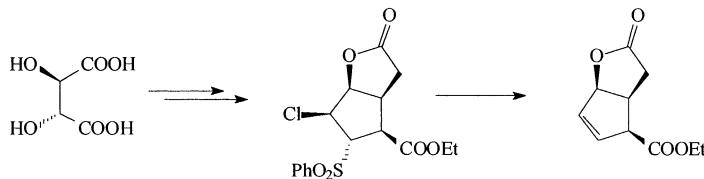
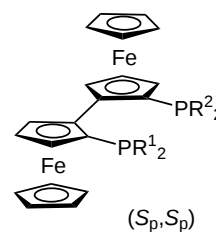
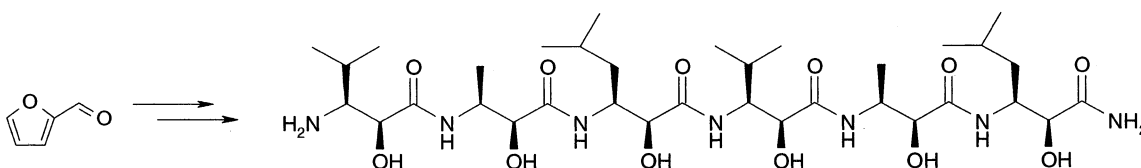


Facile synthesis of a key intermediate for the synthesis of prostanoids and isoprostanes*Tetrahedron: Asymmetry 12 (2001) 1101*Subhash P. Chavan,^{a,*} Y. Tripura Subbarao,^a A. G. Chittiboyina,^a R. Sivappa^a and C. G. Suresh^b^aDivision of Organic Chemistry: Technology, National Chemical Laboratory, Pune 411 008, India^bDivision of Biochemistry, National Chemical Laboratory, Pune 411 008, India**A straightforward and modular synthesis of enantiopure C₂- and C₁-symmetrical 2,2''-phosphino-1,1''-biferrocenes***Tetrahedron: Asymmetry 12 (2001) 1105*Li Xiao,^a Kurt Mereiter,^b Felix Spindler^c and Walter Weissensteiner^{a,*}^aInstitut für Organische Chemie, Universität Wien, Währinger Straße 38, A-1090 Vienna, Austria^bInstitute of Mineralogy, Crystallography and Structural Chemistry, Vienna University of Technology, Getreidemarkt 9, A-1060 Vienna, Austria^cSolvias AG, Catalysis Research, PO Box, CH-4002 Basel, Switzerland

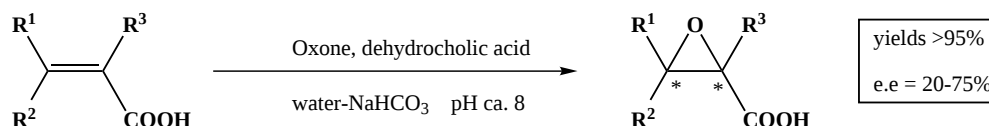
A practical and highly flexible synthesis of enantiopure C₂- and C₁-symmetrical 2,2''-phosphino-1,1''-biferrocenes, structural properties as well as preliminary Ru-catalysed hydrogenations with enantioselectivities of up to 82% are described.

**Chemoenzymatic synthesis of Fmoc-protected (2S,3S)-2-hydroxy-3-amino acids and their application in the synthesis of an α -hydroxylated β -hexapeptide***Tetrahedron: Asymmetry 12 (2001) 1109*Reynier A. Tromp, Michael van der Hoeven, Alessia Amore, Johannes Brussee,^{*} Mark Overhand, Gijss A. van der Marel and Arne van der Gen

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

**Asymmetric epoxidation of cinnamic acid derivatives using dioxiranes generated in situ from dehydrocholic acid***Tetrahedron: Asymmetry 12 (2001) 1113*Olga Bortolini, Marco Fogagnolo,^{*} Giancarlo Fantin, Silvia Maietti and Alessandro Medici

Dipartimento di Chimica, Università di Ferrara, Via Borsari 46, 44100 Ferrara, Italy

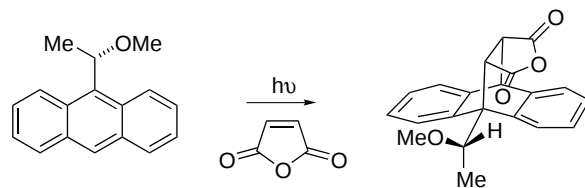


Highly diastereoselective photochemical Diels–Alder reactions: towards the development of a photoactivated chiral auxiliary

