## Synthesis of 7-*anti*-bromo-3,3-dimethyl-2-oxonorbornane-1-carboxylic acid: a new chiral source from the chiral pool

*Tetrahedron:* Asymmetry *13 (2002) 1837*

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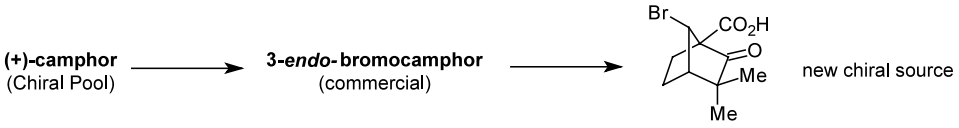
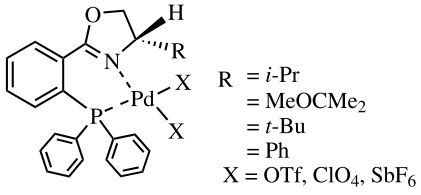



## Highly enantioselective palladium-catalyzed asymmetric Diels–Alder reactions with chiral phosphino–oxazoline ligands

*Tetrahedron:* Asymmetry *13 (2002) 1841*

Kunio Hiroi* and Kazuhiro Watanabe

*Department of Synthetic Organic Chemistry, Tohoku Pharmaceutical University, 4-4-1 Komatsushima, Aoba-ku, Sendai, Miyagi 981-8558, Japan*

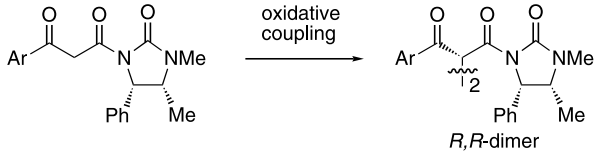



## Stereoselective homocoupling of chiral 1-aroylacetyl-2-imidazolidinones by oxidation with $Br_2$

*Tetrahedron:* Asymmetry *13 (2002) 1845*

Naoki Kise,* Azumi Fujimoto and Nasuo Ueda

*Department of Biotechnology, Faculty of Engineering, Tottori University, Koyama Tottori 680-8552, Japan*




## Enantiomerically enriched *vic*-amino alcohols from 2-iminobornanes

*Tetrahedron:* Asymmetry *13 (2002) 1849*

Michael D. Squire,[a] Amanda Burwell,[b] Gregory M. Ferrence[b] and Shawn R. Hitchcock[a,*]

[a]*Department of Chemistry, Illinois State University, Normal, IL 61790-4160, USA*
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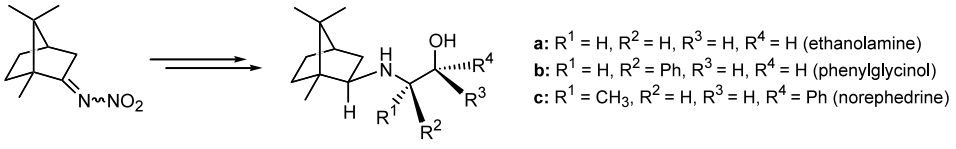


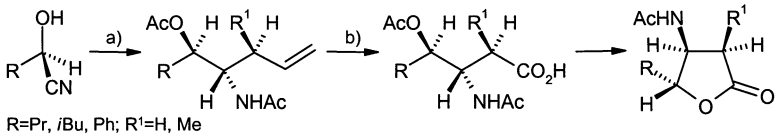
## Stereoselective synthesis of β-amino-γ-butyrolactones

*Tetrahedron:* Asymmetry *13 (2002) 1855*

Jürgen Roos and Franz Effenberger*

*Institut für Organische Chemie der Universität Stuttgart, Pfaffenwaldring 55, D-70569 Stuttgart, Germany*

Optically active β-amino-γ-butyrolactones were prepared in good yields and diastereomeric excesses starting from (*R*)-cyanohydrins, accessible from aldehydes by enzyme-catalyzed HCN addition.




