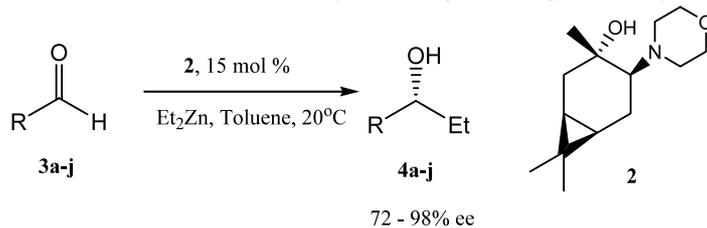
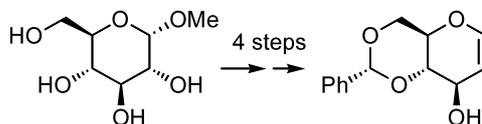
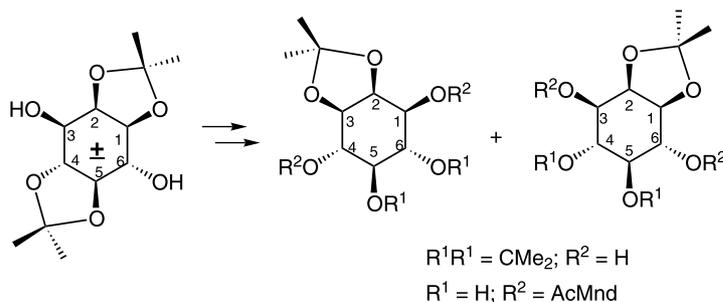
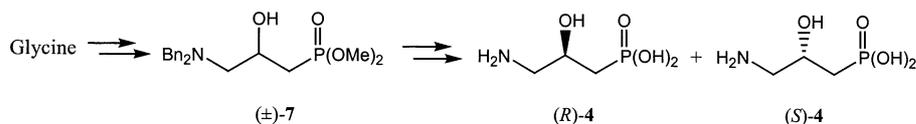


Enantioselective addition of diethylzinc to aldehydes catalyzed by a β -amino alcohol derived from (+)-3-carene*Tetrahedron: Asymmetry 14 (2003) 1763*

Sudhir N. Joshi and Sanjay V. Malhotra*

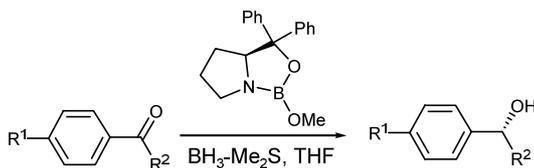
Department of Chemistry and Environmental Science, New Jersey Institute of Technology, University Heights, Newark, NJ, USA**A facile synthesis of 4,6-*O*-benzylidene glucal***Tetrahedron: Asymmetry 14 (2003) 1767*David J. Chambers,^a Graham R. Evans^b and Antony J. Fairbanks^{a,*}^a*Dyson Perrins Laboratory, Oxford University, South Parks Road, Oxford OX1 3QY, UK*^b*Celltech R & D, Granta Park, Great Abington, Cambridge CB1 6GS, UK***A simple and practical resolution of 1,2:4,5-di-*O*-isopropylidene-*myo*-inositol***Tetrahedron: Asymmetry 14 (2003) 1771*Kana M. Sureshan, Toru Yamasaki,
Minoru Hayashi and Yutaka Watanabe**Department of Applied Chemistry, Faculty of Engineering,
Ehime University, Matsuyama 790-8577, Japan***Preparation of (*R*)- and (*S*)- γ -amino- β -hydroxypropylphosphonic acid from glycine***Tetrahedron: Asymmetry 14 (2003) 1775*Mario Ordóñez,* Angelina González-Morales, César Ruíz, Ricardo De la Cruz-Cordero
and Mario Fernández-Zertuche*Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos, Av. Universidad No. 1001. 62210 Cuernavaca,
Mor., Mexico*

Preparation of highly enantiomerically pure linear secondary alcohols via asymmetric reduction of prochiral ketones with borane

Tetrahedron: Asymmetry 14 (2003) 1781

Jiayi Xu,* Xianbin Su and Qihan Zhang

Key Laboratory of Bioorganic Chemistry and Molecular Engineering of Ministry of Education, Department of Chemical Biology, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China



a: R¹ = Et, R² = Me; b: R¹ = *n*-Pr, R² = Me; c: R¹ = *n*-Bu, R² = Me;
d: R¹ = *n*-Am, R² = Me; e: R¹ = *n*-Am, R² = Et; f: R¹ = *n*-Am, R² = *n*-Pr;
g: R¹ = *n*-BuO, R² = Et; h: R¹ = *n*-BuO, R² = *n*-Bu; i: R¹ = *n*-AmO,
R² = Et; j: R¹ = *n*-AmO, R² = *n*-Bu; k: R¹ = *n*-HexO, R² = Et;
l: R¹ = *n*-HexO, R² = *n*-Bu; m: R¹ = *n*-BuS, R² = Et.