Simon Jones* and J. C. Christian Atherton

Department of Chemistry, University of Newcastle upon Tyne, Bedson Building, Newcastle upon Tyne NE1 7RU, UK

Tetrahedron: Asymmetry 12 (2001) 1117

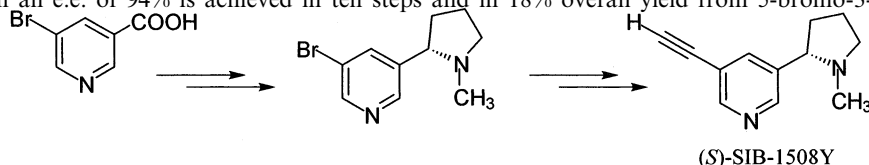


The first enantioselective synthesis of (*S*)-5-bromo-3-(1-methyl-2-pyrrolidinyl)pyridine: a key intermediate for the preparation of SIB-1508Y

François-Xavier Felpin, Giang Vo-Thanh, Jean Villieras and Jacques Lebreton*

Laboratoire de Synthèse Organique, CNRS UMR 6513, Faculté des Sciences et des Techniques, 2 rue de la Houssinière, BP 92208, 44322 Nantes Cedex 3, France

The first enantioselective synthesis of (*S*)-5-bromo-3-(1-methyl-2-pyrrolidinyl)pyridine is described. The total synthesis of (*S*)-SIB-1508Y with an e.e. of 94% is achieved in ten steps and in 18% overall yield from 5-bromo-3-pyridinecarboxylic acid.



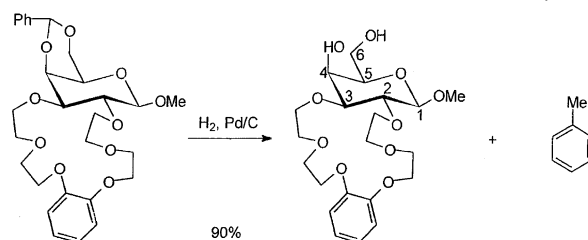
Tetrahedron: Asymmetry 12 (2001) 1121

Utility of crown ethers derived from methyl β -D-galactopyranoside and their lanthanide couples as chiral NMR discriminating agents

Thomas J. Wenzel,^{a,*} Jolene E. Thurston,^a David C. Sek^a and Jean-Pierre Joly^b

^aDepartment of Chemistry, Bates College, Lewiston, ME 04240, USA

^bGroupe Sucres, CNRS UMR 7565, Faculté des Sciences, Université Henri Poincaré-Nancy I, BP 239, F-54506 Nancy-Vandoeuvre, France



Tetrahedron: Asymmetry 12 (2001) 1125

Efficient synthesis of α,β -unsaturated γ -lactones linked to sugars

Amélia P. Rauter,^{a,*} José Figueiredo,^b Maria Ismael,^b Tana Canda,^{a,c} Josep Font^d and Marta Figueredo^d

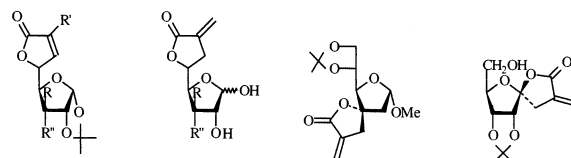
^aDepartamento de Química e Bioquímica, Faculdade de Ciências, Universidade de Lisboa, Ed. C8, 6º Piso, Campo Grande 1749-016 Lisbon, Portugal

^bDepartamento de Química, Universidade da Beira Interior, Av. Marquês de Ávila e Bolama, 6201-001 Covilhã, Portugal

^cDepartamento de Química, Faculdade de Ciências, Universidade Agostinho Neto, Luanda, Angola

^dDepartamento de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain

Sugars containing unsaturated lactones, including those depicted below, have been prepared in enantiopure form.



