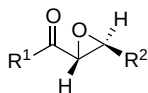


Epoxy ketones as versatile building blocks in organic synthesis*Tetrahedron: Asymmetry 12 (2001) 2359*

Christelle Lauret

Robert Robinson Laboratories, Department of Chemistry, University of Liverpool, Crown Street, Liverpool L7 7DB, UK

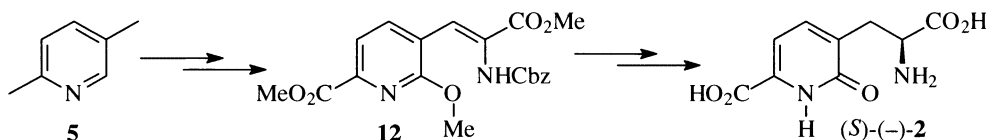
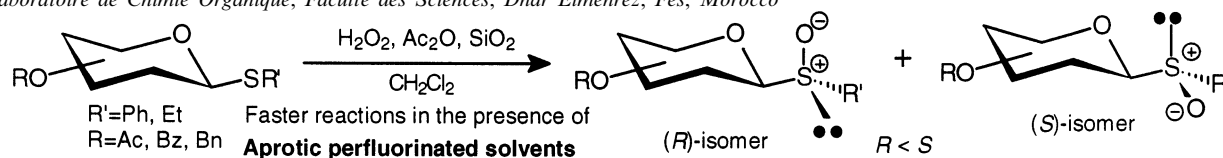
The major advances made in the functionalisation of racemic and optically active epoxy ketones where one or several stereogenic centres are either preserved or modified are reviewed. Some relevant applications to the synthesis of natural products and biologically active compounds are also described.

**Asymmetric synthesis of (S)-(-)-acromelobinic acid***Tetrahedron: Asymmetry 12 (2001) 2385*

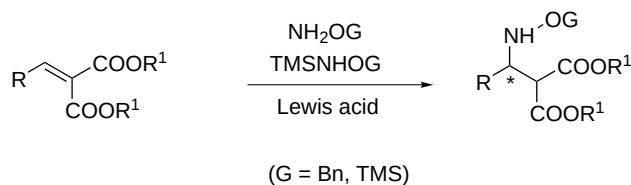
Maciej Adamczyk,* Srinivasa Rao Akireddy and Rajarathnam E. Reddy

Department of Chemistry (9NM, Bldg AP20), Diagnostics Division, Abbott Laboratories, 100 Abbott Park Road, Abbott Park, IL 60064-6016, USA

Total synthesis of (S)-(-)-acromelobinic acid **2** is described starting from 2,5-lutidine **5** via catalytic asymmetric hydrogenation of the dehydroamino acid derivative **12** in >96% e.e. and good overall yield.

**Unexpected fluorous solvent effect on oxidation of 1-thioglycosides***Tetrahedron: Asymmetry 12 (2001) 2389*Khalid Misbahi,^{a,b} Morgane Lardic,^a Vincent Ferrières,^{a,*} Nicolas Noiret,^{a,*} Abdelali Kerbal^b and Daniel Plusquellec^a^a*Ecole Nationale Supérieure de Chimie de Rennes, Synthèses et Activations de Biomolécules, CNRS UMR 6052, Institut de Chimie de Rennes, Avenue du Général Leclerc, F-35700 Rennes, France*^b*Laboratoire de Chimie Organique, Faculté des Sciences, Dhar Elmehrez, Fès, Morocco***Conjugate addition of hydroxylamino derivatives to alkylidene malonates in the presence of chiral Lewis acids***Tetrahedron: Asymmetry 12 (2001) 2395*

Giuliana Cardillo,* Luca Gentilucci, Massimo Gianotti, Hahn Kim, Rossana Perciaccante and Alessandra Tolomelli

