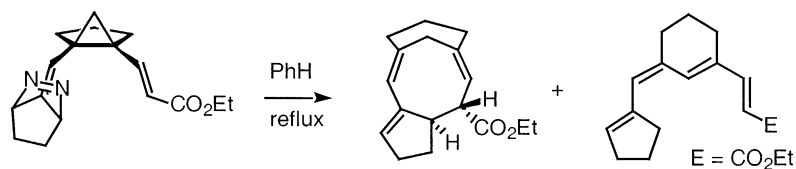
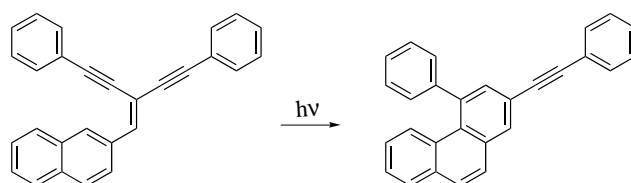


Vinylcyclopropyl TMM diyls: access to eight-membered rings*Tetrahedron Letters 42 (2001) 4095*

Peter Jay Mikesell and R. Daniel Little*

Department of Chemistry and Biochemistry, University of California Santa Barbara, Santa Barbara, CA 93106, USA**Photocyclization of a conjugated triaryl 'Y-enyne'***Tetrahedron Letters 42 (2001) 4099*

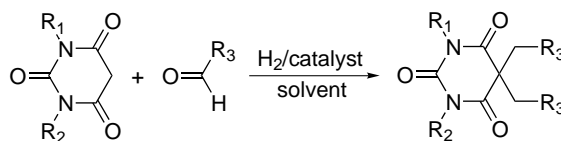
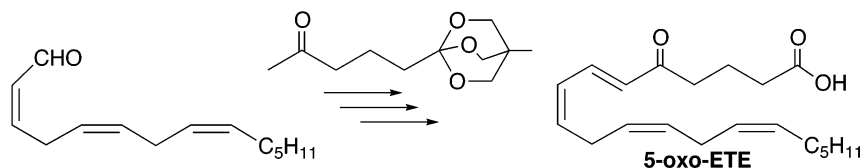
Bilal R. Kaafarani and Douglas C. Neckers*

Center for Photochemical Sciences, Bowling Green State University, Bowling Green, OH 43403, USA**Reductive C-alkylation of barbituric acid derivatives with carbonyl compounds in the presence of platinum and palladium catalysts***Tetrahedron Letters 42 (2001) 4103*

Branko S. Jursic* and Donna M. Neumann

Department of Chemistry, University of New Orleans, New Orleans, LA 70148, USA

A general synthetic procedure for the preparation of a wide variety of larger barbituric acids through catalytic reductive alkylation of smaller barbituric acids with carbonyl compounds is described.

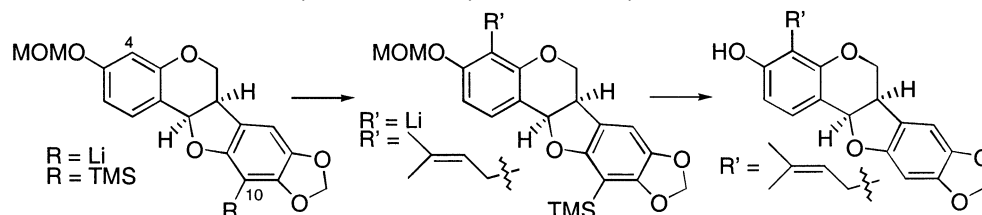
**Efficient total synthesis of 5-oxo-6(E),8(Z),11(Z),14(Z)-eicosatetraenoic acid (5-oxo-E TE), a potent proinflammatory autacoid***Tetrahedron Letters 42 (2001) 4109*Suchismita Mohapatra,^a Jorge H. Capdevila,^b Robert C. Murphy,^c John M. Hevko^c and J. R. Falck^{a,*}^a*Department of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX 75390, USA*^b*Departments of Medicine and Biochemistry, Vanderbilt University School of Medicine, Nashville, TN 37232, USA*^c*Department of Pediatrics, National Jewish Center for Immunology and Respiratory Medicine, Denver, CO 80206, USA*

Regioselective lithiations of a pterocarpan skeleton: the first synthesis of (\pm)-4'-dehydroxycabenegrin A-I

Tetrahedron Letters 42 (2001) 4111

Alessandro B. C. Simas,* Alcides J. M. da Silva, Antonio L. Coelho and Paulo R. R. Costa*

Universidade Federal do Rio de Janeiro, Núcleo de Pesquisas de Produtos Naturais, Laboratório de Química Bioorgânica, CCS, bl. H, Ilha da Cidade Universitária, Rio de Janeiro, RJ 21941-590, Brazil

