli,^{a,b} Graciela Baronetti,^c Horacio J. Thomas^b and Juan C. Autino^{a,*}

^aLaboratorio de Estudio de Compuestos Orgánicos (LADECOR), Departamento de Química, Facultad de Ciencias Exactas, Universidad Nacional de La Plata, Calles 47 y 115 (1900), La Plata, Argentina

^bCentro de Investigación y Desarrollo en Procesos Catalíticos (CINDECA), Departamento de Química, Facultad de Ciencias Exactas, Universidad Nacional de La Plata-CONICET, Calle 47 N° 257 (1900), La Plata, Argentina

^cDepartamento de Ingeniería Química, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Ciudad Universitaria (1428), Buenos Aires, Argentina



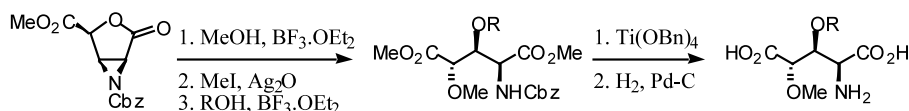
Tetrahedron Letters 43 (2002) 7589

Enantiospecific synthesis of 3,4-disubstituted glutamic acids via controlled stepwise ring-opening of 2,3-aziridino- γ -lactone

Tetrahedron Letters 43 (2002) 7593

Zhaohua Yan, Robert Weaving, Philippe Dauban and Robert H. Dodd*

Institut de Chimie des Substances Naturelles, C.N.R.S., 91198 Gif-sur-Yvette Cedex, France



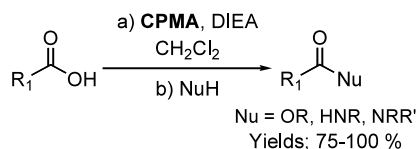
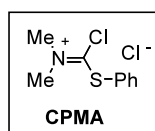
(Chloro-phenylthio-methylene)dimethylammonium chloride (CPMA): a new coupling reagent for the formation of ester and amide bond

Tetrahedron Letters 43 (2002) 7597

Laurent Gomez,^a Silvère Ngouela,^a Françoise Gellibert,^b Alain Wagner^{a,*} and Charles Mioskowski^{a,*}

^aFaculte de Pharmacie, Laboratoire de Synthèse Bioorganique, Université Louis Pasteur de Strasbourg, UMR 7514 associée au CNRS, 74 route du Rhin, 67401 Illkirch, France

^bLaboratoire GlaxoWellcome, Centre de Recherches, 25, Avenue du Québec, 91951 Les Ullis Cedex, France

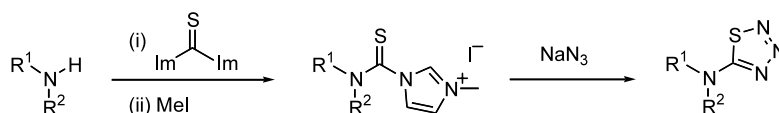


An efficient protocol for the formation of aminothiazoles from thiocarbamoylimidazolium salts

Tetrahedron Letters 43 (2002) 7601

Marisa G. Ponzio, Ghotas Evindar and Robert A. Batey*

Department of Chemistry, University of Toronto, 80 St. George Street, Toronto, Ontario, Canada M5S 3H6

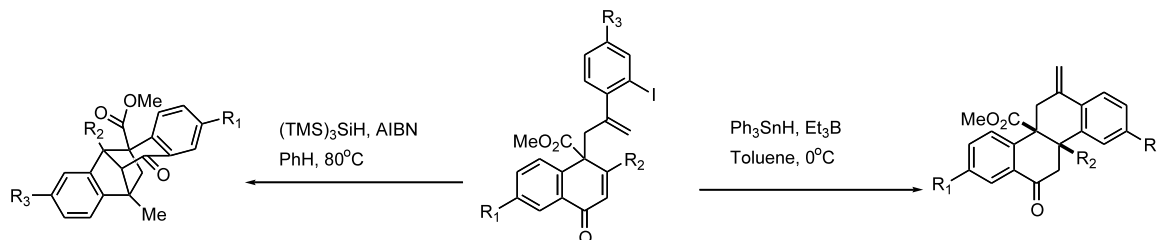


A 6-*exo-trig* radical cyclization approach to the hydrochrysene skeleton

Tetrahedron Letters 43 (2002) 7605

Xuqing Zhang,* Timothy Guzi, Liping Pettus and Arthur G. Schultz

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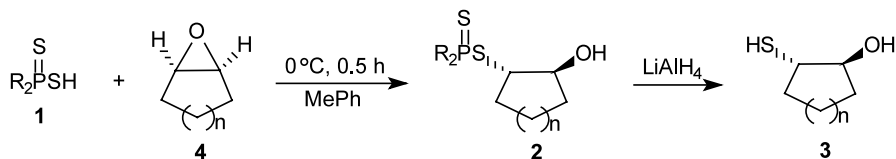


Regio- and stereoselective ring-opening of epoxides using organic dithiophosphorus acids as nucleophiles

