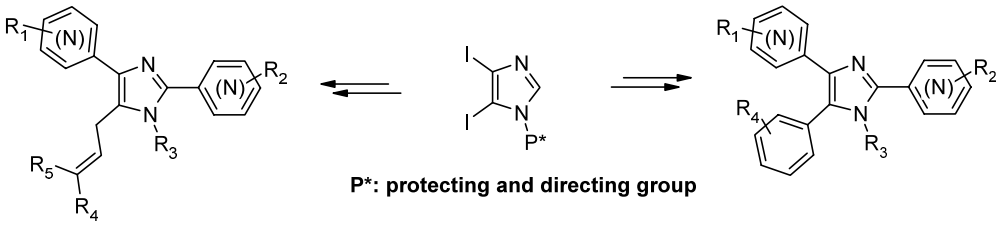
Design and novel synthesis of aryl-heteroaryl-imidazole MAP kinase inhibitors

Tetrahedron Letters 44 (2003) 7115

Markus R. Dobler

Syngenta Crop Protection AG, Lead Finding Chemistry, 4002 Basel, Switzerland

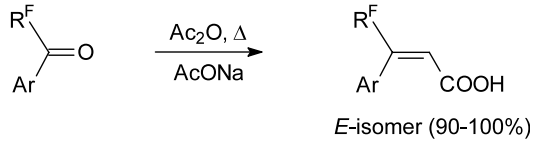


3-Polyfluoroalkyl-substituted *E*-cinnamic acids: easy access via Perkin reaction

Tetrahedron Letters 44 (2003) 7119

Dmitri V. Sevenard*

Institute of Inorganic & Physical Chemistry, University of Bremen, Leobener Strasse, 28334 Bremen, Germany

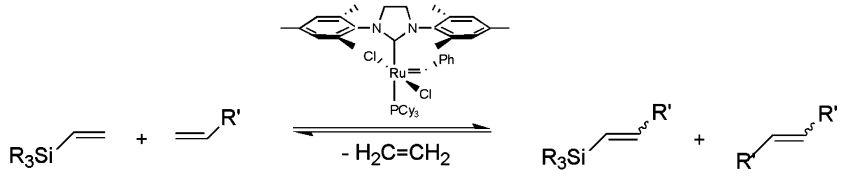


Cross-metathesis of vinylsilanes carrying electron-withdrawing substituents with olefins in the presence of the second-generation Grubbs catalyst

Tetrahedron Letters 44 (2003) 7121

Cezary Pietraszuk,[a,b] Bogdan Marciniec[a] and Helmut Fischer[b,*]

[a]*Faculty of Chemistry, Adam Mickiewicz University, 60-780 Poznan, Poland*
[b]*Fachbereich Chemie, Universität Konstanz, Fach M 727, 78457 Konstanz, Germany*

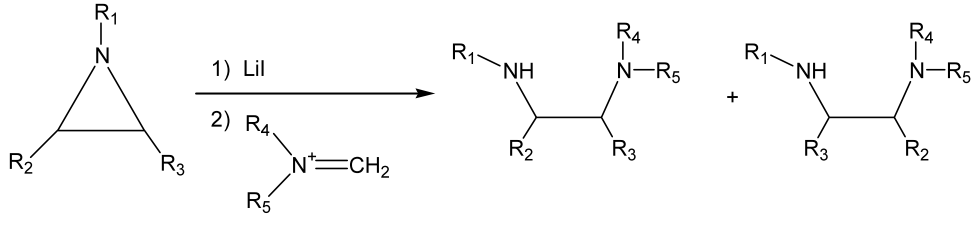


The conversion of an aziridine plus an iminium salt to a 1,2-diamine

Tetrahedron Letters 44 (2003) 7125

Matthew T. Hancock and Allan R. Pinhas*

Department of Chemistry, University of Cincinnati, PO Box 210172, Cincinnati, OH 45221-0172, USA



