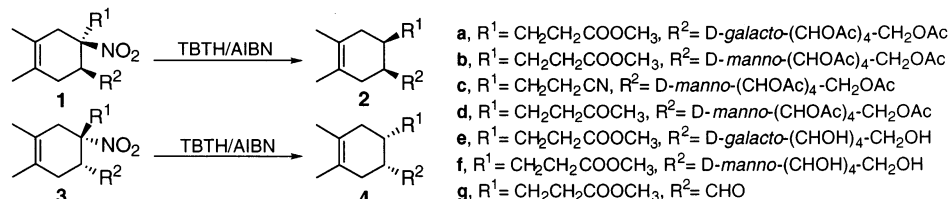


Stereoselective denitrohydrogenation reactions of 4-alkyl-5-glyco-4-nitrocyclohex-1-enes

Tetrahedron: Asymmetry 12 (2001) 1673

M. V. Gil,^a E. Román,^{a,*} J. A. Serrano,^a M. B. Hursthouse^b and M. E. Light^{b,*}
^aDepartamento de Química Orgánica, Facultad de Ciencias, Universidad de Extremadura, 06071 Badajoz, Spain

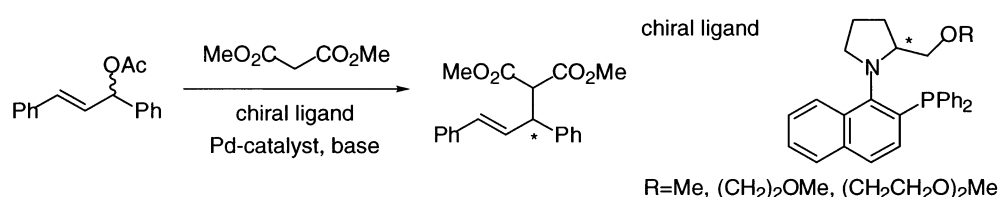
^bDepartment of Chemistry, University of Southampton, Southampton SO17 1BJ, UK


Palladium-catalyzed asymmetric allylic alkylation using chiral aminophosphine ligands

Tetrahedron: Asymmetry 12 (2001) 1677

Takashi Mino,^{*} Yoh-ichi Tanaka, Koji Akita, Kouhei Anada, Masami Sakamoto and Tsutomu Fujita

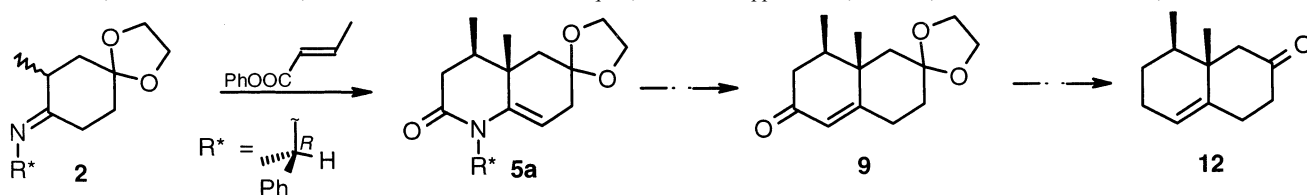
Department of Materials Technology, Faculty of Engineering, Chiba University, Inage-ku, Chiba 263-8522, Japan



Enantioselective imine Michael reaction for the preparation of the (8'R,8a'S)-8,8a'-dimethyl-1',3',4',7',8',8a'-hexahydrospiro[1,3-dioxolane-2,2'(6'H)naphthalen]-6'-one building block. A formal synthesis of (+)-valencenol

Tetrahedron: Asymmetry 12 (2001) 1683

Gilbert Revial,^a Ivan Jabin,^b Michaël Redolfi^a and Michel Pfau^{a,*}
^aLaboratoire de Chimie Organique, CNRS (ESA 7084), ESPCI, 10 rue Vauquelin, 75231 Paris Cedex 05, France

