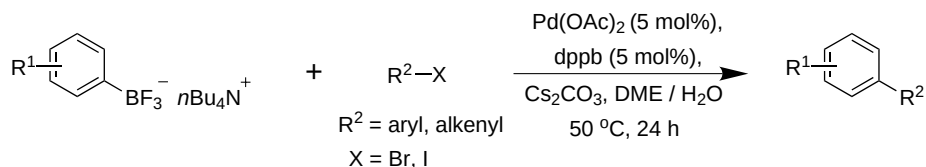


Synthesis and cross-coupling reactions of tetraalkylammonium organotrifluoroborate salts

Robert A. Batey* and Tan D. Quach

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

Tetrahedron Letters 42 (2001) 9099

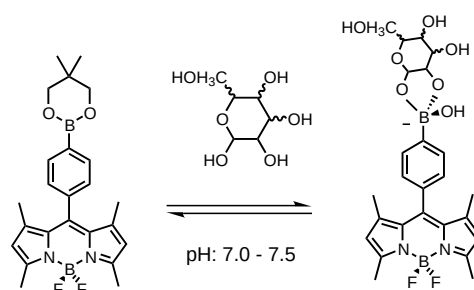


Fluorescent probe for monosaccharides based on a functionalized boron-dipyrromethene with a boronic acid group

Nicolas DiCesare and Joseph R. Lakowicz*

Center for Fluorescence Spectroscopy, University of Maryland,
School of Medicine, 725 W. Lombard St., Baltimore, MD 21201, USA

Tetrahedron Letters 42 (2001) 9105



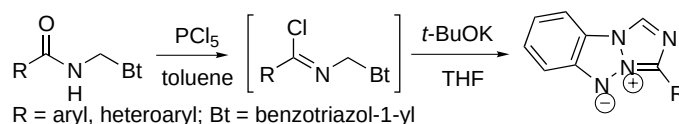
1,2,4-Triazolo[1,2-a]benzotriazoles: first examples of a novel ring system

Alan R. Katritzky,^{a,*} Tian-Bao Huang^a and Peter J. Steel^{b,*}

^aCenter for Heterocyclic Compounds, Department of Chemistry, University of Florida, Gainesville, FL 32611-7200, USA

^bDepartment of Chemistry, University of Canterbury, Christchurch, New Zealand

Tetrahedron Letters 42 (2001) 9109

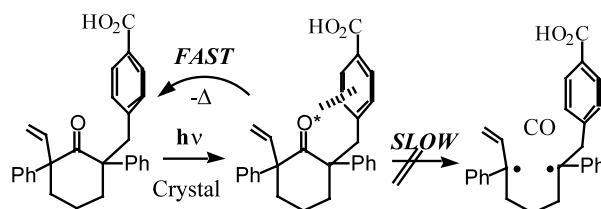


Engineering reactions in crystals: suppression of photodecarbonylation by intramolecular β -phenyl quenching

Danny Ng, Zhe Yang and Miguel A. Garcia-Garibay*

Department of Chemistry, University of California, Los Angeles, CA 90095-1569, USA

Tetrahedron Letters 42 (2001) 9113



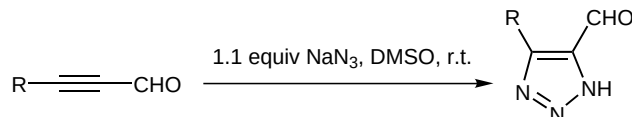
Highly efficient and mild synthesis of variously 5-substituted-4-carbaldehyde-1,2,3-triazole derivatives

Tetrahedron Letters 42 (2001) 9117

Michel Journet,* Dongwei Cai,* Jason J. Kowal and Robert D. Larsen

Department of Process Research, Merck Research Laboratories, PO Box 2000, RY800-B267, Rahway, NJ 07065-0900, USA

Synthesis of variously 5-substituted-4-carbaldehyde-1,2,3-triazoles was accomplished by reacting sodium azide with acetylenic aldehydes in DMSO at room temperature in quantitative yield.



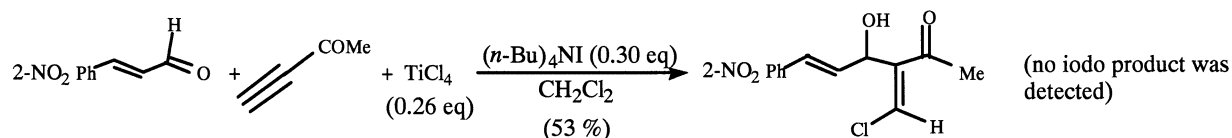
Substoichiometric TiCl₄-mediated vicinal difunctionalization of α,β -acetylenic ketones for the synthesis of β -halo Baylis-Hillman olefins

Tetrahedron Letters 42 (2001) 9119

Han-Xun Wei, Ju J. Gao and Guigen Li*

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

A substoichiometric amount of titanium tetrachloride was found to effectively promote and participate in the tandem α -hydroxyalkylation/ β -chlorination of α,β -acetylenic ketones in the presence of (*n*-Bu)₄Ni. This method provides the concise synthesis of (*E*)- β -halo Baylis-Hillman adducts. No β -iodo products were detected when using this combination of halogen sources.



