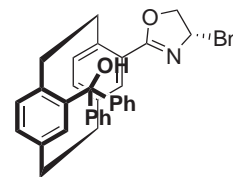
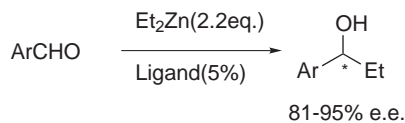


Synthesis of novel *N,O*-planar chiral [2,2]paracyclophane ligands and their application as catalysts in the addition of diethylzinc to aldehydes

Xun-Wei Wu,^a Xue-Long Hou,^{a,b,*} Li-Xin Dai,^a
Ju Tao,^a Bo-Xun Cao^a and Jie Sun^a

^aLaboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China

^bShanghai–Hong Kong Joint Laboratory in Chemical Synthesis, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China



Tetrahedron: Asymmetry 12 (2001) 529

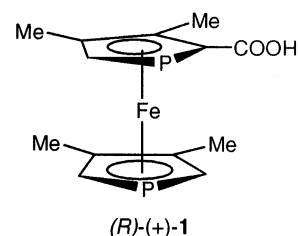
Resolution and determination of the absolute configuration of 3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid

Arkadiusz Klys,^a Janusz Zakrzewski,^{a,*} Agnieszka Rybarczyk-Pirek^b
and Tomasz A. Olszak^b

^aDepartment of Organic Chemistry, University of Łódź, Narutowicza 68, 90-136 Łódź, Poland

^bDepartment of Crystallography, University of Łódź, Pomorska 149/153, 90-236 Łódź, Poland

Racemic 3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxylic acid **1** was resolved via diastereomeric salts with brucine. The (*R*)-absolute configuration of (+)-**1** was determined by X-ray crystallography.



Tetrahedron: Asymmetry 12 (2001) 533

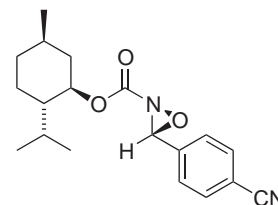
Asymmetric electrophilic amination of enolates by a chiral *N*-alkoxycarbonyloxaziridine

Alan Armstrong,^{a,*} Mark A. Atkin^a and Steven Swallow^b

^aDepartment of Chemistry, Imperial College of Science, Technology and Medicine, London SW7 2AY, UK

^bRoche Discovery Welwyn, Broadwater Road, Welwyn Garden City, Herts. AL7 3AY, UK

A new chiral 3-aryl-*N*-alkoxycarbonyloxaziridine, derived from menthol, was prepared and tested as a reagent for asymmetric electrophilic amination of enolates.



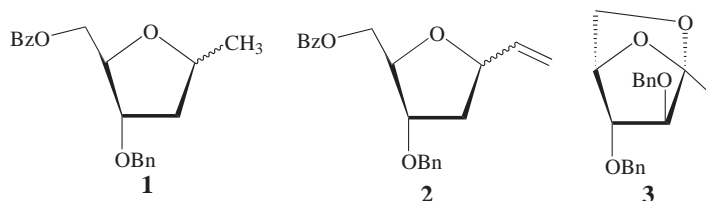
Tetrahedron: Asymmetry 12 (2001) 535

Pd(II)-mediated synthesis of 2-deoxy- and rare-*C*-glycosides

G. V. M. Sharma,* A. Subhash Chander and
Palakodety Radha Krishna

Discovery Laboratory D-211, Organic Chemistry Division III, Indian Institute of Chemical Technology, Hyderabad 500 007, India

The synthesis of 2-deoxy-*C*-methyl glycoside **1**, 2-deoxy-*C*-vinyl glycoside **2** and rare-*C*-methyl glycoside **3** is described



Tetrahedron: Asymmetry 12 (2001) 539

Mapping the substrate selectivity of new hydrolases using colorimetric screening: lipases from *Bacillus thermocatenulatus* and *Ophiostoma piliferum*, esterases from *Pseudomonas fluorescens* and *Streptomyces diastatochromogenes*

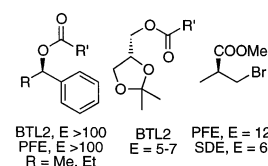
Tetrahedron: Asymmetry 12 (2001) 545

Andrew Man Fai Liu,^a Neil A. Somers,^a Romas J. Kazlauskas,^{a,*} Terry S. Brush,^b Frank Zocher,^c Markus M. Enzelberger,^c Uwe T. Bornscheuer,^c Geoff P. Horsman,^a Alessandra Mezzetti,^a Claudia Schmidt-Dannert^c and Rolf D. Schmid^c