^bURCOM, Université du Havre, Faculté des Sciences et Techniques, 25 rue Philippe Lebon, BP 540, 76058 Le Havre Cedex, France


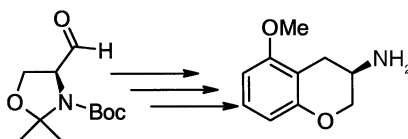
Synthesis of enantiomerically pure 3-aminochroman derivatives

Tetrahedron: Asymmetry 12 (2001) 1689

Stéphanie Usse,^a Grégoire Pave,^a Gérald Guillaumet^a and Marie-Claude Viaud-Massuard^{b,*}
^aInstitut de Chimie Organique et Analytique, UMR CNRS 6005, Université d'Orléans, BP 6759, 45067 Orléans Cedex 2, France

^bUFR Sciences Pharmaceutiques, Laboratoire de Chimie Organique, 31 avenue Monge, 37200 Tours, France

Enantiomerically pure (3R)-amino-5-methoxy-3,4-dihydro-2H-1-benzopyran was successfully synthesised in six steps starting from L-serine. The same synthetic pathway was used to prepared the (3S)-aminochroman analogue starting from D-serine.

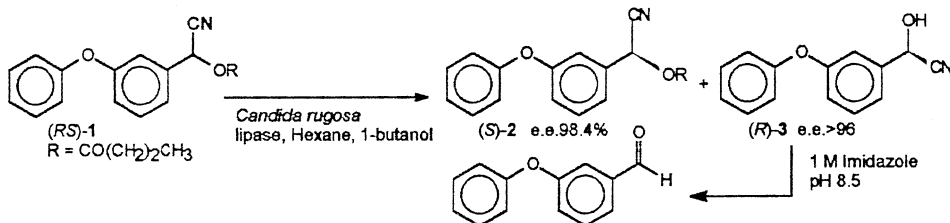


'Gelozymes' in organic synthesis. Part 2: *Candida rugosa* lipase mediated synthesis of enantiomerically pure (S)-cyano-(3-phenoxyphenyl)methyl butyrate

Nitin W. Fadnavis,* Ravi Luke Babu, Gurralla Sheelu and Ashlesha Deshpande

Biotransformations Laboratory, Indian Institute of Chemical Technology, Hyderabad 500 007, India

Tetrahedron: Asymmetry 12 (2001) 1695

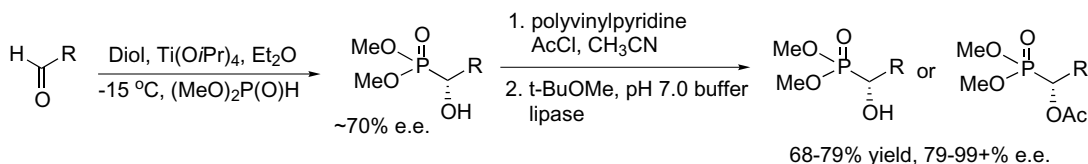


The synthesis of 1-hydroxy phosphonates of high enantiomeric excess using sequential asymmetric reactions: titanium alkoxide-catalyzed P–C bond formation and kinetic resolution

Bradley J. Rowe and Christopher D. Spilling*

Department of Chemistry and Biochemistry, University of Missouri-St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121, USA

Tetrahedron: Asymmetry 12 (2001) 1701

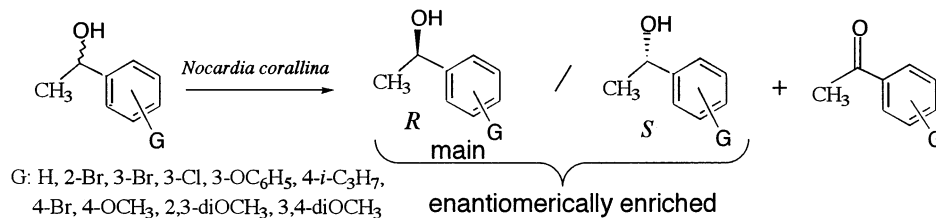


Resolution of methylaryl methanols via oxidation with *Nocardia corallina*

Herminia I. Pérez,* Héctor Luna, Norberto Manjarrez and Aida Solís

Universidad Autónoma Metropolitana, Unidad Xochimilco, Depto. Sistemas Biológicos, A.P. 23/181 Mexico, DF Mexico