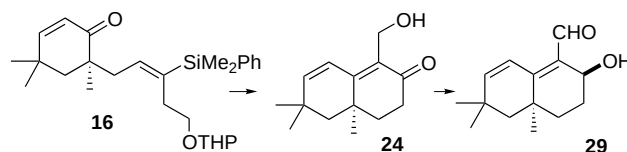
A novel extension of the Stork-Jung vinylsilane Robinson annelation procedure for the introduction of the cyclohexene of guanacastepene

Tetrahedron Letters 42 (2001) 9123

Barry B. Snider* and Bo Shi

Department of Chemistry MS 015, Brandeis University, Waltham MA 02454-9110, USA

A new Robinson annelation procedure leading to 2-hydroxymethyl-2-cyclohexenones is reported.



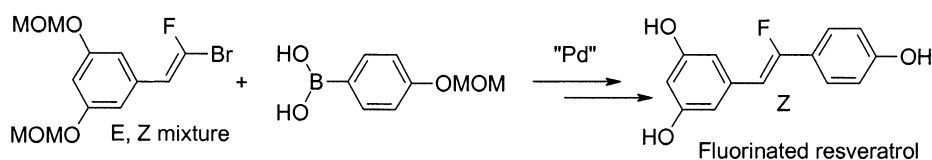
Fluorinated resveratrol and pterostilbene

Tetrahedron Letters 42 (2001) 9127

Said Eddarir,^{a,b} Zouanate Abdelhadi^b and Christian Rolando^{a,*}

^a*Université des Sciences et Technologies de Lille, UPRESA CNRS 8009, Chimie Organique et Macromoléculaire, 59655 Villeneuve d'Ascq Cedex, France*

^b*Université Cadi Ayyad, Faculté des Sciences et Technique Guéliz, BP 618 Marrakech, Maroc*



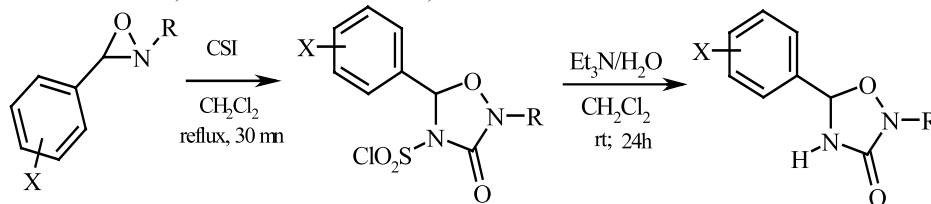
Synthesis of new 1,2,4-oxadiazolidin-3-ones by cycloaddition of 2-alkyl-3-aryloxaziridines with chlorosulfonylisocyanate

Tetrahedron Letters 42 (2001) 9131

Jamil Kraïem,^a Laurent Grosvalet,^b Monique Perrin^b and Béchir Ben Hassine^{a,*}

^aLaboratoire de Synthèse Organique Asymétrique et Catalyse Homogène, Faculté des Sciences de Monastir, Avenue de l'environnement, 5019 Monastir, Tunisia

^bLaboratoire de Cristallographie, CNRS UPRES A 5078, Reconnaissance et Organisation Moléculaire, Université Claude Bernard Lion 1, Bâti. 201, 43 Bd du 11 Novembre 1918, 69622 Villeurbanne Cedex, France



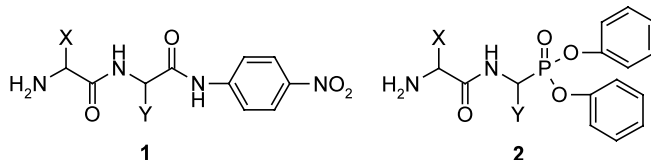
Polymer-assisted solution-phase parallel synthesis of dipeptide *p*-nitroanilides and dipeptide diphenyl phosphonates

Tetrahedron Letters 42 (2001) 9135

Kristel Senten, Pieter Van der Veken, Gunther Bal, Achiel Haemers and Koen Augustyns*

Department of Medicinal Chemistry, University of Antwerp (UIA), Universiteitsplein 1, B-2610 Antwerp, Belgium

This letter describes the parallel synthesis of dipeptide *p*-nitroanilides (**1**) and dipeptide diphenyl phosphonates (**2**). These compounds can be used as substrates and irreversible inhibitors for the rapid profiling of dipeptidyl peptidases.



Shaping calixarene frameworks. Synthesis and structure of a calix[8]arene containing three bridging phosphate units[DG1]

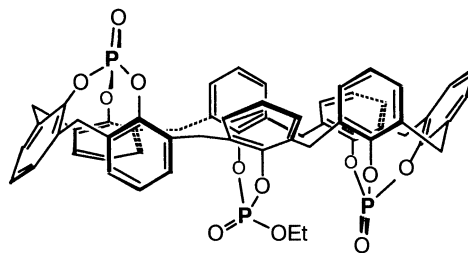
Tetrahedron Letters 42 (2001) 9139

Jörg Gloede,^{a,*} Sigrid Ozegowski,^a Dominique Matt^b and André De Cian^c

^aWITEGA-Adlershof, Angewandte Werkstoff-Forschung, Kekuléstr. 4, D-12489 Berlin, Germany

^bUniversité Louis Pasteur, Laboratoire de Chimie Inorganique Moléculaire, UMR 7513 CNRS, 1 rue Blaise Pascal, F-67008 Strasbourg Cedex, France

^cUniversité Louis Pasteur, Service de Cristallographie, 4 rue Blaise Pascal, F-67070 Strasbourg Cedex, France