^aMcGill University, Department of Chemistry, 801 Sherbrooke St. W., Montréal, Quebec, Canada

^bClariant Corporation, Biotechnology Research Division, 128 Spring St., Suite 1, Lexington, MA 02421, USA

^cStuttgart University, Institute for Technical Biochemistry, Allmandring 31, D-70569 Stuttgart, Germany



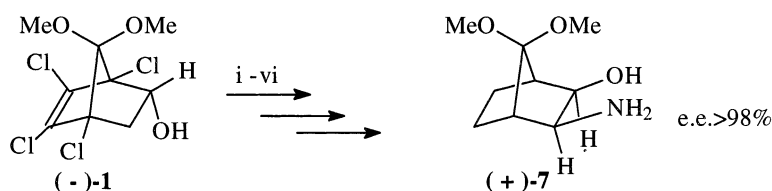
We rapidly screened a library of 23 chiral and 29 achiral esters to map the substrate selectivity of the hydrolases in the title. We identified several highly or moderately enantioselective reactions.

An efficient synthesis of enantiopure (+)- and (-)-3-*exo*-amino-7,7-dimethoxynorbornan-2-*exo*-ols

Tetrahedron: Asymmetry 12 (2001) 557

Alexandre A. M. Lapis, Olyr C. Kreutz, Adriana R. Pohlmann and Valentim E. U. Costa*

Instituto de Química, Universidade Federal do Rio Grande do Sul, Av. Bento Gonçalves, 9500, 91501-970 Porto Alegre RS, Brazil

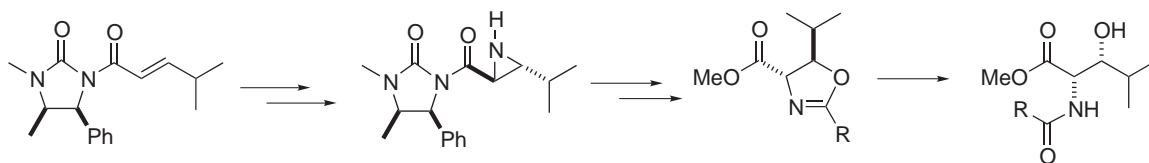


Asymmetric synthesis of 5-isopropyl-oxazoline-4-imide as *syn*-hydroxyleucine precursor

Tetrahedron: Asymmetry 12 (2001) 563

Giuliana Cardillo,* Luca Gentilucci, Massimo Gianotti and Alessandra Tolomelli

Dipartimento di Chimica 'G.Ciamician' and C.S.F.M., Università di Bologna, Via Selmi 2, 40126 Bologna, Italy

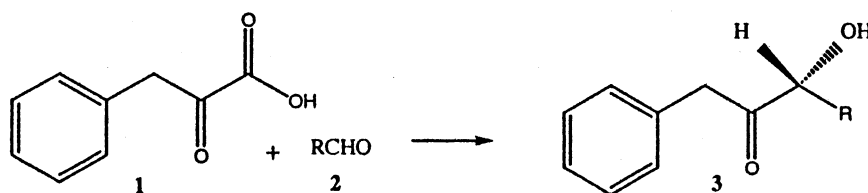


Asymmetric acyloin condensation catalysed by phenylpyruvate decarboxylase. Part 2: Substrate specificity and purification of the enzyme

Tetrahedron: Asymmetry 12 (2001) 571

Zhiwei Guo, Animesh Goswami, Venkata B. Nanduri and Ramesh N. Patel*

Process Research & Development, Bristol-Myers Squibb Pharmaceutical Research Institute, New Brunswick, NJ 08903, USA



A practical and efficient preparation of (–)-(4a*S*,5*R*)-4,4a,5,6,7,8-hexahydro-4a,5-dimethyl-2(3*H*)-naphthalenone: a key intermediate in the synthesis of (–)-dehydrofukinone

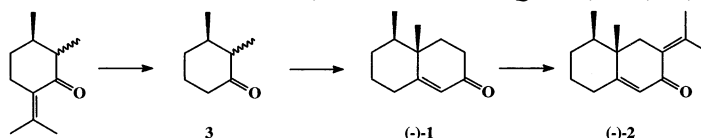
Tetrahedron: Asymmetry 12 (2001) 579

Rossana A. Schenato,^b Éverton M. dos Santos,^a Beatriz S. M. Tenius,^{a,*} Paulo R. R. Costa,^b Ignez Caracelli^c and Julio Zukerman-Schpector^c