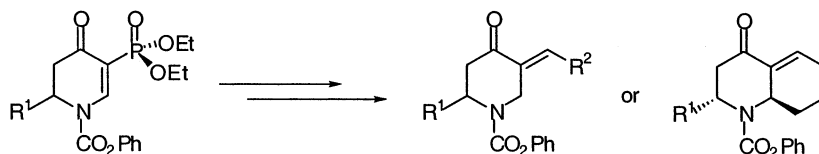


Inter- and intramolecular Horner–Wadsworth–Emmons reactions of 5-(diethoxyphosphoryl)-1-acyl-2-alkyl(aryl)-2,3-dihydro-4-pyridones

Tetrahedron Letters 42 (2001) 4115

Daniel L. Comins* and Christian G. Ollinger

Department of Chemistry, North Carolina State University, Raleigh, NC 27695-8204, USA

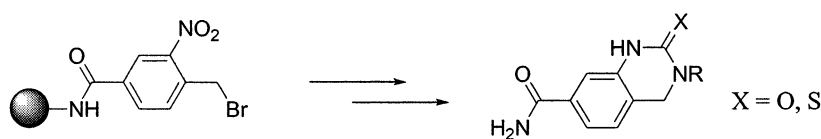


Solid-phase synthesis of 3,4-dihydro-2(1H)-quinazolinones and 3,4-dihydro-1H-quinazolin-2-thiones

Tetrahedron Letters 42 (2001) 4119

Qun Sun,* Xiaoming Zhou and Donald J. Kyle

Department of Computational, Combinatorial and Medicinal Chemistry, Purdue Pharma LP, 7 Clarke Drive, Cranbury, NJ 08512, USA

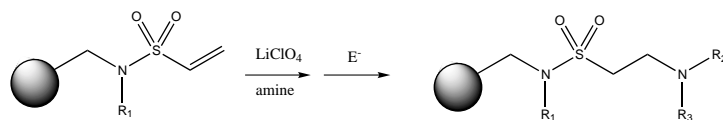


Michael addition of amines to vinyl sulfonamides on solid support

Tetrahedron Letters 42 (2001) 4123

Gergely M. Makara* and Yao Ma

NeoGenesis Drug Discovery, Inc., 840 Memorial Drive, Cambridge, MA 02139, USA



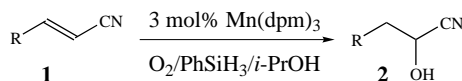
Direct conversion of α,β -unsaturated nitriles into cyanohydrins using $\text{Mn}(\text{dpm})_3$ catalyst, dioxygen and phenylsilane

Tetrahedron Letters 42 (2001) 4127

Philip Magnus,* David A. Scott and Mark R. Fielding

Department of Chemistry and Biochemistry, University of Texas at Austin, Austin, TX 78712, USA

Treatment of α,β -unsaturated nitriles **1** with $\text{Mn}(\text{dpm})_3$ (cat.), phenylsilane in isopropyl alcohol in the presence of air resulted in the formation of cyanohydrins **2**.



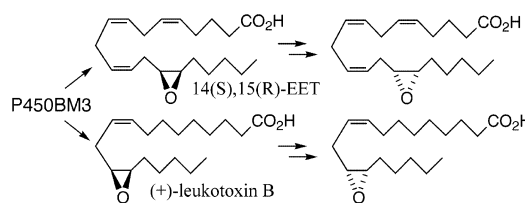
Practical, enantiospecific syntheses of 14,15-EET and leukotoxin B (vernolic acid)

Tetrahedron Letters 42 (2001) 4131

J. R. Falck,* Y. Krishna Reddy, Donovan C. Haines, Komandla Malla Reddy, U. Murali Krishna, Sandra Graham, Barbara Murry and Julian A. Peterson

Department of Biochemistry, University of Texas Southwestern Medical Center, Dallas, TX 75390-9038, USA

Cytochrome P450BM3 and its F87V mutant were exploited for a convenient, laboratory scale (1 mmol) preparation of 14(*S*),15(*R*)-EET from arachidonic acid and (+)-leukotoxin B from linoleic acid, respectively. Their enantiomers were accessed via a four-step chemical inversion.



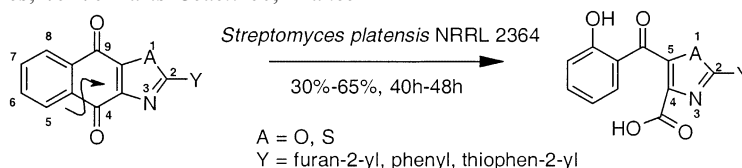
A biosynthetic microbial ability applied for the oxidative ring cleavage of non-natural heterocyclic quinones

Tetrahedron Letters 42 (2001) 4135

Laurence Le Texier,^{a,*} Sébastien Roy,^a Céline Fosse,^b Michel Neuwels^a and Robert Azerad^b

^aLaboratoires INNOTHERA, Département de Chimie Recherche, Unité de Bioconversions, 10 avenue Paul-Vaillant Couturier, BP 35, 94111 Arcueil Cedex, France

^bLaboratoire de Chimie et Biochimie Pharmacologiques et Toxicologiques, UMR 8601, Université René Descartes–Paris V, 45 rue des Saints Pères, 75270 Paris Cedex 06, France