A new selective fluorescence chemosensor for Cu(II) in water

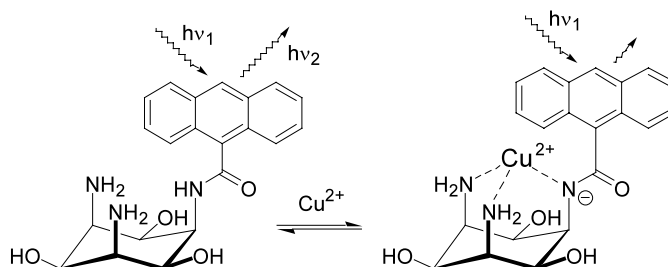
Tetrahedron Letters 42 (2001) 9143

Marta Beltramello,^a Maddalena Gatos,^a Fabrizio Mancin,^a Paolo Tecilla^{b,*} and Umberto Tonellato^{a,*}

^aDipartimento di Chimica Organica e Centro CNR Meccanismi di Reazioni Organiche, Università di Padova, Via Marzolo 1, I-35131 Padova, Italy

^bDipartimento di Scienze Chimiche, Università di Trieste, Via Licio Giorgieri 1, I-34127 Trieste, Italy

A new chemosensor for the Cu(II) ion has been realized. This sensor is able to detect micromolar concentrations of Cu(II) ion in water at pH 7 without interference with many other divalent transition metal ions.

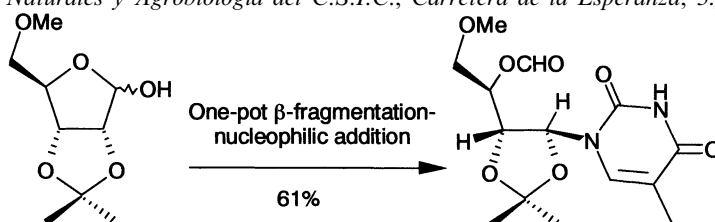


Synthesis of acyclic nucleosides and other C-1 substituted alditols from carbohydrates using a tandem alkoxyl radical β -fragmentation-nucleophilic addition

Tetrahedron Letters 42 (2001) 9167

Alicia Boto, Rosendo Hernández* and Ernesto Suárez*

Instituto de Productos Naturales y Agrobiología del C.S.I.C., Carretera de la Esperanza, 3.; 38206 La Laguna, Tenerife, Spain

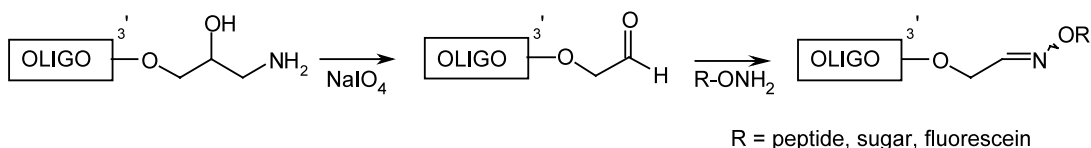


3'-Oligonucleotides conjugation via chemoselective oxime bond formation

Tetrahedron Letters 42 (2001) 9171

Damien Forget, Olivier Renaudet, Didier Boturyn, Eric Defrancq* and Pascal Dumy

LEDSS, UMR CNRS 5616, Université Joseph Fourier, BP 53, F-38041 Grenoble Cedex 9, France



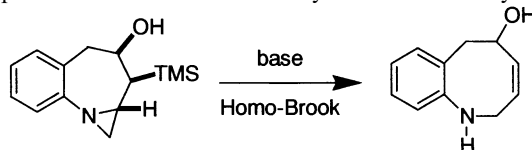
Homo-Brook route to benzazocenols and congeners via allylsilane-derived aziridines

Tetrahedron Letters 42 (2001) 9175

Richard Ducray,* Nicolai Cramer and Marco A. Ciufolini*

Laboratoire de Synthèse et Méthodologie Organiques (LSMO), UMR CNRS 5078, Université Claude Bernard Lyon 1 et Ecole Supérieure de Chimie, Physique, Electronique de Lyon, 43, Bd. du 11 Novembre 1918, 69622 Villeurbanne cedex, France

We describe a concise entry to benzazocenols that involves a homo-Brook rearrangement-ring-opening of a silylated aziridine. Benzazocenols are important intermediates in the synthesis of mitomycinoids.



Cleavage of immobilized disubstituted triazenes with electrophiles: solid-phase synthesis of alkyl halides and esters

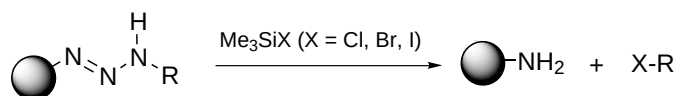
Tetrahedron Letters 42 (2001) 9179

Claudine Pilot,^a Stefan Dahmen,^a Frank Lauterwasser^b and Stefan Bräse^{b,*}

^a*RWTH Aachen, Institut für Organische Chemie, Professor-Pirlet-Strasse 1, D-52074 Aachen, Germany*

^b*Kekulé-Institut für Organische Chemie und Biochemie der Rheinischen Friedrich-Wilhelms-Universität Bonn, Gerhard-Domagk-Strasse 1, D-53121 Bonn, Germany*

A clean method for the synthesis of alkyl halides and esters from triazene resins is presented.