Tetrahedron Letters 43 (2002) 7609

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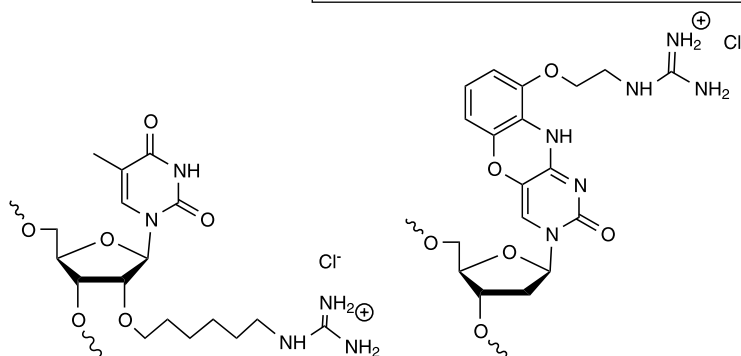


Postsynthetic guanidinylation of primary amino groups in the minor and major grooves of oligonucleotides

Tetrahedron Letters 43 (2002) 7613

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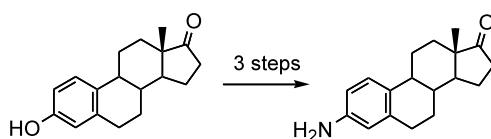


New efficient pathway for the synthesis of 3-aminoestrone

Tetrahedron Letters 43 (2002) 7617

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A facile conversion of a 3_{10} helical structure to a cyclic β -turn mimic in dehydrophenylalanine-derived small peptides through ring-closing metathesis

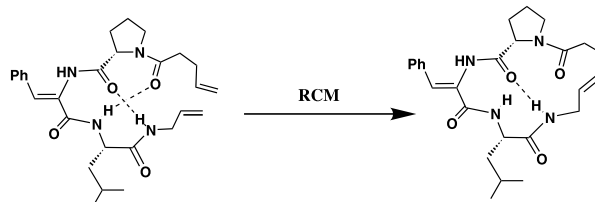
Tetrahedron Letters 43 (2002) 7621

T. V. R. S. Sastry,^b Biswadip Banerji,^a S. Kiran Kumar,^c A. C. Kunwar,^c Jagattaran Das,^b Jyoti Prokash Nandy^a and Javed Iqbal^{a,b,*}

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Synthesis and alkali cation extraction ability of 1,3-alt-thiacalix[4]mono(crown) ethers

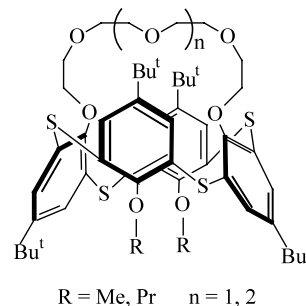
Tetrahedron Letters 43 (2002) 7627

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t-Butyl-thiacalix[4]mono(crown) ethers were synthesized for the first time and their alkali cation extractabilities were determined.

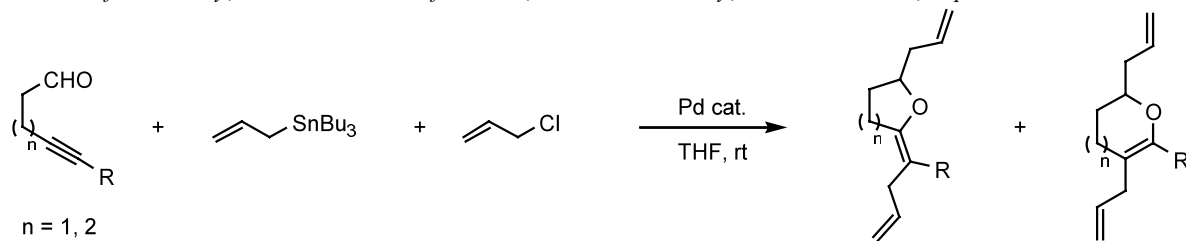


Tandem nucleophilic allylation–alkoxyallylation of alkynylaldehydes via amphiphilic bis- π -allylpalladium complexes

Tetrahedron Letters 43 (2002) 7631

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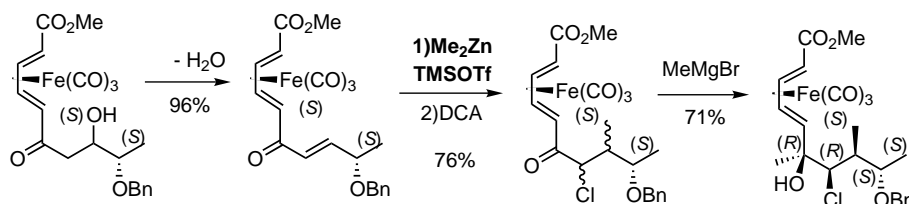


Conjugate addition of organozinc reagents to enones linked to a tricarbonyl iron diene unit. Asymmetric synthesis of a building block of amphotericin B

Tetrahedron Letters 43 (2002) 7635

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A short synthesis of aspergillamide B. The marine natural product from *Aspergillus* sp.

Tetrahedron Letters 43 (2002) 7639

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