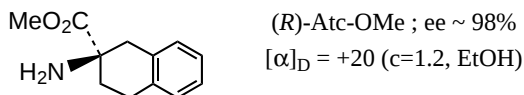


Synthesis of (+)-(R)-methyl 2-aminotetraline-2-carboxylate: the hydroxy-pinane method versus the bislactim method
Tetrahedron: Asymmetry 12 (2001) 967

 Arlette Solladié-Cavallo,^{a,*} Luisa M. Martín-Cabrejas,^a Giorgio Caravatti^b and Marc Lang^b
^aECPM/Université L. Pasteur, 25 rue Becquerel, 67087 Strasbourg cedex 2, France

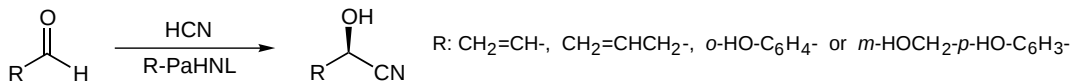
^bNovartis Pharma AG, Oncology Research, K-136.4.23, 4002 Basel, Switzerland

(+)-(R)-Atc-OMe was obtained in three steps and 55% overall yield from (R)-i-Pr-bislactim ether while the hydroxy-pinane method led to elimination.

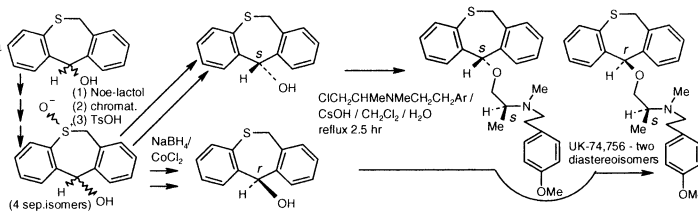

Difficult substrates in the R-hydroxynitrile lyase catalyzed hydrocyanation reaction: application of the mass transfer limitation principle in a two-phase system
Tetrahedron: Asymmetry 12 (2001) 971

Pieter Jan Gerrits, Jan Marcus,* LEMONIA Birikaki and Arne van der Gen

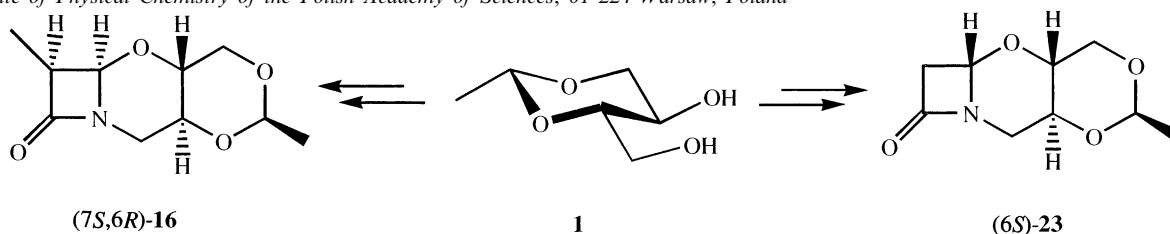
Leiden Institute of Chemistry, Gorlaeus Laboratoria, Leiden University, PO Box 9502, 2300 RA Leiden, The Netherlands


Rational resolution of the isosteric enantiomers of 6,11-dihydrodibenzo[b,e]thiepin-11-ol and conversion to the two isosteric diastereoisomers of the calcium channel blocker UK-74,756
Tetrahedron: Asymmetry 12 (2001) 975

 John E. G. Kemp,^{a,*} Robert A. Bass,^a Jon Bordner,^b Peter E. Cross,^a Roger F. Gammon^a and Jennifer A. Price^a
^aDiscovery Chemistry, Pfizer Global Research and Development, Sandwich, Kent CT13 9NJ, UK

^bStructural Chemistry and Computational Chemistry, Pfizer Global Research and Development, Groton, CT, USA

Stereocontrolled formation of cepams from 1,3-O-ethylidene-L-erythritol
Tetrahedron: Asymmetry 12 (2001) 979

 Katarzyna Borsuk,^a Kinga Suwińska^b and Marek Chmielewski^{a,*}
^aInstitute of Organic Chemistry of the Polish Academy of Sciences, 01-224 Warsaw, Poland

^bInstitute of Physical Chemistry of the Polish Academy of Sciences, 01-224 Warsaw, Poland