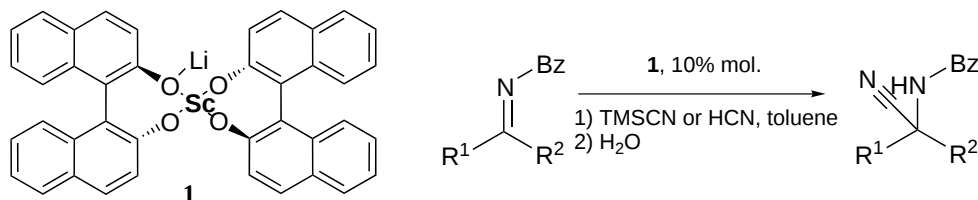
Tetrahedron: Asymmetry 12 (2001) 1131

Sc(BINOL)₂Li: a new heterobimetallic catalyst for the asymmetric Strecker reaction

Tetrahedron: Asymmetry 12 (2001) 1147

Murielle Chavarot, Janice J. Byrne, Pierre Y. Chavant and Yannick Vallée*

L.E.D.S.S., UMR CNRS-UJF, Université Joseph Fourier, B.P. 53X, 38041 Grenoble, France

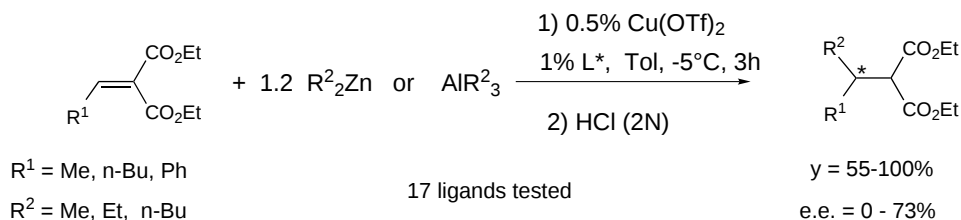


Asymmetric conjugate addition to alkylidene malonates

Tetrahedron: Asymmetry 12 (2001) 1151

Alexandre Alexakis* and Cyril Benhaim

Department of Organic Chemistry, University of Geneva, 30 quai Ernest Ansermet, CH-1211 Geneva 4, Switzerland

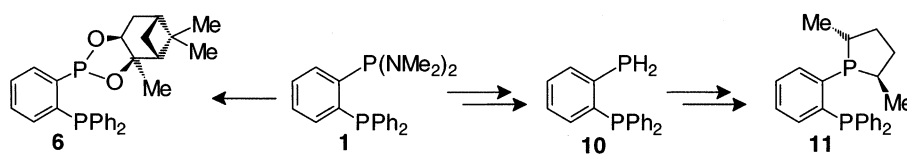


Synthesis of enantiopure *C*₁ symmetric diphosphines and phosphino-phosphonites with *ortho*-phenylene backbones

Tetrahedron: Asymmetry 12 (2001) 1159

Konstantin W. Kottsieper, Uwe Kühner and Othmar Stelzer*

Fachbereich 9, Anorganische Chemie, Bergische Universität-GH Wuppertal, D-42097 Wuppertal, Germany

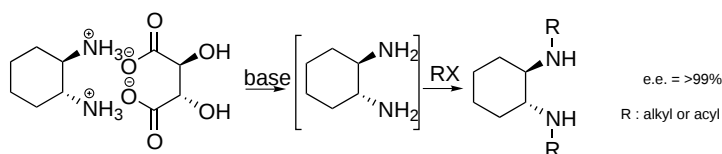


A practical and efficient synthesis of chiral *N,N*-disubstituted *C*₂ symmetric diamines derived from (*R,R*)-1,2-diaminocyclohexane

Tetrahedron: Asymmetry 12 (2001) 1171

Alexandre Alexakis,* Anne-Sophie Chauvin, Ricardo Stouvenel, Emmanuel Vrancken, Stéphane Mutti and Pierre Mangeney

Department of Organic Chemistry, University of Geneva, 30 quai Ernest Ansermet, CH-1211 Geneva 4, Switzerland



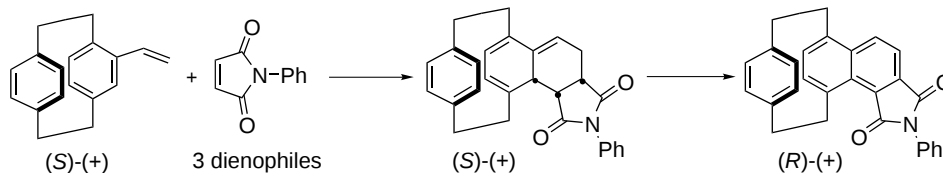
Stereoselective synthesis of enantiopure condensed [2.2]paracyclophanes