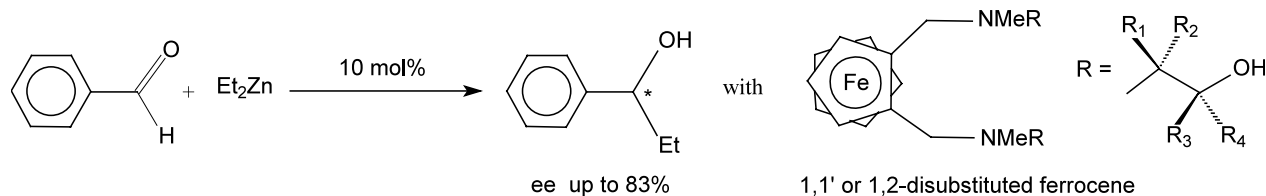
Dipartimento di Chimica 'G. Ciamician' and CSFM, Università di Bologna, Via Selmi 2, I-40126 Bologna, Italy

Enantioselective alkylation of benzaldehyde with diethylzinc catalyzed by 1,1'- and 1,2-disubstituted ferrocenyl amino alcohols

Tetrahedron: Asymmetry 12 (2001) 2399

Stéphanie Bastin, Francine Agbossou-Niedercorn, Jacques Brocard and Lydie Pélinski*

Laboratoire de Catalyse de Lille, UPRESA CNRS 8010, Ecole Nationale Supérieure de Chimie de Lille, BP108, 59652 Villeneuve d'Ascq cedex, France



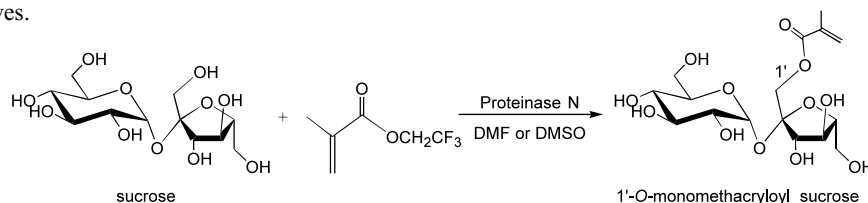
Proteinase N-catalysed regioselective esterification of sucrose and other mono- and disaccharides

Tetrahedron: Asymmetry 12 (2001) 2409

Pierre Potier, Alain Bouchu, Juliette Gagnaire and Yves Queneau*

Laboratoire de Sucrochimie CNRS UMR 143, c/o Béghin-Say, C.E.I., 27 boulevard du 11 novembre 1918, B.P. 2132, F-69603 Villeurbanne Cedex, France

Proteinase N in aqueous DMF or DMSO was used to catalyse carbohydrate transesterifications to provide surfactants or polymerisable derivatives.



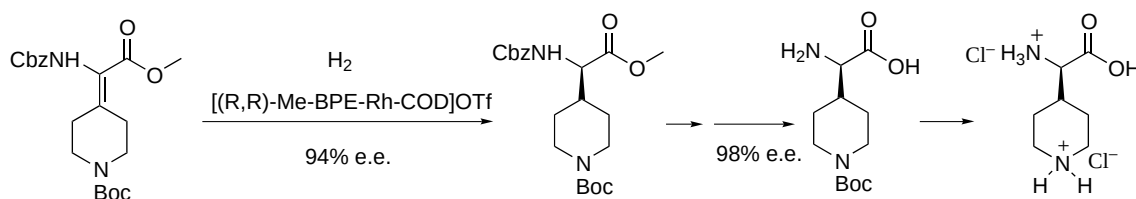
An enantioselective synthesis of (R)-4-piperidinyglycine

Tetrahedron: Asymmetry 12 (2001) 2421

Wen-Chung Shieh,^{a,*} Song Xue,^a Noela Reel,^a Raeann Wu,^a John Fitt^b and Oljan Repič^a

^aChemical and Analytical Development, Novartis Institute for Biomedical Research, East Hanover, NJ 07936, USA

^bArthritis and Bone Metabolism Chemistry Research, Novartis Institute for Biomedical Research, Summit, NJ 07901, USA

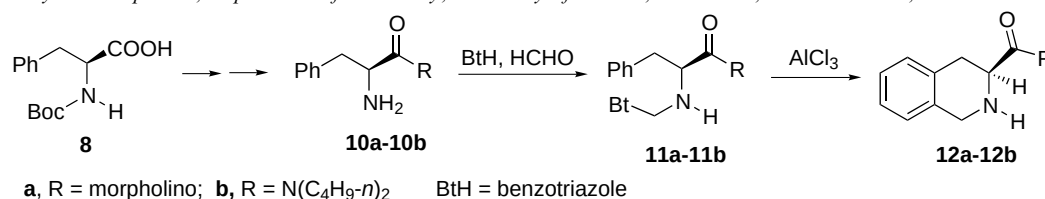


2-Substituted-1,2,3,4-tetrahydroisoquinolines and chiral 3-carboxyl analogues from N-benzotriazolylmethyl-N-phenethylamines