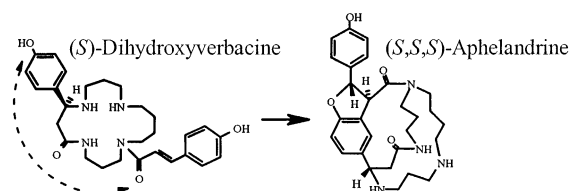
New reagent for oxidative phenol coupling. The transformation of the monocyclic spermine base (*S*)-dihydroxyverbacine to the bicyclic alkaloid (*S,S,S*)-aphelandrine by cell free extract of barley seedlings

Tetrahedron Letters 42 (2001) 4139

Lenka Nezbedová, Manfred Hesse, Konstantin Drandarov and Christa Werner*

Organisch-chemisches Institut der Universität Zürich, Winterthurerstrasse 190, 8057 Zürich, Switzerland

The soluble protein fraction of barley seedlings stereoselectively catalyzes the intramolecular phenol coupling of the monocyclic spermine base (*S*)-dihydroxyverbacine to the bicyclic alkaloid aphelandrine in preparative yield.

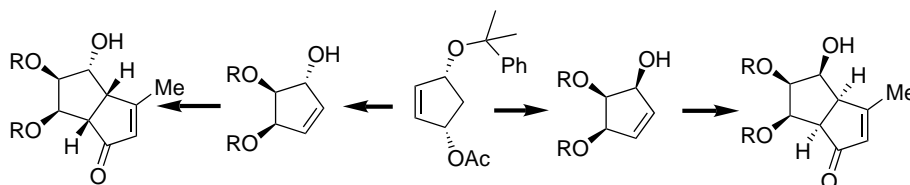


Annulation of 3-methylcyclopentenone onto a cyclopentenol double bond by intramolecular Pauson–Khand reaction

Tetrahedron Letters 42 (2001) 4143

Rika Muto and Kunio Ogasawara*

Pharmaceutical Institute, Tohoku University, Aobayamar, Sendai 980-8578, Japan



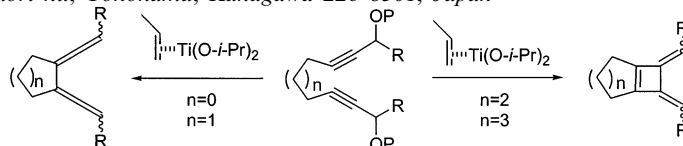
Titanium-mediated intramolecular cyclization of tethered propargyl alcohol derivatives. Access to exocyclic bis-allenes and cyclobutene derivatives

Tetrahedron Letters 42 (2001) 4147

Christophe Delas,^a Hirokazu Urabe^b and Fumie Sato^{a,*}

^a*Department of Biomolecular Engineering, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama, Kanagawa 226-8501, Japan*

^b*Department of Biological Information, Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology, 4259 Nagatsuta-cho, Midori-ku, Yokohama, Kanagawa 226-8501, Japan*

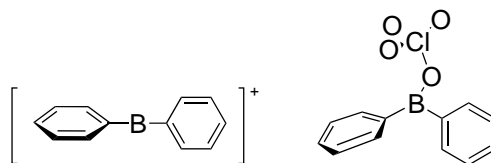


Is diphenylboronium perchlorate in nitromethane ionic?

Tetrahedron Letters 42 (2001) 4151

Syun-ichi Kiyooka,* Ryoji Fujiyama,* Takatomo Kawai, Hiroshi Fujimoto and Kazuki Goh

Department of Chemistry, Faculty of Science, Kochi University, Akebono-cho 2-5-1, Kochi 780-8520, Japan



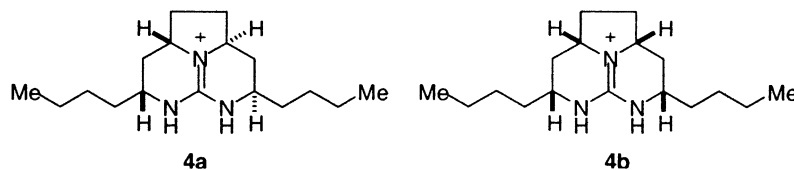
Stereoselective synthesis of tricyclic guanidine systems: confirmation of the stereochemistry of batzelladine F left-hand tricyclic guanidine portion

Tetrahedron Letters 42 (2001) 4155

Kazuo Nagasawa,* Hiroyuki Koshino and Tadashi Nakata

RIKEN (The Institute of Physical and Chemical Research), Hirosawa 2-1, Wako, Saitama 351-0198, Japan

Stereoselective syntheses of **4a** and **4b** are described.

