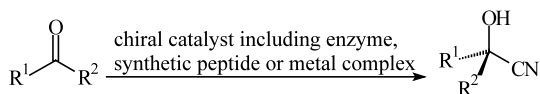
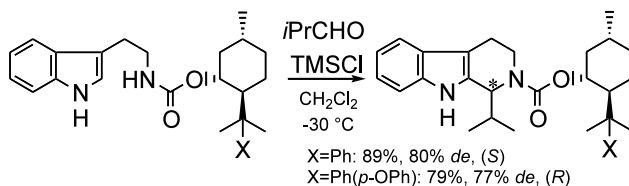


Synthesis and applications of non-racemic cyanohydrins*Tetrahedron: Asymmetry 14 (2003) 147*

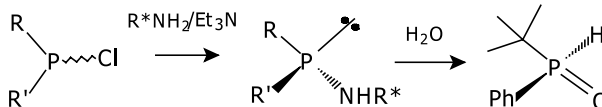
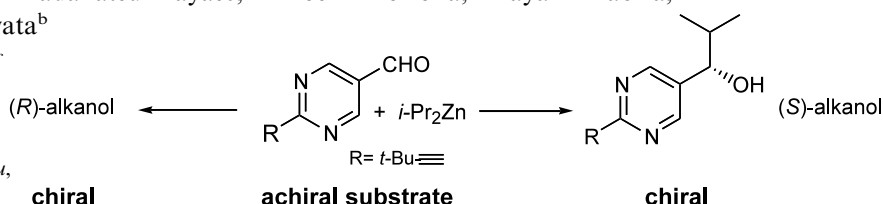
Michael North*

Department of Chemistry, King's College London, Strand, London WC2R 2LS, UK**An efficient synthetic approach to optically active β -carboline derivatives via Pictet–Spengler reaction promoted by trimethylchlorosilane***Tetrahedron: Asymmetry 14 (2003) 177*

Riichiro Tsuji, Masako Nakagawa and Atsushi Nishida*

Graduate School of Pharmaceutical Sciences, Chiba University, 1-33, Yayoi-cho, Chiba 263-8522, Japan**Asymmetric synthesis of chiral *N*-(1-methylbenzyl)amino-phosphines***Tetrahedron: Asymmetry 14 (2003) 181*Oleg I. Kolodiazhnyi,^{a,*} Evgeniy V. Gryshkun,^a Natalia V. Andrushko,^a Matthias Freytag,^b Peter G. Jones^b and Reinhard Schmutzler^b^a*Institute of Bioorganic Chemistry, National Academy of Sciences of Ukraine, Murmanskaia Street, 1, Kiev, Ukraine*^b*Institut für Anorganische und Analytische Chemie, Technische Universität, Hagenring 30, 38106 Braunschweig, Germany*

The reactions of *t*-butylphenylchlorophosphine with (*S*)- or (*R*)-1-methylbenzylamine proceed stereoselectively to give *N*-(1-methylbenzyl)aminophosphines, which were isolated as crystalline borane complexes in 100% diastereomeric purity. The absolute configuration of the new chiral compounds was established by X-ray analysis and chemical extrapolation.

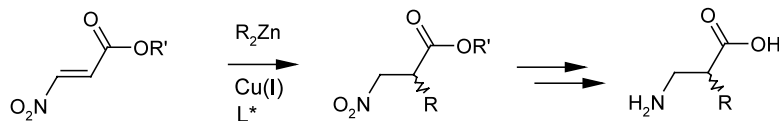
**Asymmetric synthesis of pyrimidyl alkanol without adding chiral substances by the addition of diisopropylzinc to pyrimidine-5-carbaldehyde in conjunction with asymmetric autocatalysis***Tetrahedron: Asymmetry 14 (2003) 185*Kenso Soai,^{a,*} Itaru Sato,^a Takanori Shibata,^a Soichiro Komiya,^a Masanobu Hayashi,^aYohei Matsueda,^a Hikaru Imamura,^a Tadakatsu Hayase,^a Hiroshi Morioka,^a Hayami Tabira,^aJun Yamamoto^a and Yasunori Kowata^b^a*Department of Applied Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan*^b*Nihon Surfactant Kogyo, Hasune, Itabashi-ku, Tokyo 174-0046, Japan*