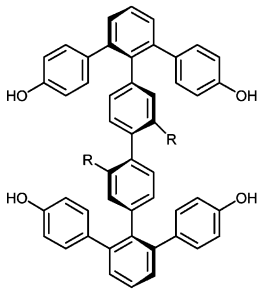
Tetrahedron Letters 44 (2003) 7129

Synthesis of *m*-terphenyl derivatives for potential use as tectons in crystal engineering

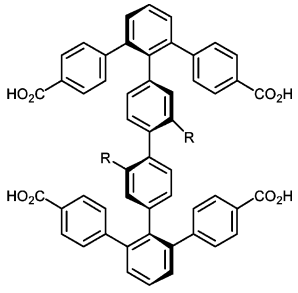
Ryan S. Wright and Thottumkara K. Vinod*

Department of Chemistry, Western Illinois University, Macomb, IL 61455, USA

Treatment of 4,4-biphenyldiboronic acid with suitably substituted iodo-*m*-terphenyls provide easy access to the precursors for the synthesis of **1** and **2**, two rigid *m*-terphenyl derivatives bearing H-bonding groups, for potential use as tectons in crystal engineering.



1 (R = H)



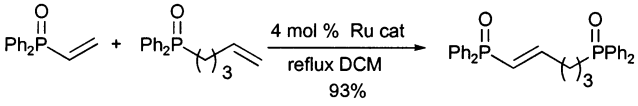
2 (R = H)

Tetrahedron Letters 44 (2003) 7133

Cross-metathesis, a versatile synthetic methodology for the construction of alkenyl phosphine oxides and bis-phosphine oxides

F. Bisaro and V. Gouverneur*

University of Oxford, The Dyson Perrins Laboratory, South Parks Road, Oxford OX1 3QY, UK



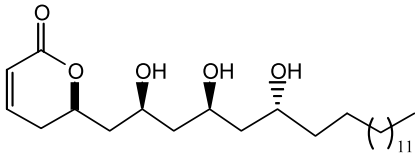
Tetrahedron Letters 44 (2003) 7137

Configurational analysis of the natural product passifloricin A by quantum mechanical ^{13}C NMR GIAO chemical shift calculations

Giuseppe Bifulco, Luigi Gomez-Paloma and Raffaele Riccio*

Dipartimento di Scienze Farmaceutiche, Università di Salerno, Via Ponte don Melillo I-84084 Fisciano (Salerno), Italy

Quantum chemical GIAO ^{13}C NMR chemical shifts calculations at mPW1PW91 level using the 6-31g(d,p) basis set are here utilized as a support to define the configurational features of the natural product passifloricin A.

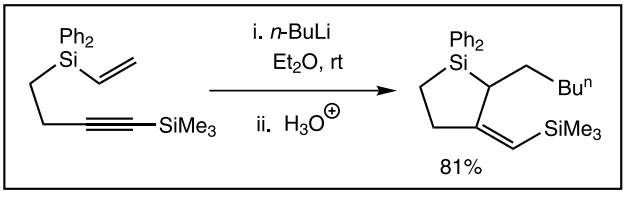


Tetrahedron Letters 44 (2003) 7143

Tandem intermolecular–intramolecular carbolithiation: application to the synthesis of silacyclopentanes

Xudong Wei* and Richard J. K. Taylor*

Department of Chemistry, University of York, Heslington, York YO10 5DD, UK

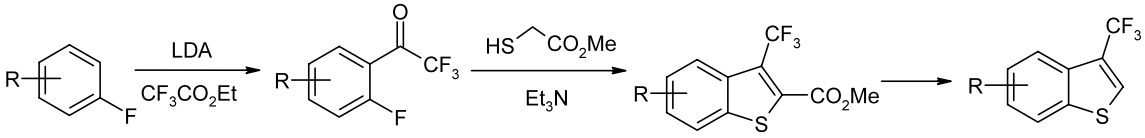


Synthesis of substituted 3-trifluoromethylbenzo[*b*]thiophenes

Tetrahedron Letters 44 (2003) 7147

W. M. Owton*

Lilly Research Centre, Eli Lilly and Company Ltd., Erl Wood Manor, Windlesham, Surrey, GU20 6PH, UK