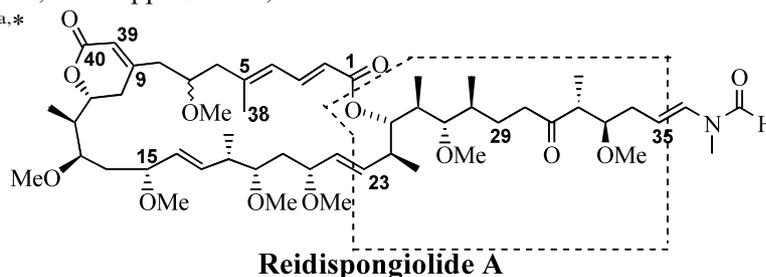
Stereochemical assignment of the C23–C35 portion of sphinxolide/reidispongiolide class of natural products by asymmetric synthesis

Tetrahedron: Asymmetry 14 (2003) 1787

Angela Zampella,^a Valentina Sepe,^a Rosa D'Orsi,^a Giuseppe Bifulco,^b
Carla Bassarello^b and Maria Valeria D'Auria^{a,*}

^aDipartimento di Chimica delle Sostanze Naturali, Università degli Studi di Napoli "Federico II", via D. Montesano 49, 80131 Naples, Italy

^bDipartimento di Scienze Farmaceutiche, Università degli Studi di Salerno, Via Ponte Don Melillo, 84084 Fisciano (Salerno), Italy



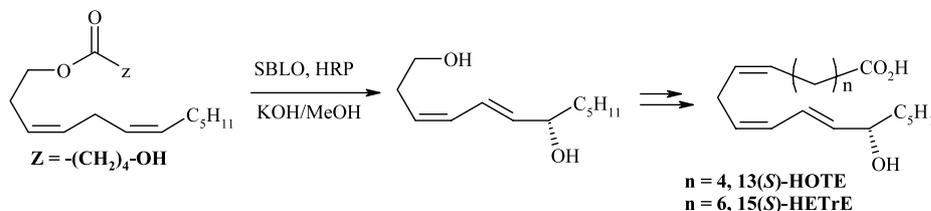
Reidispongiolide A

Asymmetric synthesis of unnatural (Z,Z,E)-octadecatrienoid and eicosatrienoid by lipoxygenase-catalyzed oxygenation

Tetrahedron: Asymmetry 14 (2003) 1799

S. Nanda* and J. S. Yadav

Organic Division, Indian Institute of Chemical Technology, Hyderabad 500007, India



Towards a novel explanation of *Pseudomonas cepacia* lipase enantioselectivity via molecular modelling of the enantiomer trajectory into the active site

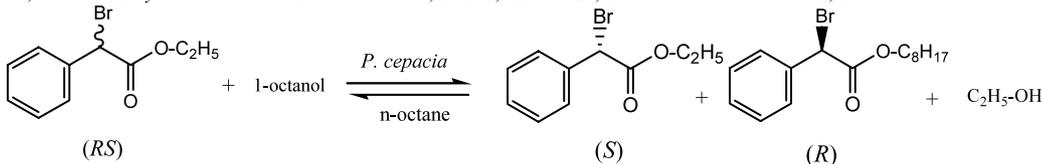
Tetrahedron: Asymmetry 14 (2003) 1807

David Guieysse,^a Christophe Salagnad,^b Pierre Monsan,^a Magali Remaud-Simeon^{a,*} and Vinh Tran^c

^aCentre de Bioingénierie Gilbert Durand, Département de Génie Biochimique et Alimentaire, UMR CNRS 5504, UMR INRA 792, INSA, 135 Avenue de Ranguel, F-31077 Toulouse Cedex 4, France

^bAventis Pharma, Process Development Biotechnology, 9, quai Jules Guesde, F-94400 Vitry sur Seine, France

^cCentre de Nantes, Unité de Physicochimie des Macromolécules, INRA, BP 71627, F-44316 Nantes Cedex 3, France