Tetrahedron: Asymmetry 12 (2001) 1709



Stereoselective reduction of alkyl 3-oxobutanoate by carbonyl reductase from *Candida magnoliae*

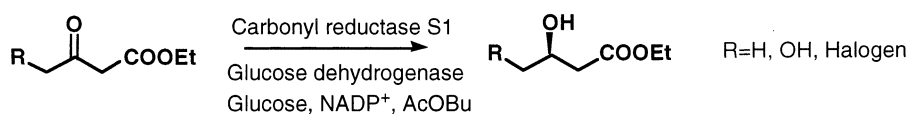
Yoshihiko Yasohara,^{a,*} Noriyuki Kizaki,^a Junzo Hasegawa,^a Masaru Wada,^b Michihiko Kataoka^c and Sakayu Shimizu^c

^aFine Chemicals Research Laboratories, Kaneka Corporation, 1-8 Miyamae, Takasago, Hyogo 676-8688, Japan

^bDepartment of Bioscience, Fukui Prefectural University, 4-1-1 Kenjyojima, Fukui 910-1195, Japan

^cDivision of Applied Life Sciences, Graduate School of Agriculture, Kyoto University, Kitashirakawa, Sakyo-ku, Kyoto 606-8502, Japan

Tetrahedron: Asymmetry 12 (2001) 1713



Synthesis of homochiral pentadentate sulfonamide-based ligands

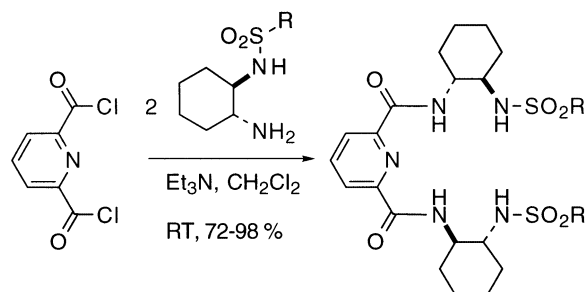
Karno Ng,^a Ratnasamy Somanathan^{b,*} and Patrick J. Walsh^{b,c,*}

^aDepartment of Chemistry, San Marcos State University, San Marcos, CA 92096, USA

^bCentro de Graduados e Investigación, Instituto Tecnológico de Tijuana, Apartado Postal 1166, 22000 Tijuana, BC Mexico

^cDepartment of Chemistry, San Diego State University, San Diego, CA 92182-1030, USA

We report the synthesis of a new class of resolved pentadentate ligands. They are readily prepared in two steps from commercially available materials.

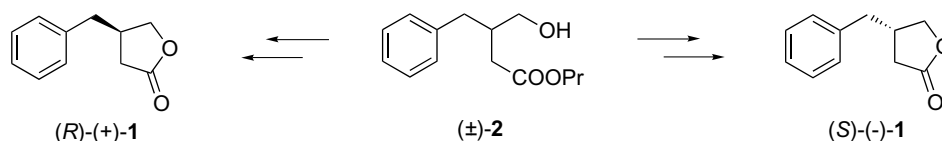


Tetrahedron: Asymmetry 12 (2001) 1719

Synthesis of optically active β -benzyl- γ -butyrolactone through lipase-catalyzed kinetic resolution

Yolanda Caro, Christian F. Masaguer and Enrique Raviña*

Departamento de Química Orgánica, Laboratorio de Química Farmacéutica, Facultad de Farmacia, Universidad de Santiago de Compostela, E-15782 Santiago de Compostela, Spain