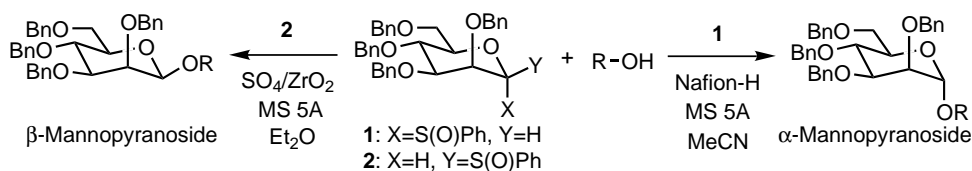


Novel stereocontrolled α - and β -glycosidations of mannopyranosyl sulfoxides using environmentally benign heterogeneous solid acids

Tetrahedron Letters 42 (2001) 4159

Hideyuki Nagai, Kanako Kawahara, Shuichi Matsumura and Kazunobu Toshima*

Department of Applied Chemistry, Faculty of Science and Technology, Keio University, 3-14-1 Hiyoshi, Kohoku-ku, Yokohama 223-8522, Japan



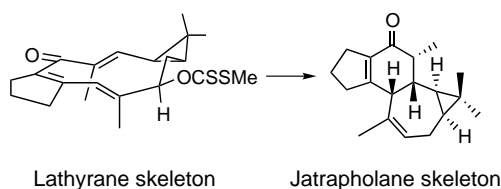
Efforts towards the synthesis of jatrofolane diterpenes: a biomimetic transannular reaction approach

Tetrahedron Letters 42 (2001) 4163

Tomoo Matsuura,^a Yukimasa Terada^b and Shosuke Yamamura^{a,*}

^a*Department of Chemistry, Faculty of Science and Technology, Keio University, Yokohama 223-8522, Japan*

^b*Faculty of Pharmacy, Meijo University, Nagoya 468-8503, Japan*

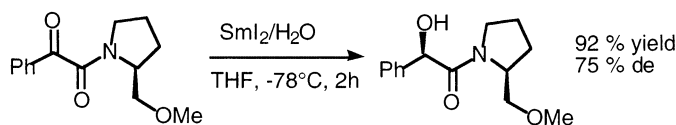


Diastereoselective reduction and carbon-carbon bond formation of α -keto esters/amides with SmI_2

Tetrahedron Letters 42 (2001) 4167

Shin-ichi Fukuzawa,* Manabu Miura and Hiroshi Matsuzawa

Department of Applied Chemistry, Institute of Science and Engineering, Chuo University, Kasuga, Bunkyo-ku, Tokyo 112-8551, Japan

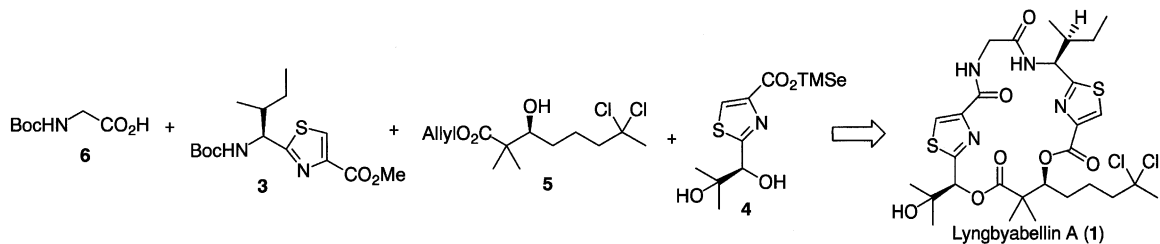


Total synthesis of lyngbyabellin A, a potent cytotoxic metabolite from the marine cyanobacterium *Lyngbya majuscula*

Tetrahedron Letters 42 (2001) 4171

Fumiaki Yokokawa,* Hirofumi Sameshima and Takayuki Shioiri

Faculty of Pharmaceutical Sciences, Nagoya City University, Tanabe-dori, Mizuho-ku, Nagoya 467-8603, Japan

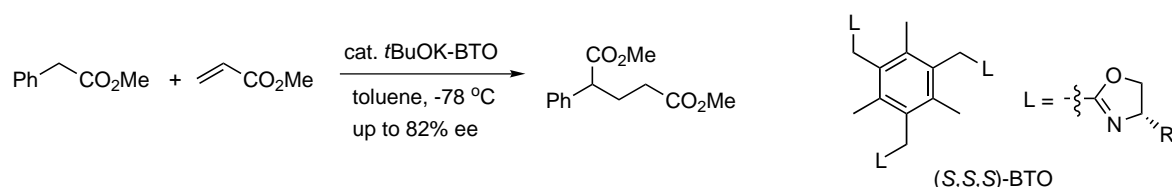


Enantioselective Michael addition catalyzed by chiral tripodal oxazoline-*t*BuOK complexes

Tetrahedron Letters 42 (2001) 4175

Sung-Gon Kim and Kyo Han Ahn*

Department of Chemistry and Center for Integrated Molecular Systems, Division of Molecular and Life Sciences, Pohang University of Science and Technology, San 31 Hyoja-dong, Pohang 790-784, Republic of Korea



Micromonospolide A, a new macrolide from *Micromonospora* sp.