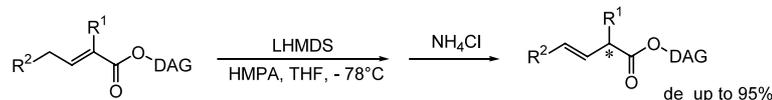


Anionic versus photochemical diastereoselective deconjugation of diacetone D-glucose α,β -unsaturated esters

Tetrahedron: Asymmetry 14 (2003) 1819

Frédéric Bargiggia and Olivier Piva*

Laboratoire de Chimie Organique, Photochimie et Synthèse, UMR CNRS 5622, Université Claude Bernard, Lyon I, 43, Boulevard du 11 novembre 1918, 69622 Villeurbanne, France



Synthesis of chiral, nonracemic α -sulfanylphosphonates and derivatives

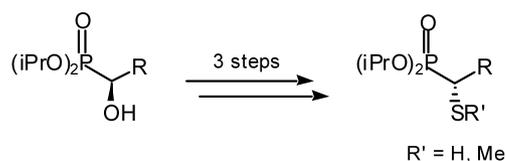
Tetrahedron: Asymmetry 14 (2003) 1829

Mihaela Gulea,^a Friedrich Hammerschmidt,^{b,*} Patrice Marchand,^a Serge Masson,^{a,*} Violeta Pisljagic^b and Frank Wuggenig^b

^aLaboratoire de Chimie Moléculaire et Thioorganique, ISMRA-Université de Caen et CNRS, 6 boulevard du Maréchal Juin, F-14050 Caen, France

^bInstitut für Organische Chemie der Universität Wien, Währingerstrasse 38, A-1090 Wien, Austria

Optically active α -sulfanylphosphonates and the corresponding methyl sulfides were prepared in three steps starting from chiral, nonracemic (ee 93–97%) α -hydroxyphosphonates obtained by enzymatic resolution. Reaction conditions for the reduction of racemisation-prone substrates were found to preserve the enantiomeric excesses.



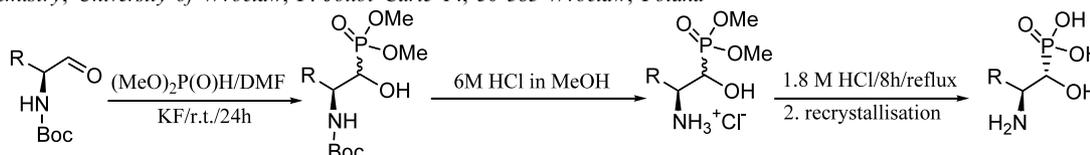
Stereoselective synthesis, solution structure and metal complexes of (1*S*,2*S*)-2-amino-1-hydroxyalkylphosphonic acids

Tetrahedron: Asymmetry 14 (2003) 1837

Marcin Drag,^a Rafal Latajka,^a Elzbieta Gumienna-Kontecka,^b Henryk Kozlowski^b and Pawel Kafarski^{a,*}

^aInstitute of Organic Chemistry, Biochemistry and Biotechnology, University of Technology, Wybrzeze Wyspianskiego 27, 50-370 Wroclaw, Poland

^bFaculty of Chemistry, University of Wroclaw, F. Joliot Curie 14, 50-383 Wroclaw, Poland

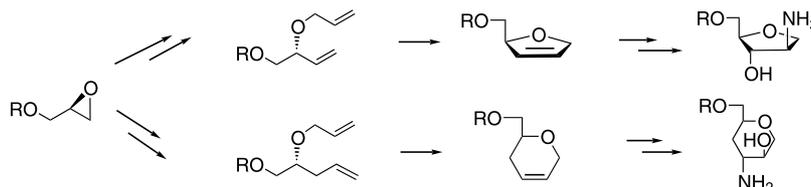


Synthesis of amino-1,4-anhydro-D-pentitols and amino-1,5-anhydro-D-hexitols with the *arabino* configuration from (*R*)-glycidol

Tetrahedron: Asymmetry 14 (2003) 1847

Sílvia Aragonès, Fernando Bravo,* Yolanda Díaz, M^a Isabel Matheu and Sergio Castellón*

Departament de Química Analítica i Química Orgànica, Facultat de Química, Universitat Rovira i Virgili, Pl. Imperial Tàrraco 1, 43005 Tarragona, Spain