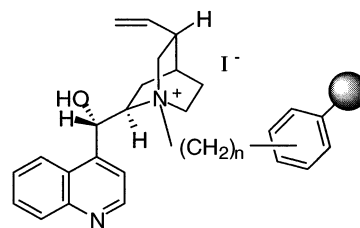
New polymer-supported chiral phase-transfer catalysts in the asymmetric synthesis of α -amino acids: the role of a spacer

Baptiste Thierry, Jean-Christophe Plaquevent and Dominique Cahard*

Université de Rouen, UPRES-A 6014 de l'Institut de Recherche en Chimie Organique Fine (IRCOF), Rue Tesnière 76821 Mont Saint Aignan Cedex, France

Polymer-supported cinchona alkaloid salts with different spacers were used as phase transfer catalysts in the asymmetric C-alkylation of *N*-diphenyl methylene glycine *tert*-butyl ester, giving e.e.s of up to 81%.

Tetrahedron: Asymmetry 12 (2001) 983



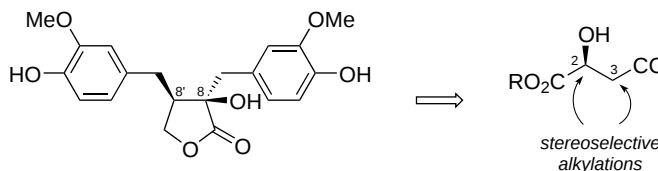
Synthesis of (+)-wikstromol by double alkylation of malic acid

Michael Sefkow

Institut für Organische Chemie und Strukturanalytik, Universität Potsdam, Karl-Liebknecht-Str. 24-25, D-14476 Golm, Germany

(+)-Wikstromol was synthesized in six steps and 20% overall yield by employing two stereoselective benzylations of (+)-malic acid. The influence of the malate ester alkyl residue on the efficiency, stereoselectivity and yield of the first alkylation was also investigated.

Tetrahedron: Asymmetry 12 (2001) 987



Antifungal diastereomeric furanones from *Mutisia friesiana*: structural determination and conformational analysis

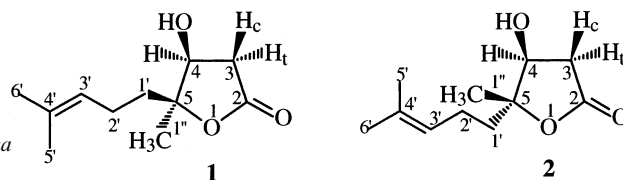
Carmen I. Viturro,^a Marta S. Maier,^{b,*} Carlos A. Stortz^b and Juana R. de la Fuente^c

^aFacultad de Ingeniería, Universidad Nacional de Jujuy, Gorriti 237, 4600 S. S. de Jujuy, Jujuy, Argentina

^bDepartamento de Química Orgánica, Facultad de Ciencias Exactas y Naturales, Pabellón 2, Ciudad Universitaria, 1428 Buenos Aires, Argentina

^cFacultad de Ciencias Exactas, Universidad Nacional de Salta, Buenos Aires 177, 4400 Salta, Salta, Argentina

Tetrahedron: Asymmetry 12 (2001) 991



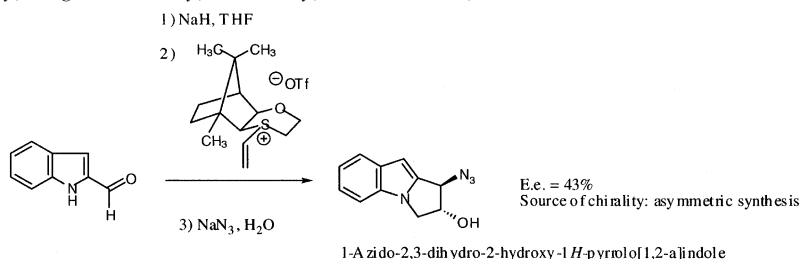
Diastereomeric furanones **1** and **2** were isolated for the first time from the shrub *Mutisia friesiana*. The combination of molecular modeling and NMR data allowed the assignment of the stereochemistry of both compounds.