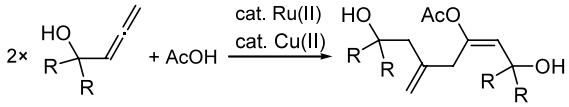


Regio- and stereocontrolled dimerisation of allenic alcohols via introduction of an acetoxy group using ruthenium catalysis

Tetrahedron Letters 44 (2003) 7151

Masahiro Yoshida,* Takahiro Gotou and Masataka Ihara*

Department of Organic Chemistry, Graduate School of Pharmaceutical Sciences, Tohoku University, Aobayama, Sendai 980-8578, Japan



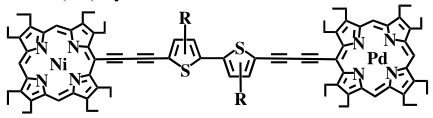
Synthesis and properties of unsymmetrically extended π-electronic conjugation system of octaethylporphyrin(Ni)–dihexybithiophene–octaethylporphyrin(Pd) connected with diacetylene linkage

Tetrahedron Letters 44 (2003) 7155

Naoto Hayashi, Akihito Matsuda, Emiko Chikamatsu, Kazumine Mori and Hiroyuki Higuchi*

Department of Chemistry, Faculty of Science, Toyama University, 3190 Gofuku, Toyama, Toyama 930-8555, Japan

Orientational isomers of the diacetylene-group connected dihexybithiophene (DHBTh) derivatives have been synthesized, in which the different octaethylporphyrin (OEP) rings are attached at the ends. Reflecting the unsymmetrical structural features, the peculiar electronic properties of the OEP(Ni)–DHBTh–OEP(Pd) system were observed.



HH and **TT Isomers**

A new ergostane-type cholesterol biosynthesis inhibitor isolated from *Hormoconis resinae*

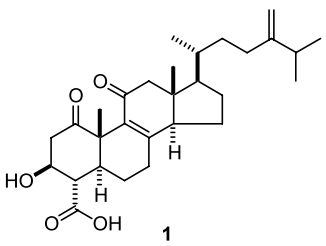
Tetrahedron Letters 44 (2003) 7159

Hyun Jung Kim,[a] Soon-Ho Yim,[a] Chung Ki Sung,[a] Jee H. Jung,[b] Boo Ahn Shin[c] and Ik-Soo Lee[a,*]

[a]*College of Pharmacy and Research Institute of Drug Development, Chonnam National University, Gwangju 500-757, South Korea*

[b]*College of Pharmacy, Pusan National University, Busan 609-735, South Korea*

[c]*Research Institute of Medical Sciences, Chonnam National University, Gwangju 501-190, South Korea*



1

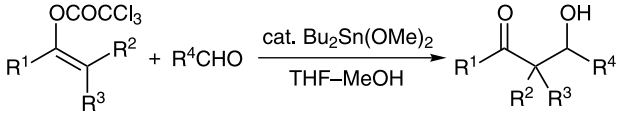
A new ergostane-type steroid, 3β-hydroxy-1,11-dioxo-ergosta-8,24(28)-diene-4α-carboxylic acid (**1**) was isolated from the mold *Hormoconis resinae* as a cholesterol biosynthesis inhibitor in the Chang liver cell.