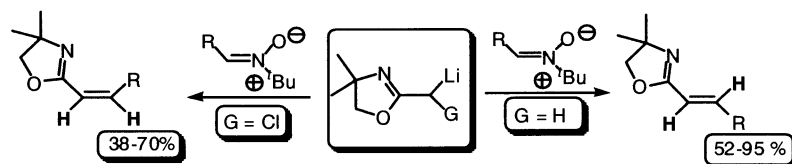


A highly stereoselective synthesis of α,β -unsaturated oxazolines

Tetrahedron Letters 42 (2001) 9183

Vito Capriati, Leonardo Degennaro, Saverio Florio* and Renzo Luisi

CNR, Centro di Studio sulle Metodologie Innovative di Sintesi Organiche, Dipartimento Farmaco-Chimico, Università di Bari, Via E. Orabona 4, I-70125 Bari, Italy



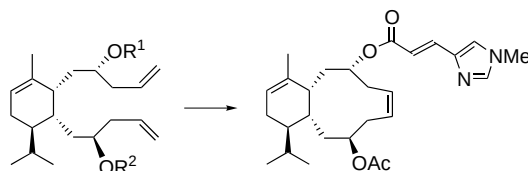
Synthesis of a simplified sarcodictyin analogue which retains microtubule stabilising properties

Tetrahedron Letters 42 (2001) 9187

Joachim Telser,^a Raphael Beumer,^a Andrew A. Bell,^a Simona M. Ceccarelli,^a Diego Monti^b and Cesare Gennari^{a,b,*}

^aDipartimento di Chimica Organica e Industriale, Università di Milano, via G. Venezian 21, I-20133 Milan, Italy

^bCentro CNR per lo Studio delle Sostanze Organiche Naturali, via G. Venezian 21, I-20133 Milan, Italy



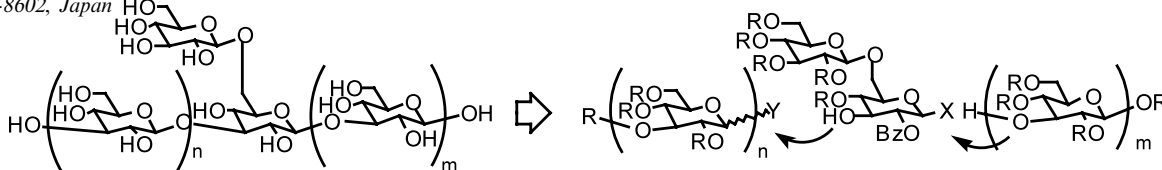
The first synthesis of tetraglucosyl glucitol having phytoalexin-elicitor activity in rice cells based on a sequential glycosylation strategy

Tetrahedron Letters 42 (2001) 9191

Toru Amaya,^a Hiroshi Tanaka,^a Takeshi Yamaguchi,^b Naoto Shibuya^b and Takashi Takahashi^{a,*}

^aDepartment of Applied Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology, 2-12-1 Ookayama, Meguro, Tokyo 152-8552, Japan

^bBiochemistry Department, Institute of Plant Sciences, National Institute of Agrobiological Sciences, 2-1-2 Kannondai, Tsukuba, Ibaraki 305-8602, Japan



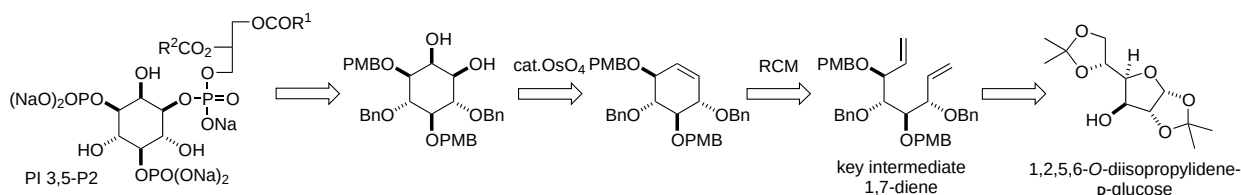
Synthesis of L- α -phosphatidyl-D-*myo*-inositol 3,5-bisphosphate from D-glucose

Tetrahedron Letters 42 (2001) 9195

Asuka Nishikawa,^{a,b} Shintaro Saito,^a Yuichi Hashimoto,^b Kenji Koga^a and Ryuichi Shirai^{a,*}

^aResearch and Education Center for Materials Science, Nara Institute of Science and Technology, 8916-5 Takayama-cho, Ikoma-shi, Nara 630-0101, Japan

^bInstitute of Molecular and Cellular Biosciences, The University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku, Tokyo 113-0032, Japan

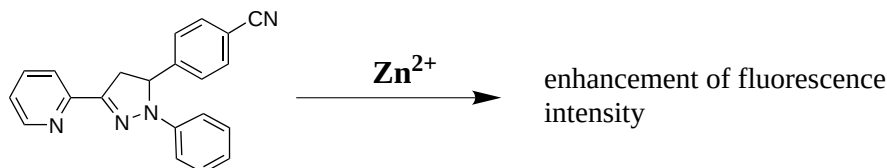


3-(2-Pyridyl)-2-pyrazoline derivatives: novel fluorescent probes for Zn²⁺ ion

Tetrahedron Letters 42 (2001) 9199

Pengfei Wang, Nobuko Onozawa-Komatsuzaki, Yuichiro Himeda, Hideki Sugihara, Hironori Arakawa and Kazuyuki Kasuga*

Photoreaction Control Research Center, National Institute of Advanced Industrial Science and Technology (AIST), AIST Tsukuba Central 5, 1-1-1 Higashi, Tsukuba, Ibaraki 305-8565, Japan