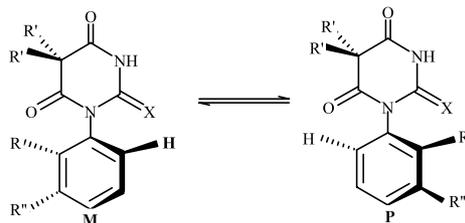


Determination of energy barriers and racemization mechanisms for thermally interconvertible barbituric and thiobarbituric acid enantiomers

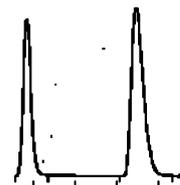
Tetrahedron: Asymmetry 14 (2003) 1857

S. Funda Oğuz and İlknur Doğan*

Boğaziçi University, Chemistry Department, Bebek, Istanbul, Turkey



Chiralcel OD-H

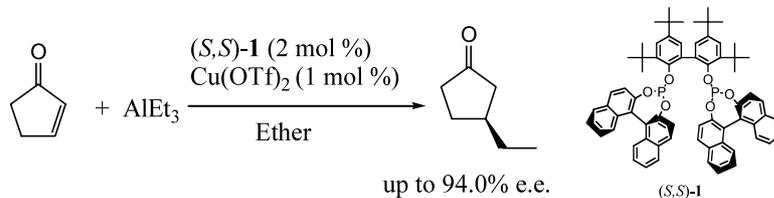


Copper-catalyzed enantioselective conjugate addition of triethylaluminum to 2-cyclopentenone

Tetrahedron: Asymmetry 14 (2003) 1865

Liming Su, Xingshu Li,* Wing Lai Chan,* Xian Jia and Albert S. C. Chan*

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, China

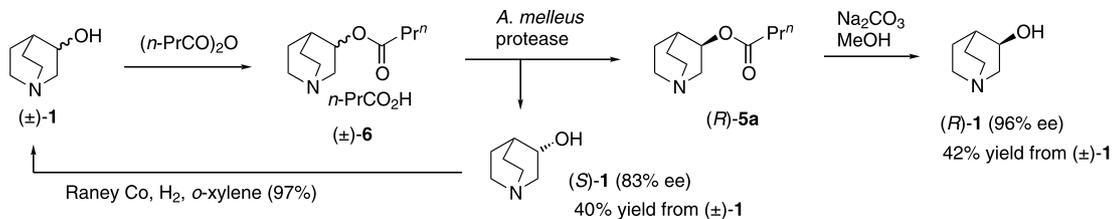


A practical chemoenzymatic process to access (*R*)-quinuclidin-3-ol on scale

Tetrahedron: Asymmetry 14 (2003) 1871

Fumiki Nomoto,* Yoshihiko Hirayama, Masaya Ikonaka,* Toru Inoue and Koutaro Otsuka

Research and Development Center, Nagase & Co., Ltd., 2-2-3 Murotani, Nishi-ku, Kobe 651-2241, Japan



Synthesis and conformational study of homo-peptides based on (*S*)-Bin, a C_2 -symmetric binaphthyl-derived $C^{\alpha,\alpha}$ -disubstituted glycine with only axial chirality

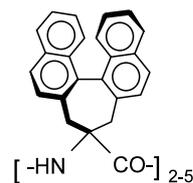
Tetrahedron: Asymmetry 14 (2003) 1879

Jean-Paul Mazaleyrat,^a Karen Wright,^a Anne Gaucher,^a Michel Wakselman,^a Simona Oancea,^b Fernando Formaggio,^b Claudio Toniolo,^{b,*} Vladimir Setnička,^c Josef Kapitán^c and Timothy A. Keiderling^c

^aSIRCOB, UMR CNRS 8086, Bât. Lavoisier, University of Versailles, F-78035 Versailles, France

^bInstitute of Biomolecular Chemistry, CNR, Department of Organic Chemistry, University of Padua, I-35131 Padua, Italy

^cDepartment of Chemistry, University of Illinois at Chicago, Chicago, IL 60607-7061, USA



Preparation of novel phenylfuran-based cyanohydrin esters: lipase-catalysed kinetic and dynamic resolution