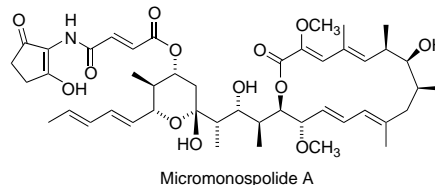
Tetrahedron Letters 42 (2001) 4179

Emi Ohta,^a Shinji Ohta,^{a,*} Natsuki K. Kubota,^a Makoto Suzuki,^b Tatsuhiro Ogawa,^b Akiko Yamasaki^c and Susumu Ikegami^{c,*}

^aInstrument Center for Chemical Analysis, Hiroshima University, 1-3-1 Kagamiyama, Higashi-Hiroshima 739-8526, Japan

^bTokyo Research Laboratories, Kyowa Hakko Kogyo Co., 3-6-6 Asahi-machi, Machida, Tokyo 194-8533, Japan

^cDepartment of Applied Biochemistry, Hiroshima University, 1-4-4 Kagamiyama, Higashi-Hiroshima 739-8528, Japan



Micromonospolide A

First synthesis of stable 5-alkyl- or 4,5-dialkyl-substituted 1,2-thiazinylium salt

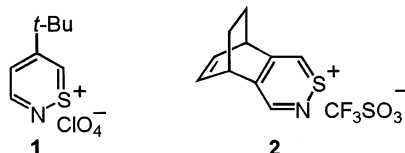
Tetrahedron Letters 42 (2001) 4183

Hiroshi Shimizu,^{a,*} Naoyuki Okada^b and Mitsuhiro Yoshimatsu^b

^aGifu Pharmaceutical University, 6-1, Mitahora-higashi 5-chome, Gifu 502-8585, Japan

^bDepartment of Chemistry, Faculty of Education, Gifu University, Yanagido 1-1, Gifu 501-1193, Japan

The novel 5-*t*-butyl (1) and 5,8-ethano-5,8-dihydrobenzo[*d*]-1,2-thiazinylium salts (2) were synthesized from the corresponding 5*H*-1,2-thiazines.



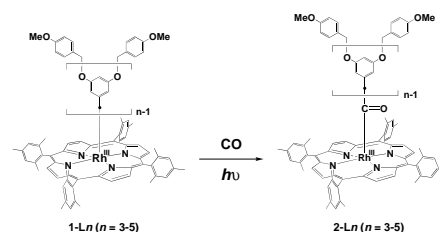
Carbon-centered dendritic radicals: photoinduced reaction of poly(benzyl ether) dendrons σ -bonded to a rhodium(III) porphyrin focal core

Tetrahedron Letters 42 (2001) 4187

Shu-ichi Kimata and Takuzo Aida*

Department of Chemistry and Biotechnology, Graduate School of Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-8656, Japan

Poly(benzyl ether) dendrons σ -bonded by the focal dialkoxybenzyl unit to a rhodium(III) porphyrin functionality (1-*L*_{*n*}, *n* = 1, 3–5) were synthesized as novel carbon-centered free radical equivalents. A clear ‘dendrimer effect’ was observed for the reaction profile of the highest-generation 1-*L*₅ upon excitation with visible light in a carbon monoxide atmosphere.



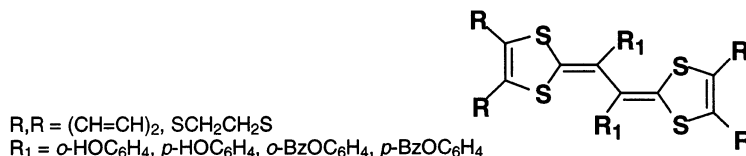
Hydroxyphenyl substituted tetrathiafulvalene vinylologues affording stable cation radical salts with unusual crystal structures

Tetrahedron Letters 42 (2001) 4191

Yoshiro Yamashita,^{a,*} Masaaki Tomura^b and Kenichi Imaeda^b

^aDepartment of Electronic Chemistry, Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology, Nagatsuta, Midori-ku, Yokohama 226-8502, Japan

^bInstitute for Molecular Science, Myodaiji, Okazaki 444-8585, Japan

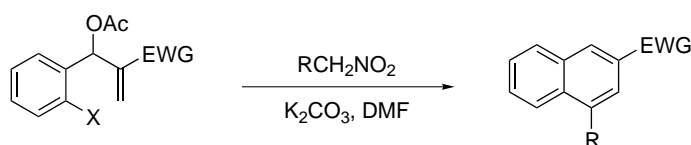


An expedient synthesis of 2-substituted naphthalenes from the Baylis–Hillman adducts

Tetrahedron Letters 42 (2001) 4195

Jae Nyoung Kim,^{*} Yang Jin Im, Ji Hyeon Gong and Ka Young Lee

Department of Chemistry, Chonnam National University, Kwangju 500-757, South Korea



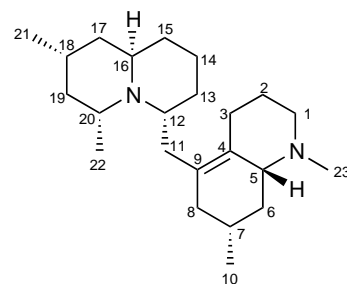
Senepodine A, a novel C₂₂N₂ alkaloid from *Lycopodium chinense*

Tetrahedron Letters 42 (2001) 4199

Hiroshi Morita, Yusuke Hirasawa, Naotoshi Yoshida and Jun'ichi Kobayashi^{*}

Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo 060-0812, Japan

A new class of C₂₂N₂ *Lycopodium* alkaloid consisting of an octahydroquinoline and a quinolizidine ring, senepodine A (**1**), has been isolated from the club moss *Lycopodium chinense*.