Tetrahedron: Asymmetry 12 (2001) 1179

L. Minuti,^{a,*} A. Taticchi,^{a,*} A. Marrocchi,^a L. Costantini^a and E. Gacs-Baitz^b

^aDipartimento di Chimica, Università degli Studi di Perugia, Via Elce di Sotto 8, 06123 Perugia, Italy

^bCentral Institute for Chemistry, Hungarian Academy of Sciences, PO Box 17, 1525 Budapest, Hungary



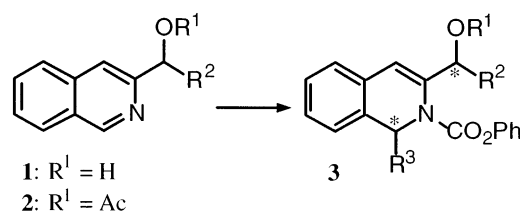
Homochiral isoquinolines by lipase-catalysed resolution and their diastereoselective functionalisation

Tetrahedron: Asymmetry 12 (2001) 1185

Giuseppe Guanti* and Renata Riva*

Dipartimento di Chimica e Chimica Industriale and C.N.R., Centro di Studio per la Chimica dei Composti Cicloalifatici ed Aromatici, via Dodecaneso 31, I-16146 Genoa, Italy

Both enantiomers of a series of optically active isoquinolines **1** and **2** were obtained in high enantiomeric excess by lipase-catalysed kinetic resolution of the corresponding racemic alcohols or acetates. The diastereoselective functionalisation of these isoquinolines by addition of C-nucleophiles to give compounds of general formula **3** was also investigated.



Stereoselective intramolecular cycloadditions of homochiral N-alkenoyl aryl azides

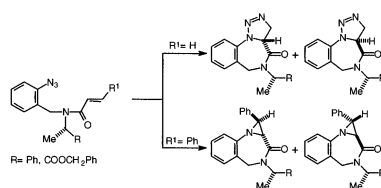
Tetrahedron: Asymmetry 12 (2001) 1201

Gianluigi Brogini,^b Luisa Garanti,^{a,*} Giorgio Molteni^a and Tullio Pilati^c

^aDipartimento di Chimica Organica e Industriale, Università di Milano, via Golgi 19, 20133 Milan, Italy

^bDipartimento di Scienze Chimiche, Fisiche e Matematiche, Università dell'Insubria, via Lucini 3, 22100 Como, Italy

^cConsiglio Nazionale delle Ricerche, Centro per lo Studio delle Relazioni tra Struttura e Reattività Chimica, via Golgi 19, 20133 Milan, Italy



Efficient resolution of prostereogenic arylaliphatic ketones using a recombinant alcohol dehydrogenase from *Pseudomonas fluorescens*

Tetrahedron: Asymmetry 12 (2001) 1207

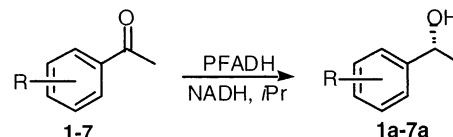
Petra Hildebrandt,^a Thomas Riermeier,^b Josef Altenbuchner^c and Uwe T. Bornscheuer^{a,*}

^aInstitute of Chemistry and Biochemistry, Department of Technical Chemistry and Biotechnology, Greifswald University, Soldmannstraße 16, D-17487 Greifswald, Germany

^bAventis Research and Technologies GmbH, Industrial Estate Hoechst, Building G830, D-65926 Frankfurt/Main, Germany

^cInstitute of Industrial Genetics, Stuttgart University, Allmandring 31, D-70569 Stuttgart, Germany

PFADH reduces acetophenone and derivatives **1-7** as well as 3-oxobutyric acid methyl ester to the corresponding (R)-alcohols with high activity and stereoselectivity. NADH can be efficiently recycled by addition of *iso*-propanol.