Formation of 1,2,4-trioxolanes via 9,10-dicyanoanthracene(DCA)-sensitized photo-oxygenation of 2,2-diaryl-3-(2,2-diarylvinyl)oxiranes

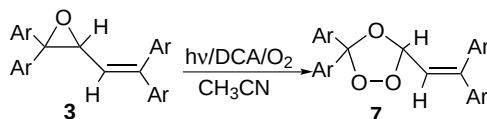
Tetrahedron Letters 42 (2001) 9203

Masaki Kamata,^{a,*} Ken-ichi Komatsu^a and Ryoichi Akaba^b

^a*Department of Chemistry, Faculty of Education and Human Science, Niigata University, Ikarashi, Niigata 950-2181, Japan*

^b*Department of Chemistry and Advanced Engineering Course, Gunma College of Technology, 580 Toriba-machi, Maebashi, Gunma 371-8530, Japan*

DCA-sensitized photo-oxygenation of oxiranes **3** afforded 1,2,4-trioxolanes **7**. The structural assignment and mechanism of the formation were proposed.

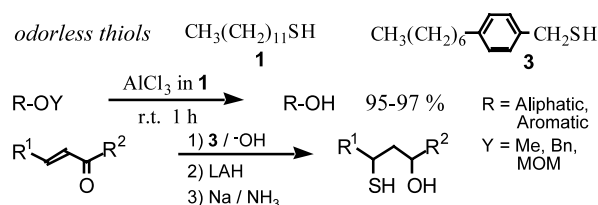


Odorless substitutes for foul-smelling thiols: syntheses and applications

Tetrahedron Letters 42 (2001) 9207

Manabu Node,^{*} Kamal Kumar, Kiyoharu Nishide, Shin-ichi Ohsugi and Tetsuo Miyamoto

Kyoto Pharmaceutical University, Misasagi, Yamashina, Kyoto 607-8414, Japan

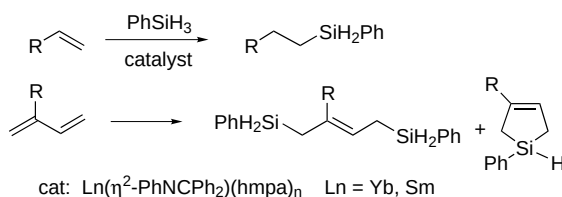


Hydrosilylation of olefins and dehydrogenative double silylation of conjugated dienes catalyzed by lanthanide-imine complexes

Tetrahedron Letters 42 (2001) 9211

Ken Takaki,^{*} Kentaro Sonoda, Takeshi Kousaka, Go Koshoji, Tetsuya Shishido and Katsuomi Takehira

Department of Chemistry and Chemical Engineering, Graduate School of Engineering, Hiroshima University, Kagamiyama, Higashi-Hiroshima 739-8527, Japan

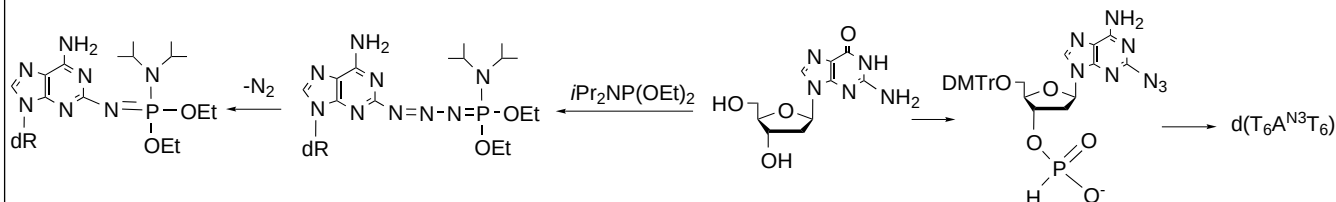


Synthesis and properties of 2-azidodeoxyadenosine and its incorporation into oligodeoxynucleotides

Tetrahedron Letters 42 (2001) 9215

Takeshi Wada, Akira Mochizuki, Seiichiro Higashiya, Hiroyuki Tsuruoka, Shun-ichi Kawahara, Masahide Ishikawa and Mitsuo Sekine*

Department of Life Science, Tokyo Institute of Technology, Nagatsuta, Midoriku, Yokohama 226-8501, Japan

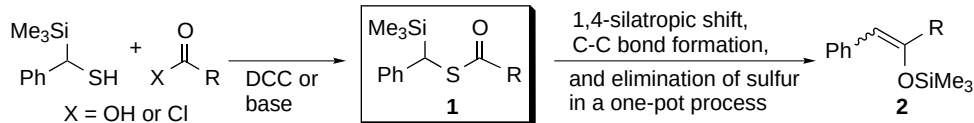


A novel synthesis of silyl enol ethers from α -silylbenzylthiols and carboxylic acid derivatives via C–C bond formation; thermal rearrangement of *S*- α -silylbenzyl thioesters

Tetrahedron Letters 42 (2001) 9221

Mitsuo Komatsu,* Choi Jinil, Eiichiro Imai, Yoji Oderaotoshi and Satoshi Minakata

Department of Applied Chemistry, Graduate School of Engineering, Osaka University, Suita, Osaka 565-0871, Japan



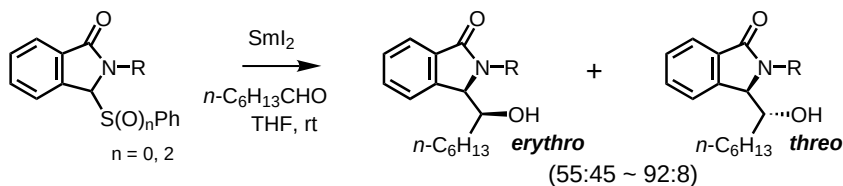
The method represents a new preparative method of silyl enol ethers under completely neutral conditions with no need for any catalyst or additives.