Improved method for the synthesis of (*E*)-cyclic- β -alkoxyacrylates under mild conditions

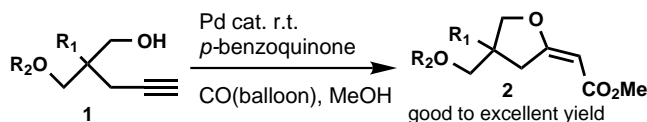
Tetrahedron Letters 42 (2001) 4203

Keisuke Kato,^{a,*} Akira Nishimura,^a Yasuhiro Yamamoto^b and Hiroyuki Akita^{a,*}

^aSchool of Pharmaceutical Sciences, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan

^bDepartment of Chemistry, Faculty of Science, Toho University, 2-2-1 Miyama, Funabashi, Chiba 274-8510, Japan

Palladium-catalyzed cyclization–methoxycarbonylation of cyclic- and acyclic-4-yn-1-ols **1** under mild conditions afforded (*E*)-cyclic- β -alkoxyacrylates **2** in good to excellent yields.

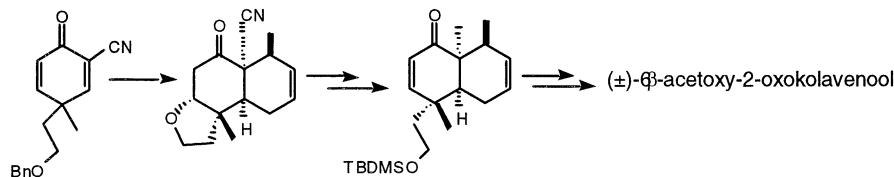


An improved general synthetic approach to *cis*-clerodane diterpenoids. A more efficient total synthesis of (\pm)-6 β -acetoxy-2-oxokolavenool

Tetrahedron Letters 42 (2001) 4207

Jen-Dar Wu, Kak-Shan Shia and Hsing-Jang Liu*

Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan 30043, ROC

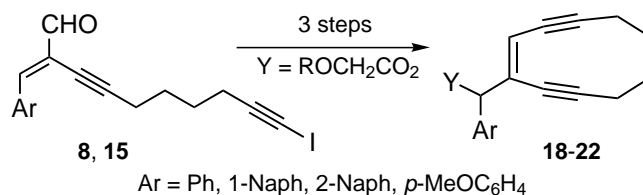


Intramolecular Nozaki–Hiyama–Kishi reactions and Ln(III)-catalyzed allylic rearrangement as the key steps towards 10-membered ring enediynes

Tetrahedron Letters 42 (2001) 4211

Wei-Min Dai,* Anxin Wu and Wataru Hamaguchi

Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China

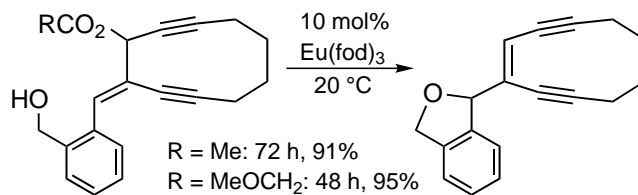


Neighboring nucleophilic group assisted rearrangement of allylic esters under Eu(fod)₃ catalysis

Tetrahedron Letters 42 (2001) 4215

Wei-Min Dai,* Anxin Wu, Mavis Yuk Ha Lee and Kwong Wah Lai

Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong SAR, China

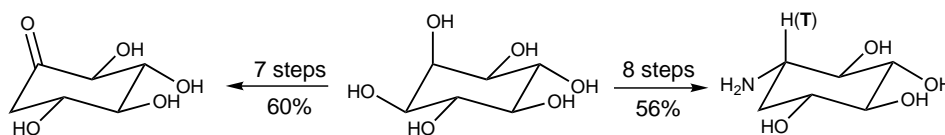


Convenient synthesis of 2-deoxy-*scyllo*-inosose and 2-deoxy-*scyllo*-inosamine: two key intermediates on the biosynthetic pathway to aminoglycoside antibiotics

Tetrahedron Letters 42 (2001) 4219

Jinquan Yu and Jonathan B. Spencer*

Department of Chemistry, University of Cambridge, Lensfield Road, Cambridge CB2 1EW, UK



A stopperless tetrathiafulvalene based [2]pseudorotaxane molecular shuttle

Tetrahedron Letters 42 (2001) 4223

Martin R. Bryce,^a Graeme Cooke,^{b,*} Wayne Devonport,^a Florence M. A. Duclairoir^b and Vincent M. Rotello^c

^aDepartment of Chemistry, University of Durham, South Road, Durham DH1 3LE, UK

^bDepartment of Chemistry, Heriot-Watt University, Riccarton, Edinburgh EH14 4AS, UK