Tetrahedron Letters 44 (2003) 7163

Dibutyltin dimethoxide-catalyzed aldol reaction of enol trichloroacetates

Akira Yanagisawa* and Takayuki Sekiguchi

Department of Chemistry, Faculty of Science, Chiba University, Inage, Chiba 263-8522, Japan

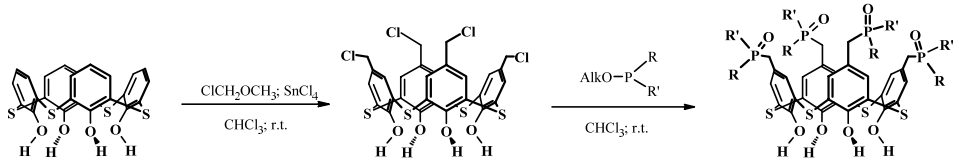


Tetrahedron Letters 44 (2003) 7167

Upper rim substituted thiacalix[4]arenes

Oleg Kasyan,[a] Dariusz Swierczynski,[b] Andrew Drapailo,[a]
Kinga Suwinska,[b] Janusz Lipkowski[b] and Vitaly Kalchenko[a,*]

[a]*Institute of Organic Chemistry, National Academy of Sciences of Ukraine, 02094, Kyiv-94, Murmanskaya str. 5, Ukraine*
[b]*Institute of Physical Chemistry, Polish Academy of Sciences, 01-224, Kasprzaka, 44, Warsaw, Poland*



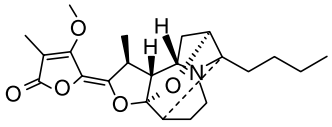
Tetrahedron Letters 44 (2003) 7171

Semi-syntheses of new stemofoline derivatives

Yang Ye[a] and Robert F. Velten[b,*]

[a]*State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, SIBS, Chinese Academy of Sciences, 555 Zu-Chong-Zhi Road, Zhangjiang High Tech Park, 201203 Shanghai, China*
[b]*Bayer CropScience AG, Research Global Chemistry Insecticides, Building Q18, D-51368 Leverkusen, Germany*

Semi-syntheses of several new stemofoline derivatives are described.

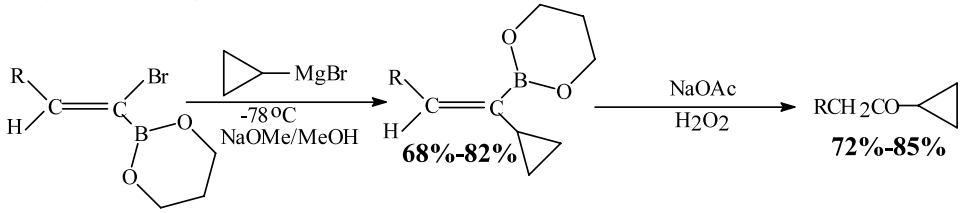


Tetrahedron Letters 44 (2003) 7175

A highly diastereoselective synthesis of (*E*)-*B*-2-(1-cyclopropyl-1-alkenyl)-1,3,2-dioxaborinanes. Isolation and oxidation to alkyl cyclopropyl ketones

Narayan G. Bhat,* Laura Garcia and Victoriano Tamez, Jr.

Department of Chemistry, University of Texas-Pan American, 1201 West University Drive, Edinburg, TX 78541, USA

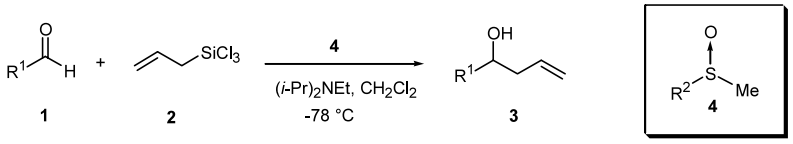


Tetrahedron Letters 44 (2003) 7179

Asymmetric allylation of aldehydes with allyltrichlorosilane promoted by chiral sulfoxides

Antonio Massa,[a,*] Andrei V. Malkov,[b] Pavel Kočovský[b] and Arrigo Scettri[a]

[a]*Dipartimento di Chimica, Università di Salerno, Via S. Allende 84081 Baronissi, Salerno, Italy*
[b]*Department of Chemistry, University of Glasgow, Glasgow G12 8QQ, UK*