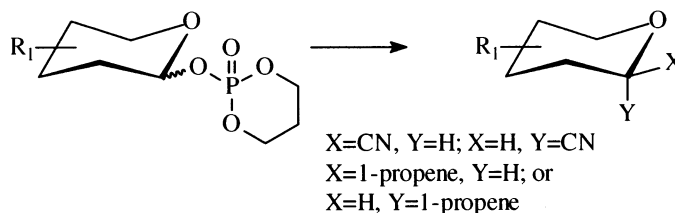
Tetrahedron: Asymmetry 12 (2001) 1723

Efficient stereocontrolled synthesis of C-glycosides using glycosyl donors substituted by propane 1,3-diyl phosphate as the leaving group

Gurdial Singh* and Hariprasad Vankayalapati

Department of Chemistry, University of Sunderland, Sunderland SR1 3SD, UK

The synthesis of α - or β -glycosyl cyanides, per-*O*-acetyl-1,2-*O*-1-cyanoethylidenes and *C*-allyl glycopyranosides were efficiently prepared by treatment of 2,3,4-tri-*O*-acetyl- α,β -L-rhamno-, L-fuco- and 2,3,4,6-tetra-*O*-acetyl- α,β -D-galactopyranosyl propane-1,3-diyl phosphates with trimethylsilyl cyanide and allyltrimethylsilane in the presence of trimethylsilyl triflate. 2,3,4,6-Tetra-*O*-benzyl- α,β -D-manno- and D-glucopyranosyl propane-1,3-diyl phosphates gave the corresponding C-glycosides.

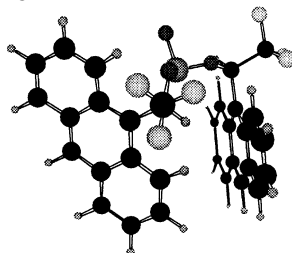


Tetrahedron: Asymmetry 12 (2001) 1727

Di[(*S*)-1-(9-anthryl)-2,2,2-trifluoroethyl]sulphite, a case of diastereotopic anthracene groups

Marta Sánchez, Itziar Maestre, Carlos Jaime and Albert Virgili*

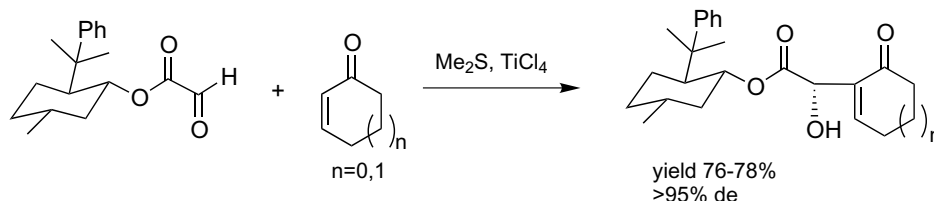
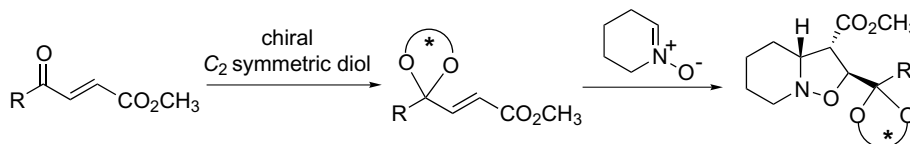
Departament de Química, Unitat de Química Orgànica, Universitat Autònoma de Barcelona, 08193 Cerdanyola, Barcelona, Spain



Tetrahedron: Asymmetry 12 (2001) 1737

Asymmetric Morita–Baylis–Hillman reaction of chiral glyoxylates*Tetrahedron: Asymmetry 12 (2001) 1741*