Stereoselective synthesis of β^2 -amino acids by Michael addition of diorgano zinc reagents to nitro acrylates

Tetrahedron: Asymmetry 14 (2003) 189

Uwe Eilitz, Frank Leßmann, Oliver Seidelmann and Volkmar Wendisch*

ChiroBlock Ltd., Andresenstrasse 1a, D-06766 Wolfen, Germany



Stereoselective synthesis of chiral precursors to cyclobutane carbocyclic nucleosides and oligopeptides

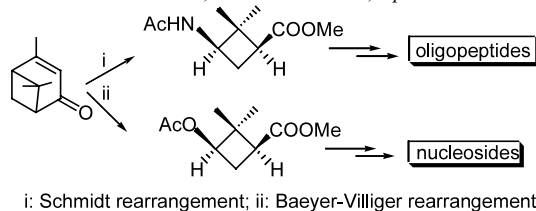
Tetrahedron: Asymmetry 14 (2003) 193

Pablo D. Rouge,^a Albertina G. Moglioni,^{b,*} Graciela Y. Moltrasio^b and Rosa M. Ortuño^{c,*}

^aCentro de Investigación y Desarrollo en Química y Petroquímica, INTI, Argentina

^bDepartamento de Química Orgánica, Facultad de Farmacia y Bioquímica, Universidad de Buenos Aires, Argentina

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



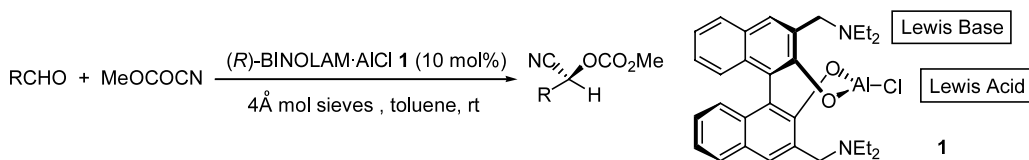
Enantioselective cyanoformylation of aldehydes mediated by BINOLAM-AlCl as a monometallic bifunctional catalyst

Tetrahedron: Asymmetry 14 (2003) 197

Jesús Casas,^a Alejandro Baeza,^a José M. Sansano,^a Carmen Nájera^{a,*} and José M. Saá^{b,*}

^aDepartamento de Química Orgánica, Facultad de Ciencias, Universidad de Alicante, Apartado 99, 03080 Alicante, Spain

^bDepartament de Química, Universitat de les Illes Balears, 07071 Palma de Mallorca, Spain



Synthesis of optically active 1,3-dioxin-4-one derivatives having a hydroxymethyl group at the 2-position and their use for regio-, diastereo-, and enantioselective synthesis of substituted cyclobutanols

Tetrahedron: Asymmetry 14 (2003) 201

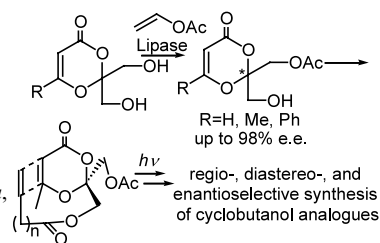
Masayuki Murakami,^a Hiroshi Kamaya,^b Chikara Kaneko^c and Masayuki Sato^{d,*}

^aProcess Development Laboratories, Sankyo Co., Ltd., 1-12-1 Shinomiya, Hiratsuka 254-8560, Japan

^bMedicinal Chemistry Department, Discovery Research Laboratory, Tanabe Seiyaku Co., Ltd., 2-2-5-Kawagishi, Toda 335-8505, Japan

^cEmeritus Professor of Tohoku and Kanazawa Universities, 2-35-19 Yagiyama-Honcho, Taihaku-ku, Sendai 982-0801, Japan