^aInstituto de Química, Universidade Federal do Rio Grande do Sul, Av. Bento Gonçalves, 9500-9150-970 Porto Alegre, Brazil

^bNPPN, Universidade Federal do Rio de Janeiro, Rio de Janeiro, RJ, Brazil

^cDepartamento de Química, Universidade Federal de São Carlos, SP and Instituto de Química, USP, SP, Brazil



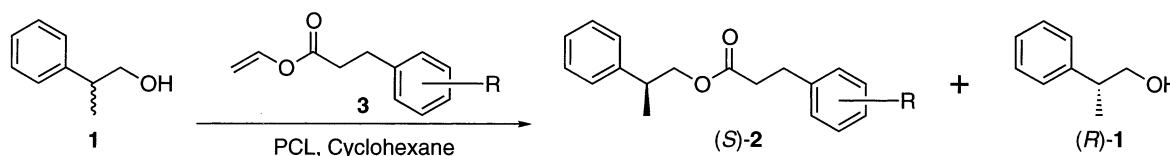
The effect of vinyl esters on the enantioselectivity of the lipase-catalysed transesterification of alcohols

Tetrahedron: Asymmetry 12 (2001) 585

Masashi Kawasaki,^{a,*} Michimasa Goto,^b Shigeki Kawabata^a and Tadashi Kometani^b

^aDepartment of Liberal Arts and Sciences, Faculty of Engineering, Toyama Prefectural University, 5180 Kurokawa, Kosugi-Machi, Toyama 939-0398, Japan

^bDepartment of Chemical and Biochemical Engineering, Toyama National College of Technology, 13 Hongo, Toyama 939-8630, Japan



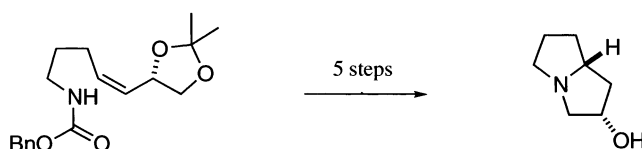
Intramolecular amidomercurations under allylic control: a stereoselective synthesis of (+)-pseudohygroline and (+)-3-hydroxypyrrolizidine

Tetrahedron: Asymmetry 12 (2001) 597

Gina Enierga,^a Maria Espiritu,^a Patrick Perlmutter,^{a,*} Ngoc Pham,^a Mark Rose,^a Stefan Sjöberg,^b Neeranat Thienthong^a and Katie Wong^a

^aDepartment of Chemistry, Monash University, PO Box 23, Victoria 3800, Australia

^bDepartment of Organic Chemistry, Uppsala University, Uppsala, Sweden



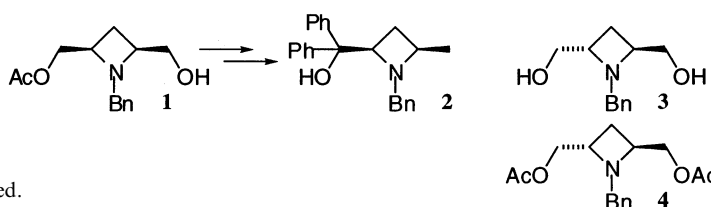
Synthesis of chiral non-racemic azetidines by lipase-catalysed acetylations and their transformation into amino alcohols: precursors of chiral catalysts

Tetrahedron: Asymmetry 12 (2001) 605

Giuseppe Guanti* and Renata Riva*

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

The synthesis of optically active azetidines, by lipase-catalysed asymmetrisation in the case of **1** or by double sequential kinetic resolution in the cases of **3** and **4**, is reported. The transformation of **1** into chiral amino alcohol **2**, a precursor of oxazaborolidine homogeneous catalysts, was also investigated.