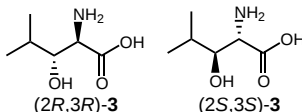
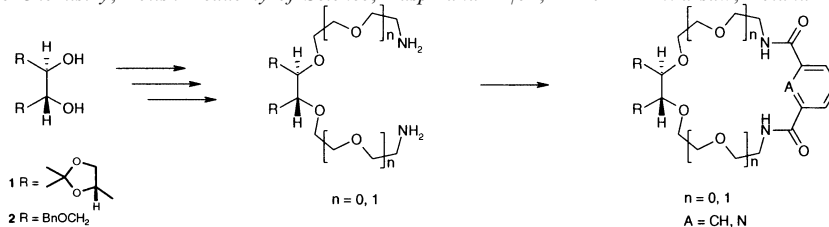
Tomasz Bauer* and Joanna Tarasiuk

Department of Chemistry, Warsaw University, Pasteura 1, PL-02-093 Warsaw, Poland**Acetals of γ -oxo- α,β -unsaturated esters in nitron cycloadditions. Regio- and stereochemical implications***Tetrahedron: Asymmetry 12 (2001) 1747*Ramon Alibés,^a Félix Busquè,^a Pedro de March,^{a,*} Marta Figueredo,^a Josep Font,^a Maria Esmeralda Gambino^a and Brian A. Keay^b^a*Departament de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Spain*^b*Department of Chemistry, University of Calgary, Calgary, Alberta, Canada T2N 1N4***Efficient enantioselective synthesis of (2*R*,3*R*)- and (2*S*,3*S*)-3-hydroxyleucines and their diastereomers through dynamic kinetic resolution***Tetrahedron: Asymmetry 12 (2001) 1757*

Kazuishi Makino, Naoki Okamoto, Osamu Hara and Yasumasa Hamada*

Graduate School of Pharmaceutical Sciences, Chiba University, Yayoi-cho, Inage-ku, Chiba 263-8522, Japan

(2*R*,3*R*)- and (2*S*,3*S*)-3-Hydroxyleucines, which are components of cyclodepsipeptides, papuamides and polyoxypeptins, were efficiently synthesized along with their diastereomers from the corresponding β -keto- α -amino acid ester through dynamic kinetic resolution using $\text{RuCl}_2(\text{binap})$ -catalyzed hydrogenation.

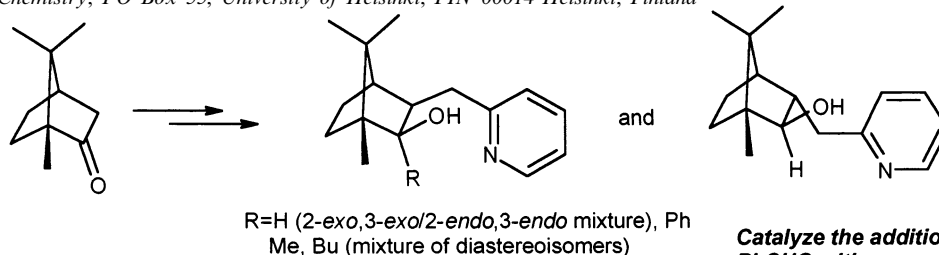
**Chiral α,ω -diaminoethers derived from D-mannitol and L-treitol as building blocks for the synthesis of macrocyclic compounds possessing 1,3-benzenedicarboxamide or 2,6-pyridinedicarboxamide subunits***Tetrahedron: Asymmetry 12 (2001) 1763*Piotr Piątek,^a Mariusz M. Gruz^a and Janusz Jurczak^{a,b,*}^a*Department of Chemistry, University of Warsaw, Pasteura 1, PL-02-093 Warsaw, Poland*^b*Institute of Organic Chemistry, Polish Academy of Science, Kasprzaka 44/52, PL-01-224 Warsaw, Poland*

(+)-Camphor-derived amino alcohols as ligands for the catalytic enantioselective addition of diethylzinc to benzaldehydes

Tetrahedron: Asymmetry 12 (2001) 1771

Marta Nevalainen and Vesa Nevalainen*

Department of Chemistry, PO Box 55, University of Helsinki, FIN-00014 Helsinki, Finland