Tetrahedron: Asymmetry 12 (2001) 2427

Alan R. Katritzky,* Hai-Ying He, Rong Jiang and Qiuhe Long

Center for Heterocyclic Compounds, Department of Chemistry, University of Florida, Gainesville, FL 32611-7200, USA

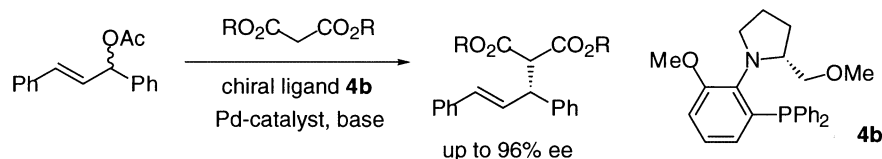


Palladium-catalyzed asymmetric allylic alkylation using (*R*)-2-(methoxymethyl)pyrrolidine-derived aminophosphine ligands

Tetrahedron: Asymmetry 12 (2001) 2435

Takashi Mino,* Youichi Tanaka, Masami Sakamoto and Tsutomu Fujita

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



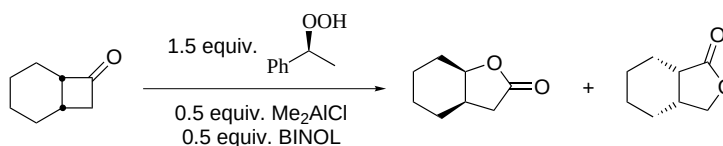
Influence of hydroperoxides on the enantioselectivity of metal-catalyzed asymmetric Baeyer–Villiger oxidation and epoxidation with chiral ligands

Tetrahedron: Asymmetry 12 (2001) 2441

Carsten Bolm,^{a,*} Oliver Beckmann,^a Toralf Kühn,^a Chiara Palazzi,^a Waldemar Adam,^b Paraselli Bheema Rao^b and Chantu R. Saha-Möller^b

^aInstitut für Organische Chemie der RWTH Aachen, Professor-Pirlet-Straße 1, D-52056 Aachen, Germany

^bInstitut für Organische Chemie, Universität Würzburg, Am Hubland, D-97074 Würzburg, Germany



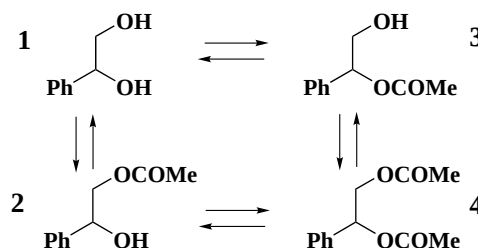
Preparation of the enantiomers of 1-phenylethan-1,2-diol. Regio- and enantioselectivity of acylase I and *Candida antarctica* lipases A and B

Tetrahedron: Asymmetry 12 (2001) 2447

Pauliina Virsu, Arto Liljeblad, Anu Kanerva and Liisa T. Kanerva*

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

The title enzymes were evaluated for the preparation of the enantiomers of 1-phenylethan-1,2-diol through the acetylation of **1** in vinyl acetate and through the methanolysis or butanolysis of **4**. Sequential resolution and selective reactions at the position 1 are considered.

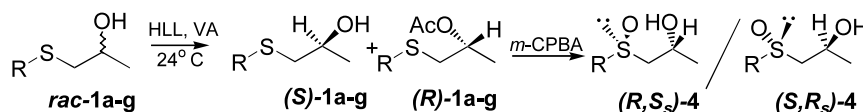


Humicola lanuginosa lipase catalyzed enantioselective resolution of β -hydroxy sulfides: versatile synthons for enantiopure β -hydroxy sufoxides