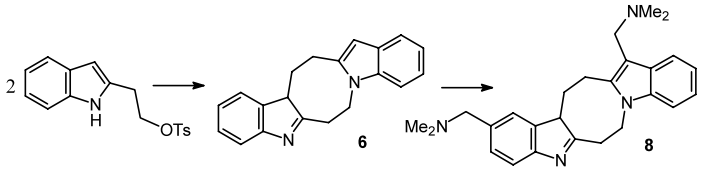


Tetrahedron Letters 44 (2003) 7183

6,7,14,15-Tetrahydro-*15aH*-azocino[1,2-*a*:6,5-*b*′]diindole. Synthesis of a novel pentacyclic ring system

Kittisak Sripha,[a] Darius P. Zlotos,[a,*] Stefan Buller[b] and Klaus Mohr[b]

[a]*Pharmaceutical Institute, University of Würzburg, Am Hubland, 97074 Würzburg, Germany*
[b]*Institute of Pharmacy, Dept. of Pharmacology and Toxicology, University of Bonn, An der Immenburg 4, 53121 Bonn, Germany*

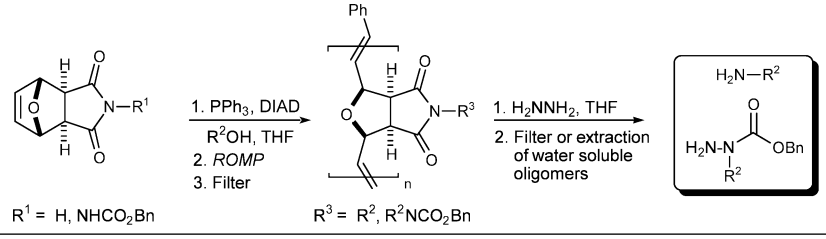


Tetrahedron Letters 44 (2003) 7187

Capture-ROMP-release: application to the synthesis of amines and alkyl hydrazines

Shubhasish Mukherjee,[a] Kevin W. C. Poon,[a] Daniel L. Flynn[b,*] and Paul R. Hanson[a,*]

[a]*Department of Chemistry, University of Kansas, 1251 Wescoe Hall Drive, Lawrence, KS 66045-7582, USA*
[b]*Neogenesis Pharmaceuticals, Inc., 840 Memorial Drive, Cambridge, MA 02139, USA*



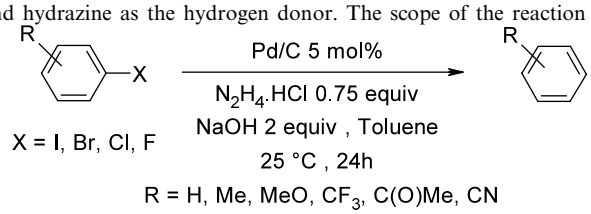
Tetrahedron Letters 44 (2003) 7191

Pd/C-catalyzed room-temperature hydrodehalogenation of aryl halides with hydrazine hydrochloride

Pascal P. Cellier,[a] Jean-Francis Spindler,[b] Marc Taillefer[a,*] and Henri-Jean Cristau[a,*]

[a]*Laboratoire de Chimie Organique, ENSCM (UMR 5076), 8 rue de l'Ecole Normale, 34296 Montpellier cedex 5, France*
[b]*RHODIA Organique Fine, Centre de Recherches de Lyon, 85 avenue des Frères Perret, BP 62, 69192 Saint-Fons Cedex, France*

Aryl and heteroaryl halides were cleanly hydrodehalogenated at room temperature into the corresponding arenes in the presence of catalytic Pd/C, sodium hydroxide and hydrazine as the hydrogen donor. The scope of the reaction has been investigated.