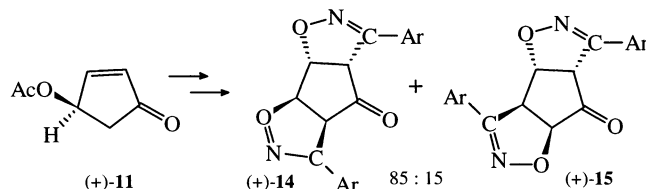
Synthesis of enantiopure bis-isoxazolines from (4*R*)-(+)-4-acetoxycyclopent-2-enone

Tetrahedron: Asymmetry 12 (2001) 619

Giorgio Adembri,^a M. Laura Paoli,^a Patrizia Rossi^b and Alessandro Segà^{a,*}

^aDipartimento Farmaco Chimico Tecnologico, Via Aldo Moro, 53100 Siena, Italy

^bDipartimento di Energetica, Via di Santa Marta 3, 50139 Florence, Italy



Enzymatic resolution of bicyclic 1,3-amino alcohols in organic media

Tetrahedron: Asymmetry 12 (2001) 625

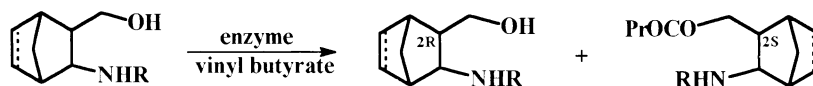
Judit Kámán,^{a,b} Johan Van der Eycken,^a Antal Péter^c and Ferenc Fülöp^{b,*}

^aDepartment of Organic Chemistry, Ghent University, Krijgslaan 281 (S.4), B-9000 Gent, Belgium

^bInstitute of Pharmaceutical Chemistry, University of Szeged, H-6701 Szeged, POB 121, Hungary

^cDepartment of Inorganic and Analytical Chemistry, University of Szeged, H-6701 Szeged, Dóm tér 7, Hungary

N-Protected racemic di-*exo*- and di-*endo*-3-aminobicyclo[2.2.1]heptane-2-methanols and di-*exo*- and di-*endo*-3-aminobicyclo[2.2.1]hept-5-ene-2-methanols were resolved through lipase-catalysed *O*-acylation.



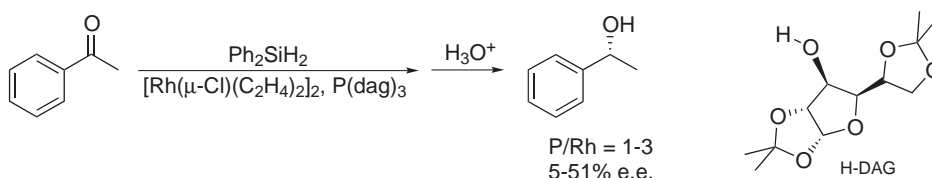
Monodentate phosphites with carbohydrate substituents and their application in rhodium catalysed asymmetric hydrosilylation reactions

Tetrahedron: Asymmetry 12 (2001) 633

Andrés Suárez,^a Antonio Pizzano,^{a,*} Inmaculada Fernández^b and Nouredine Khia^a

^aInstituto de Investigaciones Químicas, Consejo Superior de Investigaciones Científicas-Universidad de Sevilla, 41092 Sevilla, Spain

^bDpto Química Orgánica y Farmacéutica, Facultad de Farmacia, Universidad de Sevilla, 41071 Sevilla, Spain



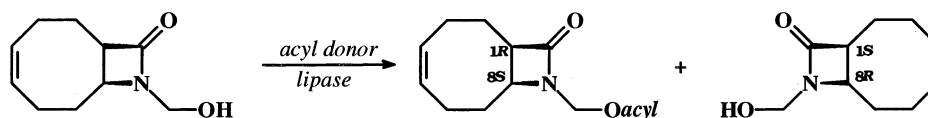
Preparation of (1*R*,8*S*)- and (1*S*,8*R*)-9-azabicyclo[6.2.0]dec-4-en-10-one: potential starting compounds for the synthesis of anatoxin-*a*

Tetrahedron: Asymmetry 12 (2001) 643

Enikő Forró, Judit Árvai and Ferenc Fülöp^{*}

Institute of Pharmaceutical Chemistry, University of Szeged, H-6701 Szeged, POB 121, Hungary

Enantiomers of 9-azabicyclo[6.2.0]dec-4-en-10-one and valuable β-amino acids were prepared through lipase PS-catalysed asymmetric acylation of 9-hydroxymethyl-9-azabicyclo[6.2.0]dec-4-en-10-one.