Sml_2 -promoted tandem desulfurization and reductive coupling reactions of aromatic lactams with carbonyl compounds

Tetrahedron Letters 42 (2001) 9225

Hidemi Yoda,* Yasuaki Ujihara and Kunihiro Takabe

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

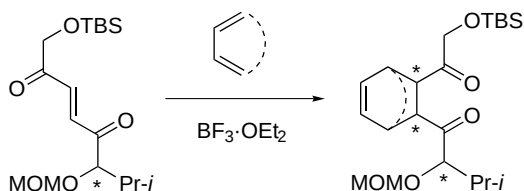


Site-recognition of one of the two alkoxy carbonyl groups present in the dienophile for Diels–Alder reaction

Tetrahedron Letters 42 (2001) 9229

Yuichi Kobayashi* and Yohei Kiyotsuka

Department of Biomolecular Engineering, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama 226-8501, Japan

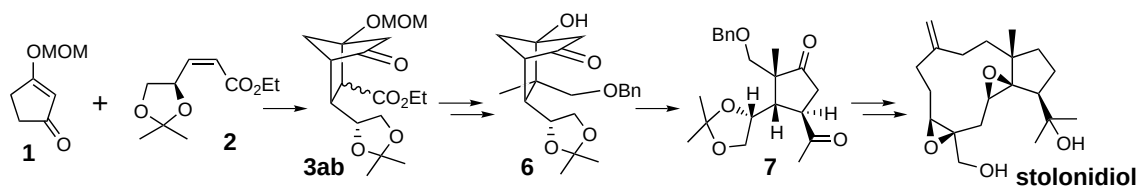


Total synthesis of marine diterpenoid stolonidiol

Tetrahedron Letters 42 (2001) 9233

Hiroaki Miyaoka, Tomohiro Baba, Hidemichi Mitome and
Yasuji Yamada*

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

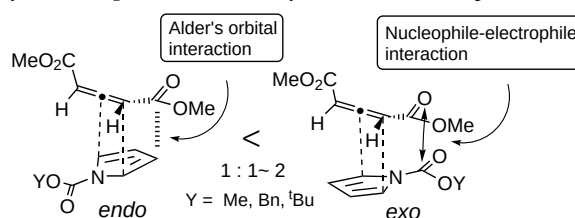


A novel attractive interaction in the Diels–Alder reaction of *N*-protected pyrroles with allene-1,3-dicarboxylates

Tetrahedron Letters 42 (2001) 9237

Kiyoharu Nishide, Shogo Ichihashi, Hiroyuki Kimura, Takahiro Katoh and Manabu Node*

Kyoto Pharmaceutical University, Misasagi, Yamashina, Kyoto 607-8414, Japan

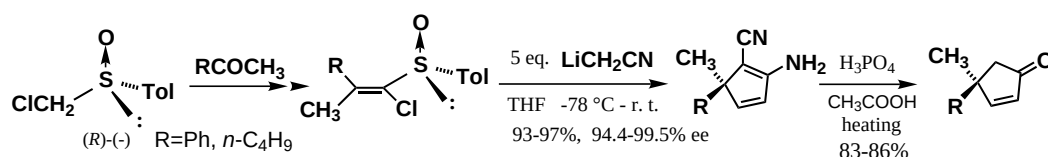


Asymmetric synthesis of 4,4-disubstituted 2-cyclopentenones from optically active 1-chlorovinyl *p*-tolyl sulfoxides and cyanomethyl-lithium with formation of a quaternary chiral center

Tetrahedron Letters 42 (2001) 9241

Tsuyoshi Satoh,* Masaaki Yoshida and Hiroyuki Ota

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

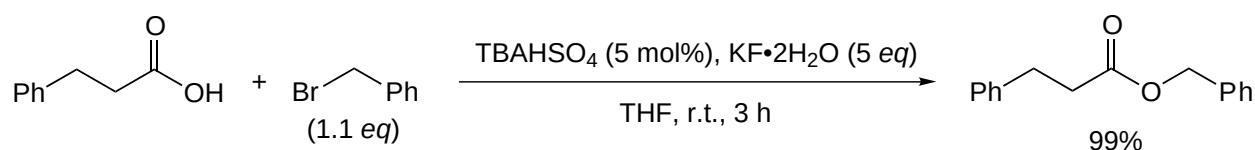


Esterification of carboxylic acids catalyzed by in situ generated tetraalkylammonium fluorides

Tetrahedron Letters 42 (2001) 9245

Takashi Ooi, Hayato Sugimoto, Kanae Doda and Keiji Maruoka*

Department of Chemistry, Graduate School of Science, Kyoto University, Sakyo, Kyoto 606-8502, Japan