A camphor-derived vinylsulfonium salt as a reagent for a cycloannulation

Kyung-hee Kim and Leslie S. Jimenez*

Department of Chemistry, Rutgers University, Piscataway, NJ 08854-8087, USA

Tetrahedron: Asymmetry 12 (2001) 999

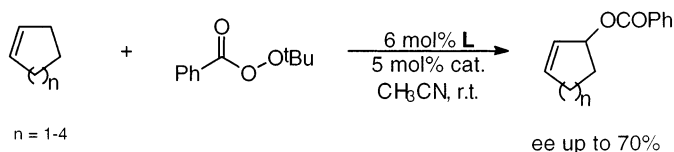


Tetrahedron: Asymmetry 12 (2001) 1007

Wing-Sze Lee, Hoi-Lun Kwong,* Hoi-Ling Chan, Wing-Wai Choi and Lai-Yuen Ng

Department of Biology and Chemistry, City University of Hong Kong, 83 Tat Chee Avenue, Kowloon, Hong Kong SAR, China

Chiral copper(I)–bipyridine complexes were prepared and used as catalysts in the enantioselective allylic oxidation of cyclic alkenes with *tert*-butyl perbenzoate. The yields ranged from moderate to good and enantioselectivities up to 70% were observed.

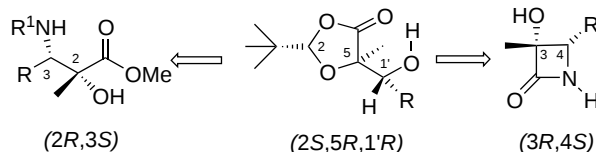


Tetrahedron: Asymmetry 12 (2001) 1015

Arturo Battaglia,* Gaetano Barbaro, Patrizia Giorgianni,
Andrea Guerrini and Antonella Pepe

Istituto CNR dei Composti del Carbonio Contenenti Eteroatomi 'I.Co.C.E.A.', via Gobetti 101, I-40129 Bologna, Italy

1,3-Dioxolanone alcohols are suitable intermediates for the synthesis of chiral trisubstituted isoserines or trisubstituted 3-hydroxy- β -lactams.



Tetrahedron: Asymmetry 12 (2001) 1025

Annemarie Hage,^{a,c,*} Daniëlle G. I. Petra,^c Jim A. Field,^b Dick Schipper,^f Joannes B. P. A. Wijnberg,^d Paul C. J. Kamer,^c Joost N. H. Reek,^c Piet W. N. M. van Leeuwen,^c Ron Wever^c and Hans E. Schoemaker^{c,e}

^a*Division of Industrial Microbiology, Department of Agrotechnology and Food Sciences, Wageningen University and Research Centre, PO Box 8129, 6700 EV Wageningen, The Netherlands*

^bDepartment of Chemical and Environmental Engineering, University of Arizona, PO Box 210011, Tucson, AZ 85721-0011, USA

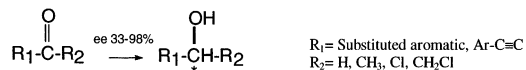
^cInstitute of Molecular Chemistry, University of Amsterdam, Nieuwe Achtergracht 166, 1018 WV Amsterdam, The Netherlands

^dLaboratory of Organic Chemistry, Wageningen University and Research Centre, Dreijenplein 8, 6703 HB Wageningen, The Netherlands

^cDSM Research, Life Science Products, PO Box 18, 6160 MD Geleen, The Netherlands

^fDSM Research, postpoint 624-305, PO Box 1, 2600 MA Delft, The Netherlands

Biotransformations using whole cells of *Merulius tremellosus*, asymmetric transfer hydrogenation using homochiral Ru and Ir catalysts.

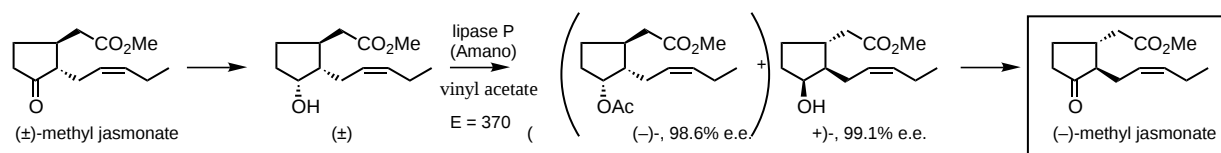


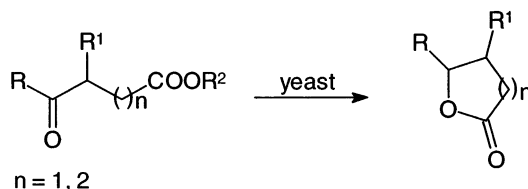
Tetrahedron: Asymmetry 12 (2001) 1035

Hiromasa Kiyota,* Emi Higashi, Takanori Koike and Takayuki Oritani

Department of Applied Bioorganic Chemistry, Division of Life Science, Graduate School of Agricultural Science, Tohoku University, 1-1 Tsutsumidori-Amamiya, Aoba-ku, Sendai 981-8555, Japan