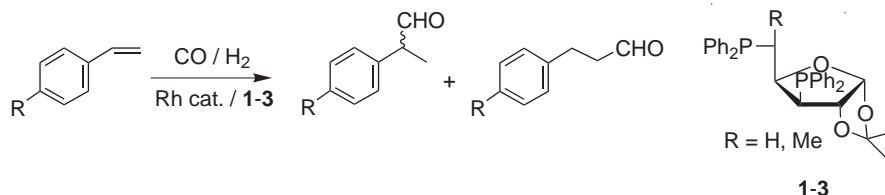


Furanoside diphosphines derived from D-(+)-xylose and D-(+)-glucose as ligands in rhodium-catalysed asymmetric hydroformylation reactions

Tetrahedron: Asymmetry 12 (2001) 651

Montserrat Diéguez,* Oscar Pàmies, Gemma Net, Aurora Ruiz* and Carmen Claver

Departament de Química Física i Inorgànica, Universitat Rovira i Virgili, Pl. Imperial Tàrraco 1, 43005 Tarragona, Spain



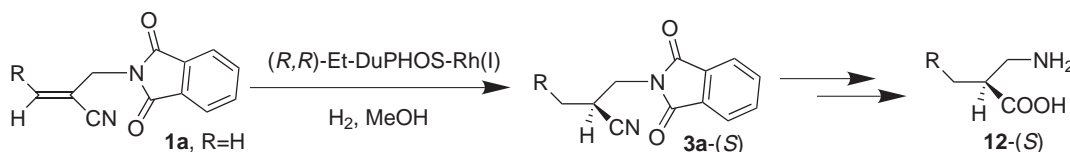
A new enantioselective synthesis of β -amino acids

Tetrahedron: Asymmetry 12 (2001) 657

Dilek Saylik,^a Eva M. Campi,^a Andrew C. Donohue,^a
W. Roy Jackson^{a,b,*} and Andrea J. Robinson^a

^a*School of Chemistry, PO Box 23, Monash University, Victoria 3800, Australia*

^b*Centre for Green Chemistry, PO Box 23, Monash University, Victoria 3800, Australia*



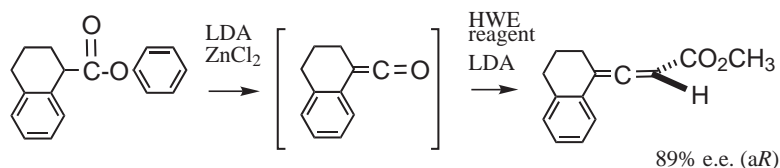
Enantioselective synthesis of allenecarboxylates from phenyl acetates through C–C bond forming reactions

Tetrahedron: Asymmetry 12 (2001) 669

Jiro Yamazaki, Toshiyuki Watanabe and Kiyoshi Tanaka*

School of Pharmaceutical Sciences, University of Shizuoka, Yada 52-1, Shizuoka 422-8526, Japan

Several 4,4-disubstituted methyl allenecarboxylates were prepared from phenyl esters with high enantioselectivity in one-flask procedure. The transformation involved the successive in situ generation of a ketene and asymmetric Horner–Wadsworth–Emmons reaction.



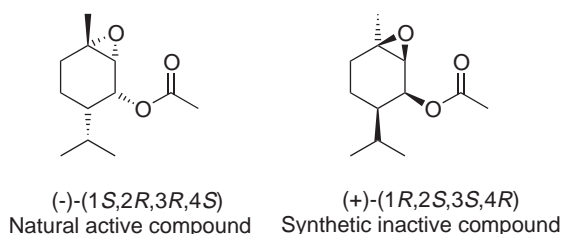
Isolation, structural assignment and insecticidal activity of (–)-(1*S*,2*R*,3*R*,4*S*)-1,2-epoxy-1-methyl-4-(1-methylethyl)-cyclohex-3-yl acetate, a natural product from *Minthostachys tomentosa*

Tetrahedron: Asymmetry 12 (2001) 677

Ángel Cantín, Cristina Lull, Jaime Primo,
Miguel A. Miranda and Eduardo Primo-Yúfera*

Instituto de Tecnología Química UPV-CSIC and

*Departamento de Química, Universidad Politécnica de Valencia,
46022 Valencia, Spain*



A novel and effective chiral phosphoramidate catalyst for the borane-mediated asymmetric reduction of prochiral α -halo ketones

Tetrahedron: Asymmetry 12 (2001) 685

Deevi Basavaiah,* Gone Jayapal Reddy and Vanampally Chandrashekar

School of Chemistry, University of Hyderabad, Hyderabad 500 046, India