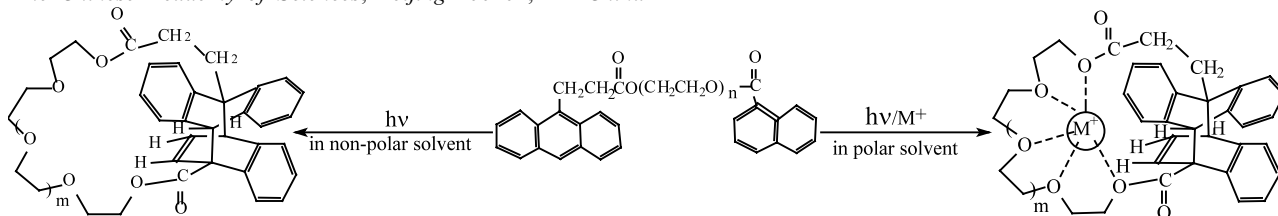


Enhancement of photoinduced intramolecular cross-cycloaddition of α -(9-anthryl)- ω -(1-naphthoyl) end-labeled poly(ethylene glycol) via lipophobic interactions and complexation with metal cations

Tetrahedron Letters 42 (2001) 9249

Ming Xu, Li-Zhu Wu,* Li-Ping Zhang and Chen-Ho Tung*

Dewai, Beishatan, Datun Road Jia 3 #, Chaoyang District, Technical Institute of Physics and Chemistry, The Chinese Academy of Sciences, Beijing 100101, PR China



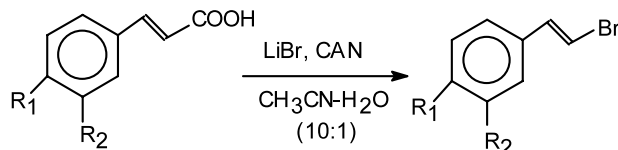
A mild and efficient method for oxidative halodecarboxylation of α,β -unsaturated aromatic acids using lithium bromide/chloride and ceric ammonium nitrate

Tetrahedron Letters 42 (2001) 9253

Subhas Chandra Roy,^{a,*} Chandrani Guin^a and Gourhari Maiti^b

^aDepartment of Organic Chemistry, Indian Association for the Cultivation of Science Jadavpur, Calcutta 700 032, India

^bDepartment of Chemistry, Jadavpur University, Jadavpur, Calcutta 700 032, India



A method for the one-pot regioselective folding of the heat-stable bacterial enterotoxin ST peptide residues 5–18

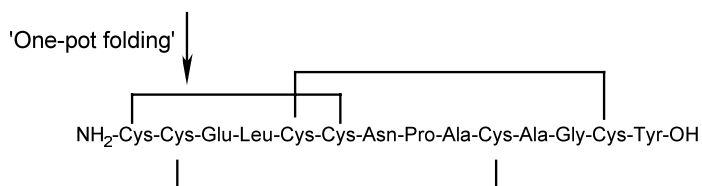
Tetrahedron Letters 42 (2001) 9257

Alan Cuthbertson,^{a,*} Elisabeth Jarnæss^a and Shirley Pullan^b

^aDepartment of Exploratory Research, Amersham Health AS, Oslo, Norway

^bDepartment of Biology, Amersham Health, The Grove Centre, Amersham, Buckinghamshire HP7 9LL, UK

NH₂-Cys(tBu)-Cys-Glu-Leu-Cys(4-MeBn)-Cys(tBu)-Asn-Pro-Ala-Cys-Ala-Gly-Cys(4-MeBn)-Tyr-OH



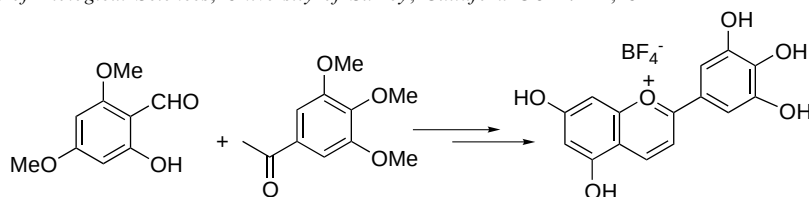
Boron trifluoride-etherate mediated synthesis of 3-desoxy-anthocyanidins including a total synthesis of tricetanidin from black tea

Tetrahedron Letters 42 (2001) 9261

Nikolai Kuhnert,^{a,*} Mike N. Clifford^b and Anne-Gaëlle Radenac^a

^aSynthetic Biological and Organic Chemistry Laboratory, Department of Chemistry, University of Surrey, Guildford GU2 7XH, UK

^bFood Safety Group, School of Biological Sciences, University of Surrey, Guildford GU2 7XH, UK

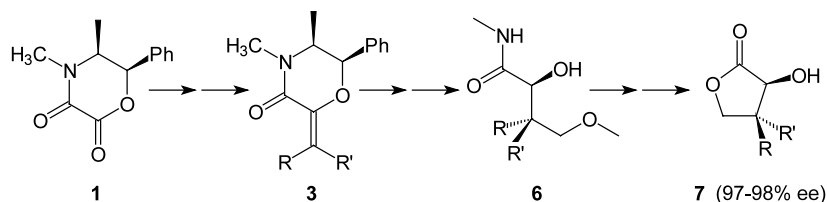


Enantioselective synthesis of β,β -dialkyl α -hydroxy γ -butyrolactones

Tetrahedron Letters 42 (2001) 9265

Sunil V. Pansare* and Annyt Bhattacharyya

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

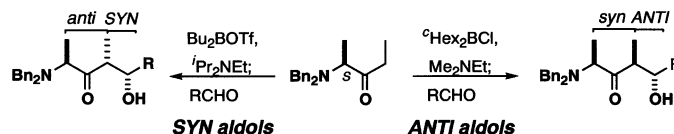


Boron-mediated aldol reactions of ethyl α -(*N,N*-dibenzylamino) ketones: control of enolisation geometry and aldehyde π -facial selectivity