^cDepartment of Chemistry, University of Massachusetts at Amherst, Amherst, MA 01002, USA

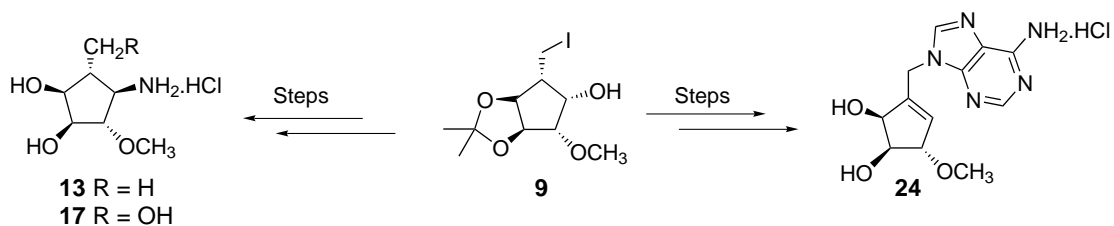


Stereoselective syntheses of aminocyclopentitols: a norbornyl approach

Tetrahedron Letters 42 (2001) 4227

Goverdhan Mehta* and Narinder Mohal

Department of Organic Chemistry, Indian Institute of Science, Bangalore 560 012, India

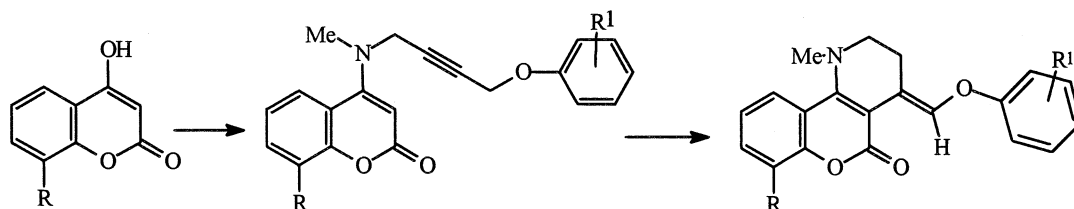


Studies of bioactive heterocycles: amino Claisen rearrangement of 4-N-(4-aryloxybut-2-ynyl),N-methylaminocoumarins

Tetrahedron Letters 42 (2001) 4231

K. C. Majumdar* and T. Bhattacharyya

Department of Chemistry, University of Kalyani, Kalyani 741235, West Bengal, India

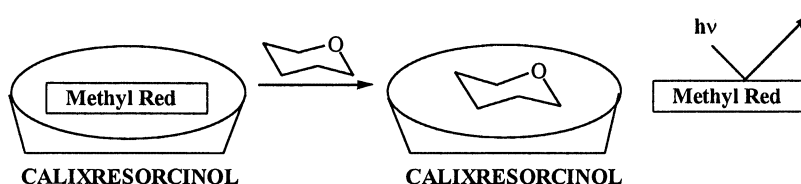


1,1'-Binaphthyl substituted calixresorcinols–methyl red complexes: receptors for optical saccharide sensing

Tetrahedron Letters 42 (2001) 4235

Oleksandr Rusin and Vladimír Král*

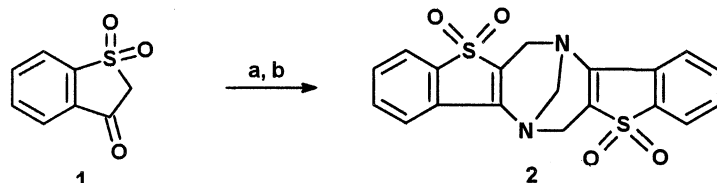
Institute of Chemical Technology, Department of Analytical Chemistry, Technická 5, 166 28 Prague, Czech Republic



Unusual cyclization of 1-thianaphthenone-3-dioxide-1,1 to a 1,5-diazabicyclo[3.3.1]nonane—a heterocyclic analogue of a Tröger's base

Tetrahedron Letters 42 (2001) 4239

Brigita Čekavičius,* Edvards Liepinsh, Brigita Vīgante, Arkadijs Sobolevs, Jānis Ozols and Gunārs Duburs
Latvian Institute of Organic Synthesis, Aizkraukles 21, Riga LV 1006, Latvia



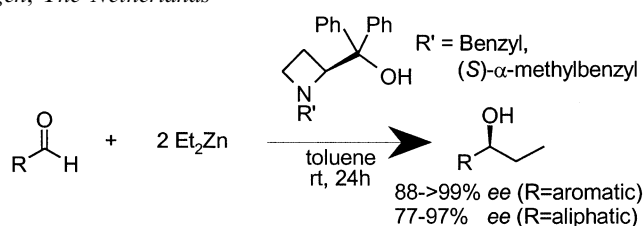
a) $(\text{CH}_2)_6\text{N}_4$, $\text{CH}_3\text{COONH}_4$, CH_3COOH or CF_3COOH ,
 b) $(\text{CH}_2\text{O})_n$, $\text{CH}_3\text{COONH}_4$, CH_3COOH , $\text{C}_6\text{H}_5\text{CH}_3$