Catalyze the addition of Et₂Zn to PhCHO with ees up to 89%

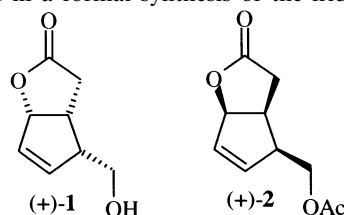
Enantioselective syntheses of isoprostane and iridoid lactones intermediates by enzymatic transesterification

Tetrahedron: Asymmetry 12 (2001) 1779

Giuseppe Zanon, Fabio Agnelli, Alessia Meriggi and Giovanni Vidari*

Dipartimento di Chimica Organica, Università di Pavia, Viale Taramelli 10, 27100 Pavia, Italy

Enzymatic resolution of (±)-**1** by acylation with *Pseudomonas cepacia* lipase (Amano PS-30) afforded (+)-**1** and (+)-**2** with e.e. of ≥95%. Acetate (+)-**2** was utilized in a formal synthesis of the iridoids (+)-isoiridomyrmecin and (–)-teucriumlactone.



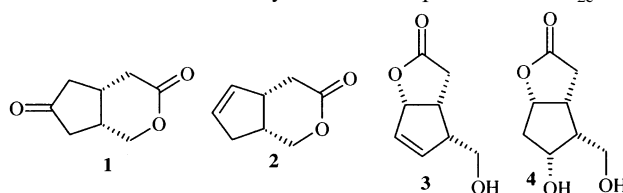
Enantioselective synthesis of *cis*-1,2-dialkyl substituted cyclopentanoid and isoprostane building blocks via 6-*exo*-trigonal radical cyclizations

Tetrahedron: Asymmetry 12 (2001) 1785

Giuseppe Zanon, Savino Re, Alessia Meriggi, Francesca Castronovo and Giovanni Vidari*

Dipartimento di Chimica Organica, Università di Pavia, Viale Taramelli 10, 27100 Pavia, Italy

Enantiomerically enriched lactones **1–4** were obtained by two different asymmetric 6-*exo*-trigonal cyclizations of 6-heptenyl radicals and subsequent chemical reactions. A formal synthesis of isoprostanes 15-F_{2c}-IsoP and *ent*-15-F_{2c}-IsoP was accomplished.

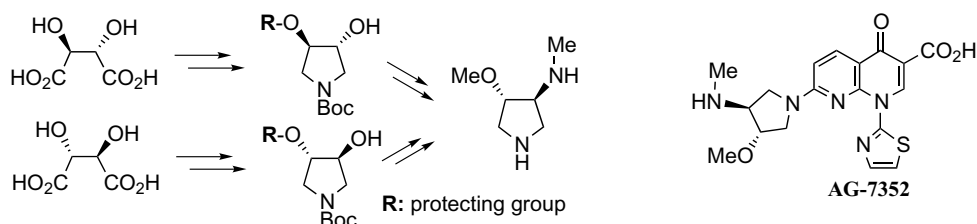


Efficient stereospecific synthesis of (*S,S*)-3-methoxy-4-methylaminopyrrolidine

Tetrahedron: Asymmetry 12 (2001) 1793

Yasunori Tsuzuki,* Katsumi Chiba and Katsuhiko Hino

Discovery Research Laboratories, Daiippon Pharmaceutical Co. Ltd., Enoki 33-94, Suita, Osaka 564-0053, Japan



Rhodium versus ruthenium: contrasting behaviour in the asymmetric transfer hydrogenation of α -substituted acetophenones

Tetrahedron: Asymmetry 12 (2001) 1801

David J. Cross,^a Jennifer A. Kenny,^a Ian Houson,^b Lynne Campbell,^b Tim Walsgrove^c and Martin Wills^{a,*}

^aDepartment of Chemistry, The University of Warwick, Coventry CV4 7AL, UK

^bAvecia Huddersfield Works, PO Box A38, Leeds Road, Huddersfield, Yorkshire HD2 1FF, UK

^cGlaxoSmithKline Pharmaceuticals, Old Powder Mills, Nr. Leigh, Tonbridge, Kent TN11 9AN, UK