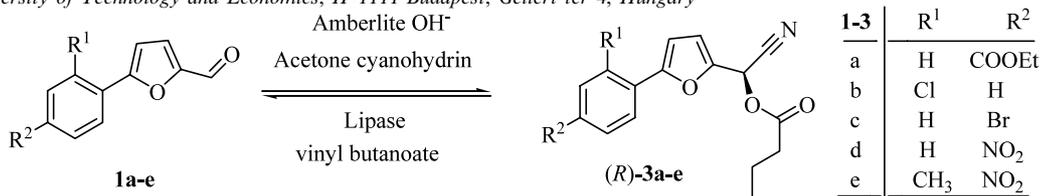
Tetrahedron: Asymmetry 14 (2003) 1895

Csaba Paizs,^{a,b} Petri Tähtinen,^a Katri Lundell,^a László Poppe,^c Florin-Dan Irimie^b and Liisa T. Kanerva^{a,*}

^aLaboratory of Synthetic Drug Chemistry and Department of Chemistry, University of Turku, Lemminkäisenkatu 2, FIN-20520 Turku, Finland

^bDepartment of Biochemistry and Biochemical Engineering, Babeş-Bolyai University, Arany János 11, RO-3400 Cluj-Napoca, Romania

^cInstitute for Organic Chemistry and Research Group for Alkaloid Chemistry of the Hungarian Academy of Sciences, Budapest University of Technology and Economics, H-1111 Budapest, Gellért tér 4, Hungary



Chiral pyrophosphites—synthesis and application as ligands in Rh(I)-catalyzed asymmetric hydrogenation

Tetrahedron: Asymmetry 14 (2003) 1905

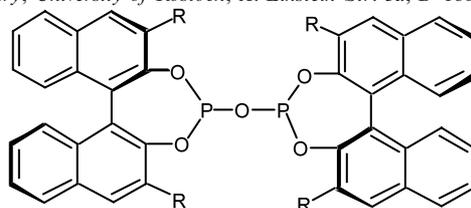
Andrei Korostylev,^{a,*} Detlef Selent,^a Axel Monsees,^b Cornelia Borgmann^c and Armin Börner^{a,d,*}

^aLeibniz-Institut für Organische Katalyse an der Universität Rostock e.V., Buchbinderstr. 5/6, D-18055 Rostock, Germany

^bDegussa AG, Projekthaus Katalyse, Geschäftsbereich Creavis, Industriepark Hoechst, Gebäude G 830, D-65926 Frankfurt/Main, Germany

^cDegussa AG, Oxeno C4-Chemie, Paul-Baumann-Strasse 1, D-45764 Marl, Germany

^dDepartment of Chemistry, University of Rostock, A.-Einstein-Str. 3a, D-18059 Rostock, Germany



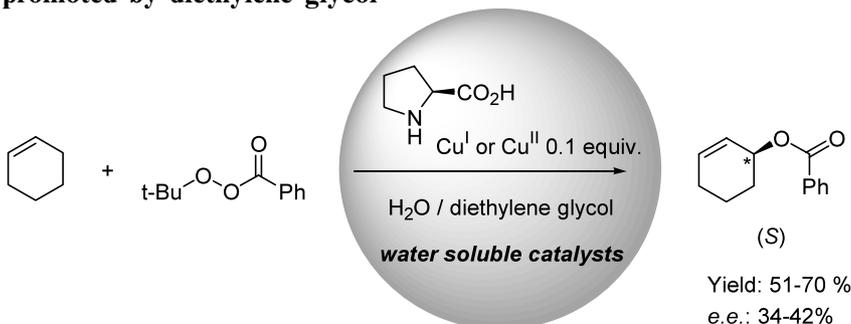
up to 70 %ee in the Rh(I)-catalyzed enantioselective hydrogenation of standard substrates

Amino acid/copper-catalyzed enantioselective allylic benzyloxylation of olefins in water promoted by diethylene glycol

Tetrahedron: Asymmetry 14 (2003) 1911

Jean Le Bras* and Jacques Muzart

Unité Mixte de Recherche 'Réactions Sélectives et Applications', CNRS-Université de Reims Champagne-Ardenne, BP 1039, 51687 Reims cedex 2, France



Enantioselective Michael addition of 2-nitropropane to chalcone analogues catalyzed by chiral azacrown ethers based on α-D-glucose and D-mannitol

Tetrahedron: Asymmetry 14 (2003) 1917

Tibor Bakó,^a Péter Bakó,^{a,*} György Keglevich,^a Nikolettta Báthori,^b Mátyás Czugler,^b János Tatai,^b Tibor Novák,^a Gyula Parlagh^c and László Tóke^d

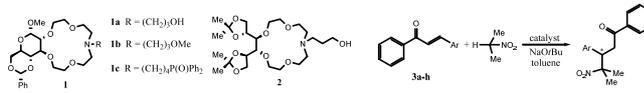
^aDepartment of Organic Chemical Technology, Budapest University of Technology and Economics, 1521 Budapest, PO Box 91, Hungary