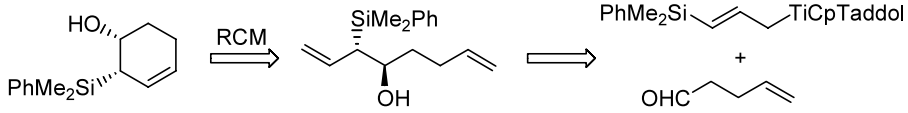


Tetrahedron Letters 44 (2003) 7197

An allylation-metathesis sequence as a convergent strategy towards enantiopure equivalents of highly functionalized cyclic dienes

Laurence de Fays,[a] Jean-Michel Adam[b] and Léon Ghosez[a,*]

[a]*Institut Européen de Chimie et Biologie, c/o ENSCPB, 16 avenue Pey Berland, 33607 Pessac Cedex, France*
[b]*Departement de Chimie, Université Catholique de Louvain, place L. Pasteur, B-1348 Louvain-la-Neuve, Belgium*

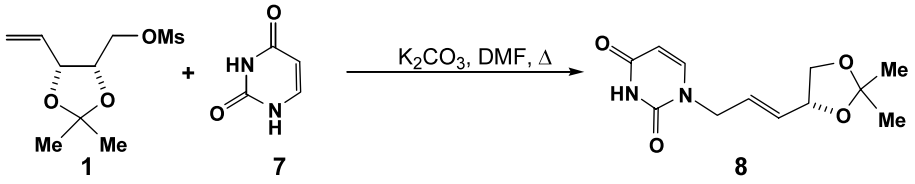


Tetrahedron Letters 44 (2003) 7201

An unusual acetonide group migration

Anil K. Saksena,[a,*] Viyyoor M. Girijavallabhan,[a] Mohindar S. Puar,[a] Birendra N. Pramanik,[a] Pradip R. Das[a] and Andrew T. McPhail[b]

[a]*Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033, USA*
[b]*Paul M. Gross Chemical Laboratories, Duke University, Durham, NC 27706, USA*

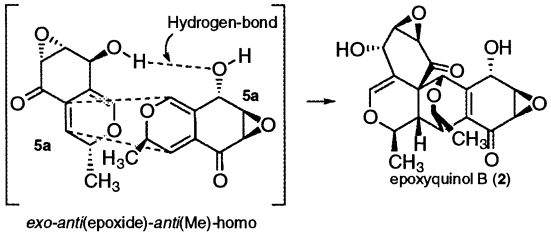


Tetrahedron Letters 44 (2003) 7205

Reaction modes of oxidative dimerization of epoxycyclohexenols

Mitsuru Shoji,[a] Satoshi Kishida,[a] Yusuke Kodera,[a] Isamu Shiina,[b] Hideaki Kakeya,[c] Hiroyuki Osada[c] and Yujiro Hayashi[a,*]

[a]*Department of Industrial Chemistry, Faculty of Engineering, Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan*
[b]*Department of Applied Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan*
[c]*Antibiotics Laboratory, Discovery Research Institute, RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan*

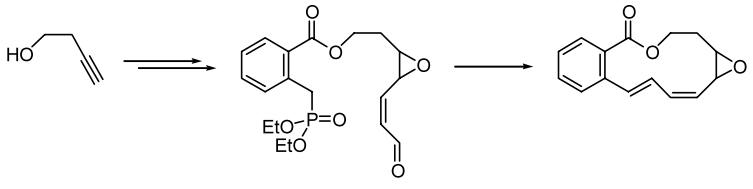


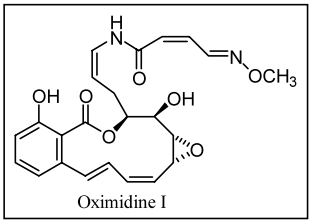
Tetrahedron Letters 44 (2003) 7209

The first synthesis of the epoxide-containing macrolactone nucleus of oximidine I