Both enantiomers of methyl jasmonate were obtained from its racemate via lipase-catalyzed resolution.

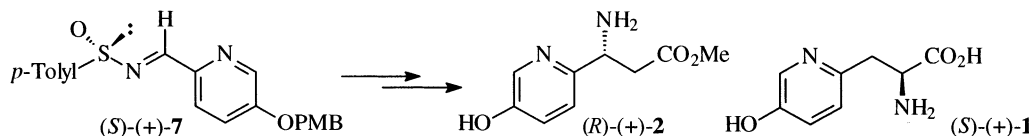


Microbial bioreductions of γ - and δ -ketoacids and their esters*Tetrahedron: Asymmetry 12 (2001) 1039*Cristina Forzato,^a Raffaella Gandolfi,^b Francesco Molinari,^b
Patrizia Nitti,^a Giuliana Pitacco^a and Ennio Valentin^{a,*}^aDipartimento di Scienze Chimiche, Università di Trieste, via Licio Giorgieri 1, I-34127 Trieste, Italy^bDipartimento di Scienze e Tecnologie Alimentari e Microbiologiche, Sezione Microbiologia Industriale, Università di Milano, via Celoria 2, I-20133 Milan, Italy**Synthesis of (*R*)-(+)-methyl 3-amino-3-(5-hydroxy-2-pyridinyl)propanoate, an analog of L-azatyrosine***Tetrahedron: Asymmetry 12 (2001) 1047*

Maciej Adamczyk* and Rajarathnam E. Reddy

Department of Chemistry (9NM, Bldg AP20-2), Diagnostics Division, Abbott Laboratories, 100 Abbott Park Road, Abbott Park, IL 60064-6016, USA

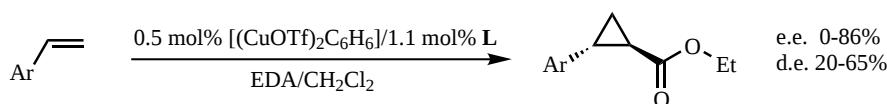
A concise asymmetric synthesis of (*R*)-(+)-methyl 3-(5-hydroxy-2-pyridinyl)propanoate **2**, a β -amino acid analog of L-azatyrosine **1** is described starting from (*S*)-(+)-**7** via addition of enolate of methyl acetate and cleavage of protective groups.

**Catalyst structure and the enantioselective cyclopropanation of alkenes by copper complexes of biaryldiimines: the importance of ligand acceleration***Tetrahedron: Asymmetry 12 (2001) 1055*

Christopher J. Sanders, Kevin M. Gillespie and Peter Scott*

Department of Chemistry, University of Warwick, Coventry CV4 7AL, UK

The disparity in enantioselection in the title reaction for certain ligands is traced to the presence of equilibrium amounts of Cu(OTf).

**Chemo- and enantioselective catalytic addition of propargyl chloride to aldehydes promoted by [Cr(Salen)] complexes***Tetrahedron: Asymmetry 12 (2001) 1063*

Marco Bandini, Pier G. Cozzi,* Paolo Melchiorre, Roberta Tino and Achille Umani-Ronchi*

Dipartimento Chimico 'G. Ciamician', Università di Bologna, Via Selmi 2, 40126 Bologna, Italy

Macrocyclic Schiff-base ligands as 'drivers' of the chemo- and enantioselectivity in the chromium-mediated addition of propargyl chloride to aldehydes.