^bChemical Research Center, Institute of Chemistry, Hungarian Academy of Sciences, 1525 Budapest, PO Box 17, Hungary

^cDepartment of Physical Chemistry, Budapest University of Technology and Economics, 1521 Budapest, PO Box 91, Hungary

^dOrganic Chemical Technology Research Group of the Hungarian Academy of Sciences at the Budapest University of Technology and Economics, 1521 Budapest, PO Box 91, Hungary

Michael addition of 2-nitropropane to chalcone analogues, catalyzed by crown ethers **1a-c**, **2** afforded the adducts in 34–81% e.e.



Synthesis of *N*-[2-(2-pyridyl)ethyl]-17 α -aza-D-homosteroids and their biomimetic copper-mediated ligand hydroxylations with molecular oxygen

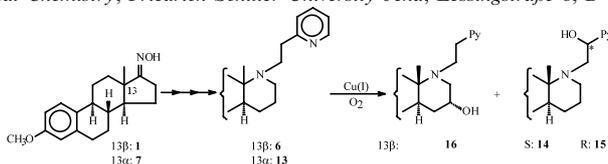
Tetrahedron: Asymmetry 14 (2003) 1925

Angéla Magyar,^a Bruno Schönecker,^{b,*} János Wölfling,^a Gyula Schneider,^a Wolfgang Günther^b and Helmar Görls^c

^aDepartment of Organic Chemistry, University of Szeged, Dóm tér 8, H-6720 Szeged, Hungary

^bInstitute of Organic Chemistry and Macromolecular Chemistry, Friedrich Schiller University Jena, Lessingstraße 8, D-07743 Jena, Germany

^cInstitute of Inorganic and Analytical Chemistry, Friedrich Schiller University Jena, Lessingstraße 8, D-07743 Jena, Germany

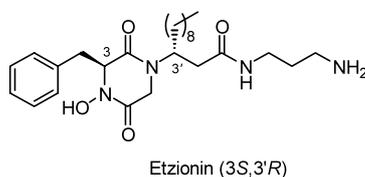


Determination of the absolute stereochemistry of Etzionin

Tetrahedron: Asymmetry 14 (2003) 1935

Esther Vaz, Miryam Fernandez-Suarez and Luis Muñoz*

Departamento de Química Orgánica, Facultade de Ciencias, Universidade de Vigo, 36200 Vigo, Spain



Kinetic resolution of 1-(benzofuran-2-yl)ethanols by lipase-catalyzed enantiomer selective reactions

Tetrahedron: Asymmetry 14 (2003) 1943

Csaba Paizs,^a Monica Toşa,^a Viktória Bóдай,^{b,c} György Szakács,^c Ildikó Kmecz,^d Béla Simándi,^d Cornelia Majdik,^a Lajos Novák,^b Florin-Dan Irimie^{a,*} and László Poppe^{b,*}

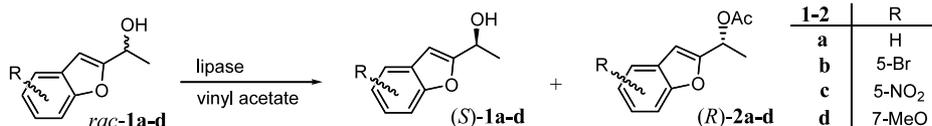
^aDepartment of Biochemistry and Biochemical Engineering, Babeş-Bolyai University, Arany János 11, RO-3400 Cluj-Napoca, Romania

^bInstitute for Organic Chemistry and Research Group for Alkaloid Chemistry of the Hungarian Academy of Sciences,

Budapest University of Technology and Economics, H-1111 Budapest, Gellért tér 4, Hungary

^cDepartment of Agricultural Chemical Technology, Budapest University of Technology and Economics, Gellért tér 4, H-1111 Budapest, Hungary

^dDepartment of Chemical Engineering, Budapest University of Technology and Economics, Muegyetem Rkp 3, H-1521 Budapest, Hungary



Efficient preparation of enantiomerically pure (*E*)-4-(tributylstannanyl)but-3-en-2-ol via lipase-mediated resolution

Tetrahedron: Asymmetry 14 (2003) 1951

Taeho Lee and Sanghee Kim*

Natural Products Research Institute, College of Pharmacy, Seoul National University, 28 Yungun, Jongro, Seoul 110-460, Republic of Korea