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

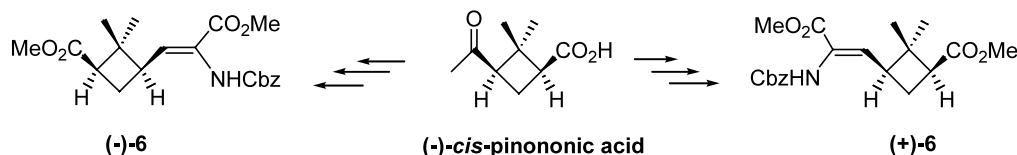


Enantiodivergent synthesis of cyclobutyl-(*Z*)- α,β -dehydro- α -amino acid derivatives from (–)-*cis*-pinononic acid

Tetrahedron: Asymmetry 14 (2003) 217

Gemma P. Aguado, Albertina G. Moglioni and Rosa M. Ortuño*

Departament de Química, Universitat Autònoma de Barcelona, 08193 Bellaterra, Barcelona, Spain



Synthesis of enantiopure 1,2-dihydroxyhexahydropyrroloisoquinolines as potential tools for asymmetric catalysis

Tetrahedron: Asymmetry 14 (2003) 225

Zbigniew Kałuża* and Danuta Mostowicz

Institute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warszawa, Poland



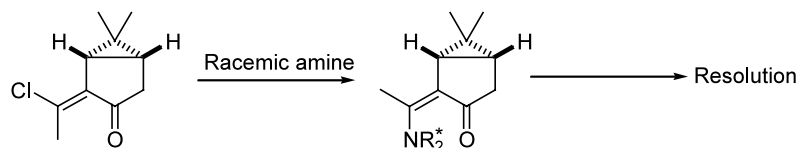
Study of chiral β -enaminones prepared from pyrrolidine, cytosine, salsoline and 2-amino-1-(4-nitrophenyl)propane-1,3-diol: resolution of salsoline via diastereomeric modified carane-type β -enaminones

Tetrahedron: Asymmetry 14 (2003) 233

Sergey A. Popov,^a Yuri V. Gatilov,^a Tatjana V. Rybalova^a and Alexey V. Tkachev^{a,b,*}

^a*N.N. Vorozhtsov Novosibirsk Institute of Organic Chemistry, Acad. Lavrentjev Ave. 9, Novosibirsk 630090, Russia*

^b*Novosibirsk State University, Pirogov St. 2, Novosibirsk 630090, Russia*



Highly diastereoselective hetero-Diels–Alder reaction of buta-1,3-diene with *N*-glyoxyloyl-(2*R*)-bornane-10,2-sultam: an efficient synthesis of homochiral (*S*)-3-[2-[(methylsulfonyl)oxy]ethoxy]-4-(triphenylmethoxy)-1-butanol methanesulfonate

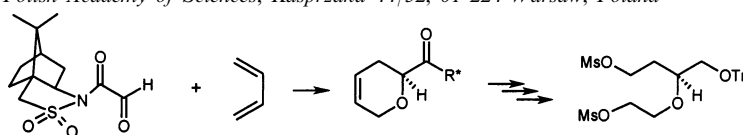
Tetrahedron: Asymmetry 14 (2003) 239

Małgorzata Kosior,^a Małgorzata Malinowska,^a Julita Jóźwik,^a Jean-Claude Caille^b and Janusz Jurczak^{a,c,*}

^a*Department of Chemistry, Warsaw University, Pasteura 1, 02-093 Warsaw, Poland*

^b*PPG-SIPSY, Z.I. La Croix Cadeau B.P. 79, 49242, Avrille Cedex, France*

^c*Institute of Organic Chemistry, Polish Academy of Sciences, Kasprzaka 44/52, 01-224 Warsaw, Poland*



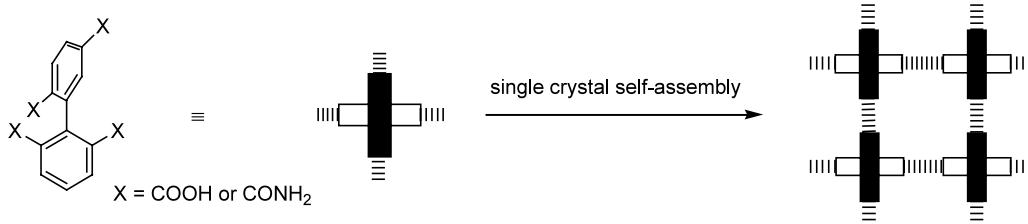
Self-assembly of chiral hydrogen-bonded grid layers from terephthalic Siamese twins