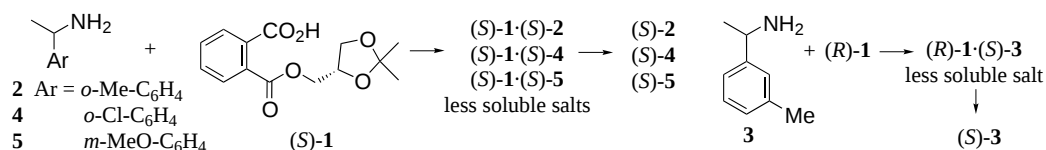
Resolution of *ortho*- and *meta*-substituted 1-phenylethylamines with isopropylidene glycerol hydrogen phthalate

Tetrahedron: Asymmetry 12 (2001) 1071

Marco Pallavicini,^{a,*} Ermanno Valoti,^a Luigi Villa^a and Oreste Piccolo^b

^a*Istituto di Chimica Farmaceutica e Tossicologica, Università di Milano, viale Abruzzi 42, I-20131 Milan, Italy*

^b*Studio di Consulenza Scientifica, via Bornò 5, I-22060 Sirtori (LC), Italy*



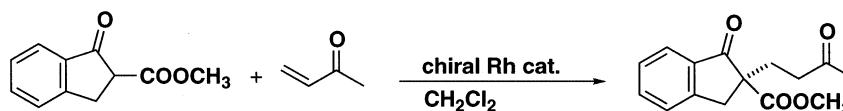
Catalytic asymmetric Michael reactions using a chiral rhodium complex

Tetrahedron: Asymmetry 12 (2001) 1077

Takeyuki Suzuki^{a,b,*} and Takayoshi Torii^b

^a*Graduate School of Pharmaceutical Sciences, The University of Tokyo, Hongo, Bunkyo-ku, Tokyo 113-0033, Japan*

^b*Department of Chemistry and Research Center for Materials Science, Nagoya University, Chikusa, Nagoya 464-8602, Japan*



Diastereoselective hydroformylation of Δ^4 -steroids with rhodium–phosphite catalysts

Tetrahedron: Asymmetry 12 (2001) 1083

Zoraida Freixa,^a Mariette M. Pereira,^{a,*} J. Carles Bayón,^{b,*}
 Artur M. S. Silva,^c Jorge A. R. Salvador,^d
 Ana Matos Beja,^e José A. Paixão^e and Manuela Ramos^e

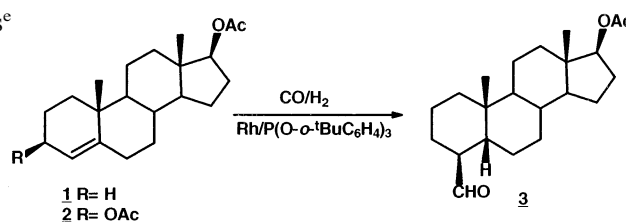
^a*Departamento de Química, Rua Larga, Universidade de Coimbra, 3049 Coimbra, Portugal*

^b*Departament de Química, Universitat Autònoma de Barcelona, Bellaterra, 08193 Barcelona, Spain*

^c*Departamento de Química, Universidade de Aveiro, 3810-193 Aveiro, Portugal*

^d*Faculdade de Farmácia, Universidade de Coimbra, Coimbra, Portugal*

^e*Departamento de Física, Universidade de Coimbra, Coimbra, Portugal*



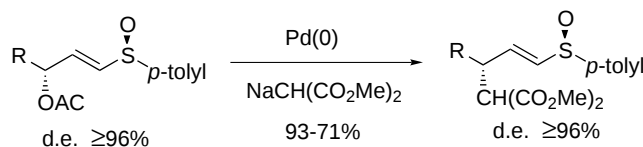
Palladium-catalyzed allylic nucleophilic substitution reactions of (*E*)- γ -acetoxy- α,β -unsaturated *p*-tolylsulfoxides

Tetrahedron: Asymmetry 12 (2001) 1089

Victor Guerrero de la Rosa,^a Mario Ordóñez^b and José Manuel Llera^{a,*}

^a*Departamento de Química Orgánica y Farmacéutica, Facultad de Farmacia Universidad de Sevilla, Apdo. de Correos No. 874, E-41071 Seville, Spain*

^b*Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos Av., Universidad No. 1001, 62210 Cuernavaca, Morelos, Mexico*



Asymmetric synthesis of β -amino acids through application of chiral sulfoxide

Tetrahedron: Asymmetry 12 (2001) 1095

A. V. Sivakumar, G. S. Babu and Sujata V. Bhat*

Department of Chemistry, Indian Institute of Technology, Powai, Mumbai 400 076, India