Enantioselective diethylzinc addition to aldehydes using azetidine-derived chiral catalysts

Tetrahedron Letters 42 (2001) 4243

P. J. Hermsen, J. G. O. Cremers, L. Thijs and B. Zwanenburg*

Department of Organic Chemistry, NSR Institute for Molecular Structure, Design and Synthesis, University of Nijmegen, Toernooiveld, 6525 ED Nijmegen, The Netherlands

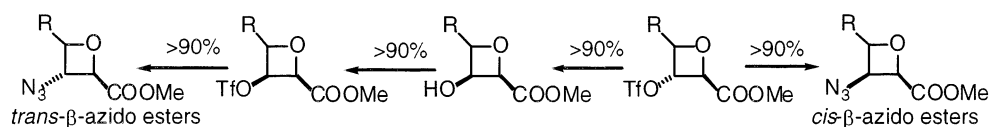


cis- and trans-3-Azido-oxetane-2-carboxylate scaffolds: hexamers of oxetane cis-β-amino acids

Tetrahedron Letters 42 (2001) 4247

Sarah F. Barker, Donald Angus, Claude Taillefumier, Michael R. Probert, David J. Watkin, Mark P. Watterson, Timothy D. W. Claridge, Natasha L. Hungerford and George W. J. Fleet*

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10-Helical conformations in oxetane β-amino acid hexamers

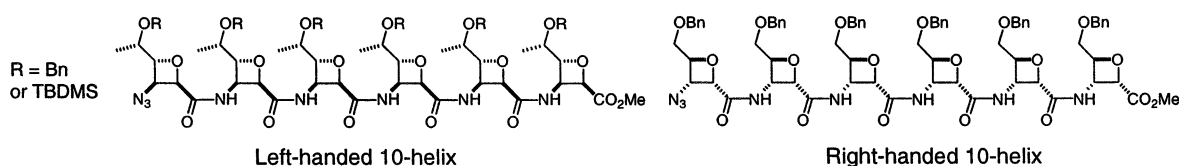
Tetrahedron Letters 42 (2001) 4251

Timothy D. W. Claridge,^a Jonathan M. Goodman,^b Andres Moreno,^a

Donald Angus,^a Sarah F. Barker,^a Claude Taillefumier,^a Mark P. Watterson^a and George W. J. Fleet^{a,*}

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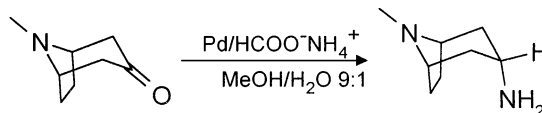
One-pot, new stereoselective synthesis of *endo*-tropanamine

Tetrahedron Letters 42 (2001) 4257

Marcello Allegretti,* Valerio Berdini, M. Candida Cesta, Roberto Curti,
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A palladium-catalysed reductive amination of tropanone to 3-*endo*-tropanamine is reported. The procedure is a new, convenient and versatile route for the synthesis of amines from ketones.

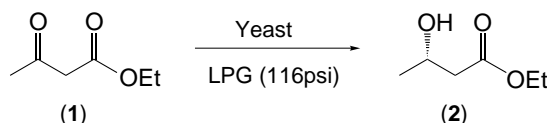


The use of liquefied petroleum gas (LPG) as a solvent for yeast reactions

Tetrahedron Letters 42 (2001) 4261

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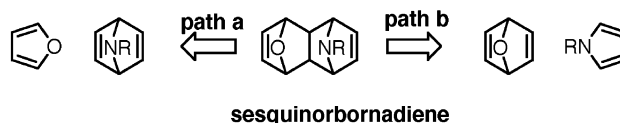


The *N,O*-bridged sesquinorbornadienes: a testing ground for establishing the superiority of *N-Z* pyrrole over furan as a dienofuge in retro-Diels–Alder reactions

Tetrahedron Letters 42 (2001) 4263

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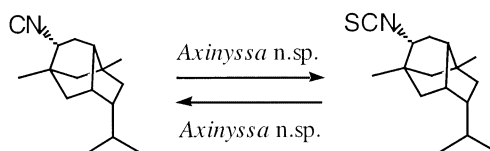


Advanced precursors in marine biosynthetic study. Part 2: The biosynthesis of isocyanides and isothiocyanates in the tropical marine sponge *Axinyssa* n.sp.

Tetrahedron Letters 42 (2001) 4267

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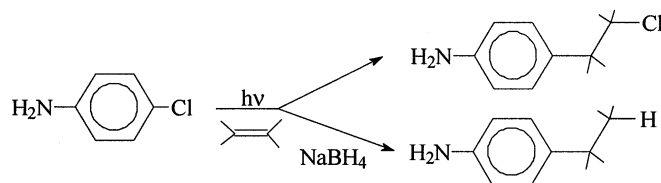


Photochemical conversion of 4-chloroaniline into 4-alkylanilines

Tetrahedron Letters 42 (2001) 4271

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A general method to fluoros ponytail-substituted aromatics

Tetrahedron Letters 42 (2001) 4275

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