Tetrahedron: Asymmetry 12 (2001) 2457

Satwinder Singh, Subodh Kumar and Swapandeep Singh Chimni*

Department of Chemistry, Guru Nanak Dev University, Amritsar 143 005, India



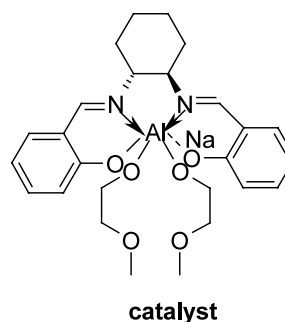
Aluminium–SALEN complex: a new catalyst for the enantioselective Michael reaction

S. C. Jha and N. N. Joshi*

Division of Organic Synthesis, National Chemical Laboratory, Pune 411008, India

A new chiral aluminium complex has been found to catalyse the enantioselective addition of malonate esters to cycloalkenones.

Tetrahedron: Asymmetry 12 (2001) 2463

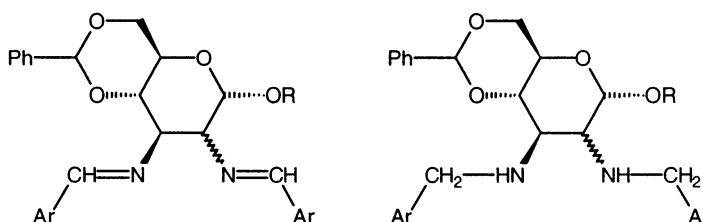


Novel chiral diimines and diamines derived from sugars in copper-catalysed asymmetric cyclopropanation

Carmela Borriello, Maria Elena Cucciolito, Achille Panunzi and Francesco Ruffo*

Dipartimento di Chimica, Università di Napoli 'Federico II', Complesso Universitario di Monte S. Angelo, via Cintia, I-80126 Naples, Italy

Tetrahedron: Asymmetry 12 (2001) 2467



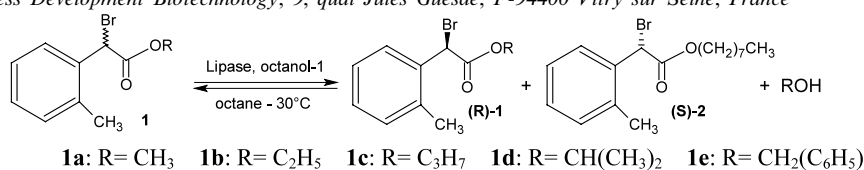
Resolution of 2-bromo-*o*-tolyl-carboxylic acid by transesterification using lipases from *Rhizomucor miehei* and *Pseudomonas cepacia*

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

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

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

Tetrahedron: Asymmetry 12 (2001) 2473

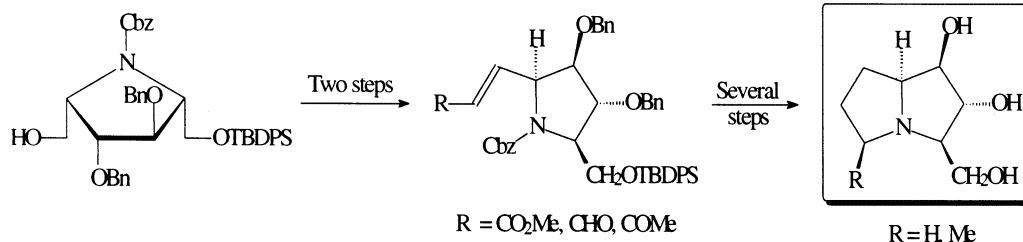


Polyhydroxylated pyrrolizidines. Part I: Short and highly stereocontrolled syntheses of hyacinthacines

Isidoro Izquierdo,* María T. Plaza, Rafael Robles and Francisco Franco

Department of Organic Chemistry, Faculty of Pharmacy, University of Granada, 18071 Granada, Spain

Tetrahedron: Asymmetry 12 (2001) 2481



Reciprocal resolutions between 1-phenylethylamine and carboxyesters of isopropylidene glycerol: improvement of the method by replacing mono-phthalate with 3-carboxy-2-naphthoate

Marco Pallavicini,^{a,*} Ermanno Valoti,^a Luigi Villa^a and Oreste Piccolo^b

^aIstituto di Chimica Farmaceutica e Tossicologica, Università di Milano, viale Abruzzi 42, I-20131 Milan, Italy

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