Tetrahedron: Asymmetry 14 (2003) 245

Petr Holý,^a Petr Sehnal,^a Miloš Tichý,^a Jiří Závada^{a,*} and Ivana Císařová^b

^aInstitute of Organic Chemistry and Biochemistry, Academy of Sciences of the Czech Republic, Flemingovo nám. 2, 166 10 Prague 6, Czech Republic

^bDepartment of Inorganic Chemistry, Faculty of Natural Sciences, Charles University, Hlavova 2030, 128 40 Prague 2, Czech Republic

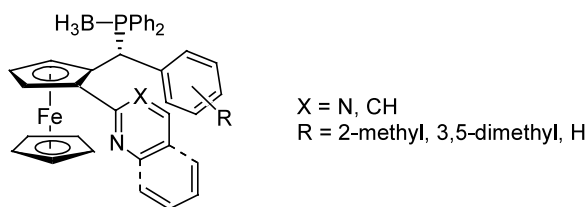


New *P,N*-ferrocenyl ligands for rhodium-catalyzed hydroboration and palladium-catalyzed allylic alkylation

Tetrahedron: Asymmetry 14 (2003) 255

Ralf J. Kloetzing, Matthias Lotz and Paul Knochel*

Department of Chemistry of Ludwig-Maximilians-University, Butenandtstraße 5-13, 81377 Munich, Germany

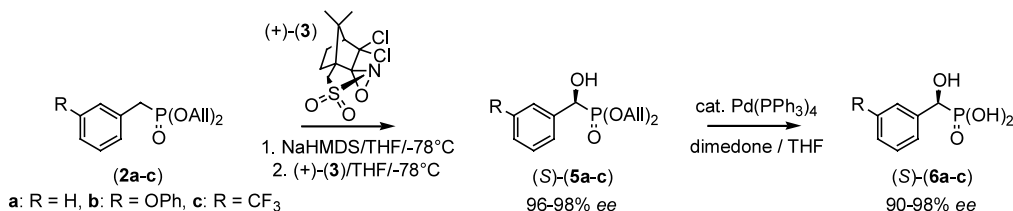


Chiral, non-racemic α -hydroxyphosphonates and phosphonic acids via stereoselective hydroxylation of diallyl benzylphosphonates

Tetrahedron: Asymmetry 14 (2003) 265

Danielle Skropeta* and Richard R. Schmidt

Fachbereich Chemie, Universität Konstanz, Fach M 725, D-78457 Konstanz, Germany

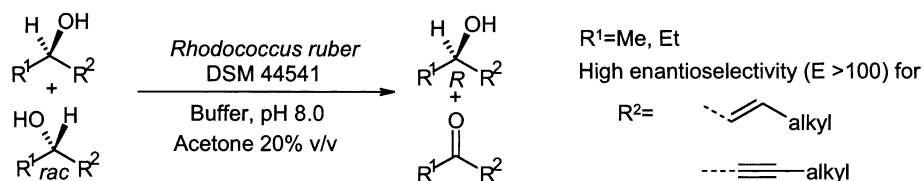


Biocatalytic oxidative kinetic resolution of *sec*-alcohols: stereocontrol through substrate-modification

Tetrahedron: Asymmetry 14 (2003) 275

Wolfgang Stampfer, Birgit Kosjek, Kurt Faber and Wolfgang Kroutil*

Department of Chemistry, Organic and Bioorganic Chemistry, University of Graz, Heinrichstrasse 28, A-8010Graz, Austria



A novel method for the asymmetric synthesis of 4,4-disubstituted 2-cyclopentenones from optically active 1-chlorovinyl *p*-tolyl sulfoxides and its application to the asymmetric total synthesis of (+)- α -cuparenone

Tsuyoshi Satoh,* Masaaki Yoshida, Yasuhiro Takahashi and Hiroyuki Ota

Department of Chemistry, Faculty of Science, Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan