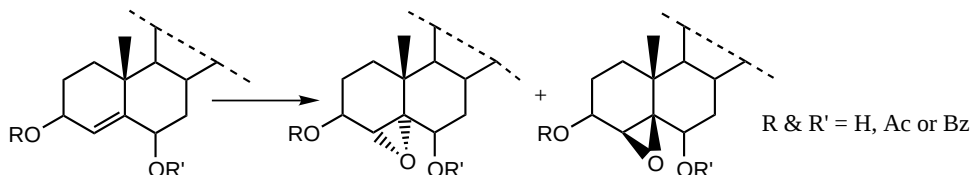


Studies on stereocontrolled epoxidations of bis-alicyclic alcohols in steroidal skeletons: preparation of eight diastereomerically pure epoxides from cholest-4-en-3 β ,6 β -; -3 β ,6 α -; -3 α ,6 β - and -3 α ,6 α -diols

Kejun Zhao, Yongfeng Wang* and David C. Billington

Pharmaceutical Sciences Research Institute, Aston University, Aston Triangle, Birmingham B4 7ET, UK

Tetrahedron: Asymmetry 12 (2001) 1211



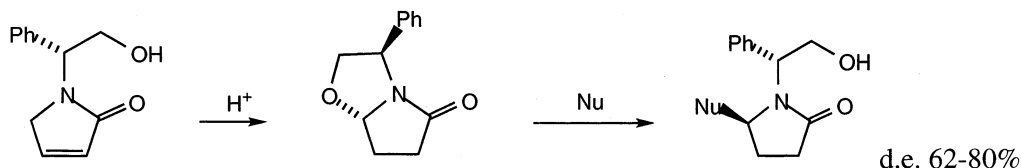
Asymmetric synthesis of 5-substituted pyrrolidinones via a chiral *N*-acyliminium equivalent

Isabelle Baussanne,^a Angèle Chiaroni^a and Jacques Royer^{a,b,*}

^aInstitut de Chimie des Substances Naturelles, CNRS, 1 avenue de la Terrasse, F-91198 Gif-sur-Yvette, France

^bLaboratoire de Chimie Thérapeutique, UMR 8638 associée au CNRS et à l'Université René Descartes, Faculté de Pharmacie, 4 avenue de l'Observatoire, 75270 Paris cedex, France

Tetrahedron: Asymmetry 12 (2001) 1219

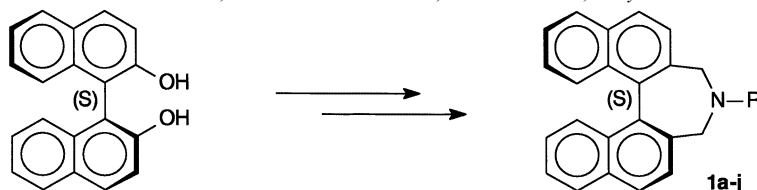


1,1'-Binaphthylazepine-based ligands for asymmetric catalysis. Part 1: Preparation and characterization of some new aminoalcohols and diamines

Tommaso Mecca, Stefano Superchi, Egidio Giorgio and Carlo Rosini*

Dipartimento di Chimica, Università della Basilicata, Via Nazario Sauro 85, 85100 Potenza, Italy

Tetrahedron: Asymmetry 12 (2001) 1225

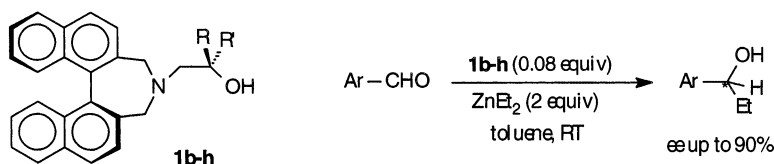


1,1'-Binaphthylazepine-based ligands for asymmetric catalysis. Part 2: New aminoalcohols as chiral ligands in the enantioselective addition of ZnEt₂ to aromatic aldehydes

Stefano Superchi, Tommaso Mecca, Egidio Giorgio and Carlo Rosini*

Dipartimento di Chimica, Università della Basilicata, Via Nazario Sauro 85, 85100 Potenza, Italy

Tetrahedron: Asymmetry 12 (2001) 1235



Preparation and use of MeO-PEG-supported chiral diphosphine ligands: soluble polymer-supported catalysts for asymmetric hydrogenation

Tetrahedron: Asymmetry 12 (2001) 1241

Qing-Hua Fan,^{a,*} Guo-Jun Deng,^a Chi-Ching Lin^b and Albert S. C. Chan^{b,*}

^aLMRSS, Center for Molecular Science, Institute of Chemistry, The Chinese Academy of Sciences, Beijing 100080, China

^bOpen Laboratory of Chirotechnology and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, China