Joanne E. Harvey, Steven A. Raw and Richard J. K. Taylor*

Department of Chemistry, University of York, Heslington, York YO10 5DD, UK



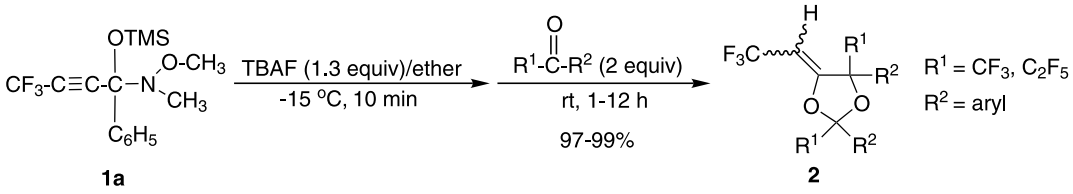


Tetrahedron Letters 44 (2003) 7213

Preparation of 4-trifluoroethylidene-1,3-dioxolane derivatives via new stable (trifluoromethyl)ethynylation reagent

In Howa Jeong,[a,*] Sung Lan Jeon[a] and Bum Tae Kim[b]

[a]*Department of Chemistry, Yonsei University, Wonju, South Korea*
[b]*Korea Research Institute of Chemical Technology, Daejeon, South Korea*



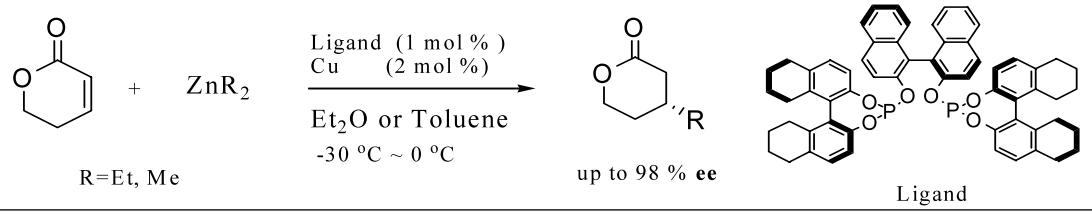
1a 2

Tetrahedron Letters 44 (2003) 7217

Highly enantioselective 1,4-conjugate addition of dialkylzinc to α,β-unsaturated lactone catalyzed by diphosphite–copper complexes

Liang Liang,[a,b] Liming Su,[a] Xingshu Li[a] and Albert S. C. Chan[a,*]

[a]*Open Laboratory of Chirotechnology of the Institute of Molecular Technology for Drug Discovery and Synthesis and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, PR China*
[b]*Faculty of Chemical Engineering and Light Industry, Guangdong University of Technology, Guangzhou, PR China*



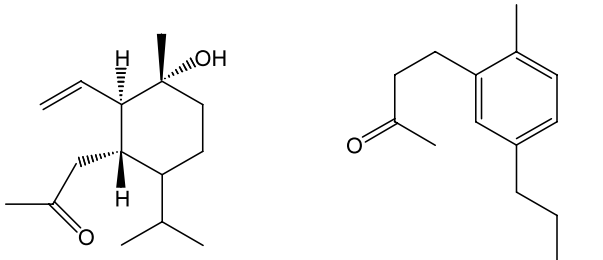
Tetrahedron Letters 44 (2003) 7221

Two novel sesquiterpenes from the roots of *Taiwania cryptomerioides* Hayata

Yueh-Hsiung Kuo* and Chiou-Feng Chyu

Department of Chemistry, National Taiwan University, Taipei, Taiwan, ROC

Two novel sesquiterpenes, taiwaninones A (**1**) and B (**2**), were isolated from the roots of *Taiwania cryptomerioides*. Their structures were elucidated through spectral studies. The biotransformation was proposed.



1

2

Tetrahedron Letters 44 (2003) 7225

Metal oxide in aqueous organic solution promoted chemoselective *N*-sulfonylation of hydrophilic amino alcohols

Hak Hee Kang,[a] Ho Sik Rho,[b,*] Duck Hee Kim[b] and Seong-Geun Oh[a]

[a]*Department of Chemical Engineering, College of Engineering, Hanyang University, Seoul 133-791, Republic of Korea*
[b]*R&D Center, AmorePacific Corporation, 314-1, Bora-ri, Kiheung-eup, Kyounggi-do 449-900, Republic of Korea*