Tetrahedron Letters 42 (2001) 9269

Ian Paterson* and Angela C. Mackay

University Chemical Laboratory, Lensfield Road, Cambridge CB2 1EW, UK



Wainunuamide, a histidine-containing proline-rich cyclic heptapeptide isolated from the Fijian marine sponge *Stylotella aurantium*

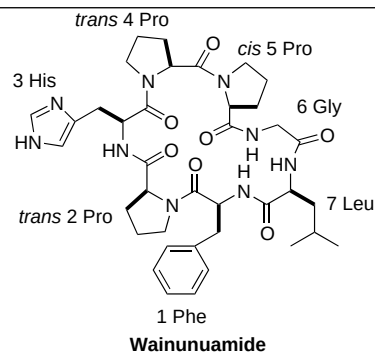
Tetrahedron Letters 42 (2001) 9273

Jioji Tabudravu,^a Linda A. Morris,^a J. Jantina Kettenes-van den Bosch^b and Marcel Jaspars^{a,*}

^a*Marine Natural Products Laboratory, Department of Chemistry, University of Aberdeen, Old Aberdeen AB24 3UE, UK*

^b*Department of Biomolecular Mass Spectrometry, Utrecht Institute for Pharmaceutical Sciences (UIPS) and Bijvoet Centre for Biomolecular Research, Utrecht University, Sorbonnelaan 16, 3584CA Utrecht, The Netherlands*

The isolation and structure determination of an unusual cyclic heptapeptide, wainunuamide, from a Fijian marine sponge, *Stylotella aurantium*, is reported.



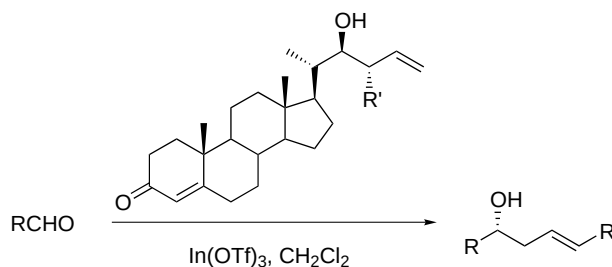
Homoallylic sterol/indium(III) Lewis acid: a novel enantioselective allylation system exhibiting α -regioselectivity

Tetrahedron Letters 42 (2001) 9277

Teck-Peng Loh,* Qi-Ying Hu, Yew-Keong Chok and Kui-Thong Tan

Department of Chemistry, National University of Singapore, 3 Science Drive 3, Singapore 117543

A homoallylic sterol/indium(III) Lewis acid reagent system was utilized for the enantioselective and α -regioselective allylation of various aldehydes.



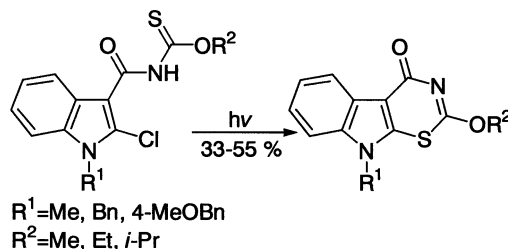
A new photocyclization approach to the rare 1,3-thiazino[6,5-*b*]-indol-4-one derivatives

Tetrahedron Letters 42 (2001) 9281

Peter Kutschy,^a Mojmir Suchý,^{a,*} Aldo Andreani,^b
Milan Dzurilla^a and Maddalena Rossi^b

^aDepartment of Organic Chemistry, Faculty of Science,
P. J. Šafárik University, Moyzesova 11, 041 67 Košice, Slovak Republic

^bDepartment of Pharmaceutical Sciences, University of Bologna,
Via Belmeloro 6, I-40126 Bologna, Italy

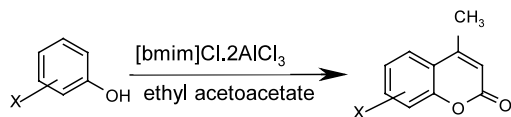


Coumarin syntheses via Pechmann condensation in Lewis acidic chloroaluminate ionic liquid

Tetrahedron Letters 42 (2001) 9285

Mahesh K. Potdar, Swapnil S. Mohile and Manikrao M. Salunkhe*

Department of Chemistry, The Institute of Science, 15 Madam Cama Road, Mumbai 400 032, India

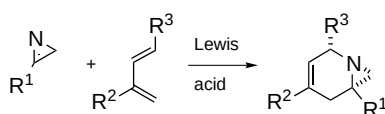


Lewis acid-catalyzed hetero Diels–Alder cycloadditions of 3-alkyl, 3-phenyl and 3-carboxylated 2*H*-azirines

Tetrahedron Letters 42 (2001) 9289

Colin A. Ray, Erik Risberg and Peter Somfai*

Organic Chemistry, Department of Chemistry, The Royal Institute of Technology, S-100 44 Stockholm, Sweden



Application of organolithium and related reagents in synthesis. Part 25: Novel specific synthesis of the 4-arylisochroman-3-acetic acids via conversion of benzoic acids

Tetrahedron Letters 42 (2001) 9293

Adam Bieniek, Jan Epsztajn,* Justyna A. Kowalska and Zbigniew Malinowski

Department of Organic Chemistry, Institute of Chemistry, University of Lodz, 90-136 Lodz, Narutowicza 68, Poland

The transformation of the benzoic acids into 4-arylisochroman-3-acetic acids is described.