R=Pr, *i*Bu, Ph; R¹=H, Me

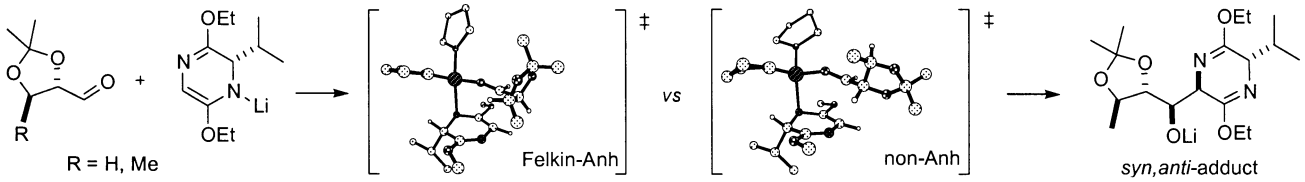
a) addition of allyl or crotyl Grignard; b) ozonolysis followed by oxidation

## Computational study of the *syn,anti*-selective aldol additions of lithiated bis-lactim ether to 1,3-dioxolane-4-carboxaldehydes

*Tetrahedron:* Asymmetry *13 (2002) 1863*

María Ruiz, Vicente Ojea* and José M. Quintela

*Departamento de Química Fundamental, Facultade de Ciencias, Universidade da Coruña, Campus da Zapateira, s/n, 15071 A Coruña, Spain*




## Brz220 a novel brassinosteroid biosynthesis inhibitor: stereochemical structure–activity relationship

*Tetrahedron:* Asymmetry *13 (2002) 1875*

Katsuhiko Sekimata,[a,b] Jun Uzawa,[b] Sun-Young Han,[a,b]
Koichi Yoneyama,[c] Yasutomo Takeuchi,[c] Shigeo Yoshida[b] and Tadao Asami[b,*]

[a]*Graduate School of Science and Engineering, Saitama University, Saitama 338-8570, Japan*
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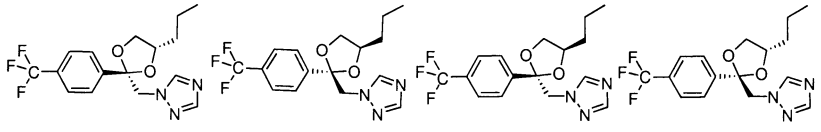
[c]*Center for Research on Wild Plants, Utsunomiya University, Utsunomiya, Tochigi 321-8505, Japan*



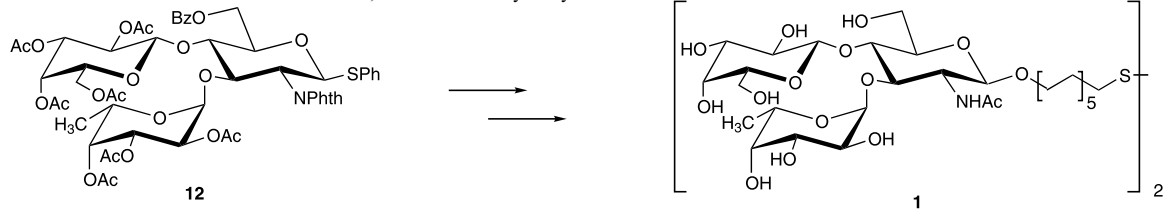

## Synthesis of Le$^x$-neoglycoconjugate to study carbohydrate–carbohydrate associations and its intramolecular interaction

*Tetrahedron:* Asymmetry *13 (2002) 1879*

Jesús M. de la Fuente and Soledad Penadés*

*Grupo de Carbohidrato, Instituto de Investigaciones Químicas, CSIC, Isla de la Cartuja, Américo Vespucio s/n, 41092 Sevilla, Spain*

A straightforward synthetic strategy for the preparation of the Le$^x$ neoglycoconjugate (11,11′-dithio bis[undecanyl-β-D-galactopyranosyl-(1→4)-α-L-fucopyranosyl-(1→3)-2-acetamido-2-deoxy-β-D-glucopyranoside]) is reported. NMR analysis of the neoglycoconjugates suggests an intramolecular Le$^x$–Le$^x$ *cis*-interaction in water, which is destroyed by addition of methanol.

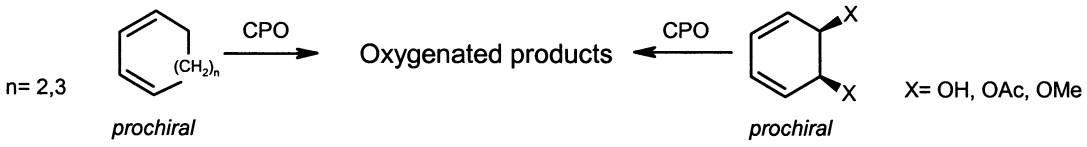


## Catalytic behaviour of chloroperoxidase from *Caldariomyces fumago* in the oxidation of cyclic conjugated dienes

*Tetrahedron:* Asymmetry *13 (2002) 1889*

Claudia Sanfilippo* and Giovanni Nicolosi

*CNR Istituto Chimica Biomolecolare, Sezione di Catania, Via del Santuario 110, I-95028 Valverde CT, Italy*

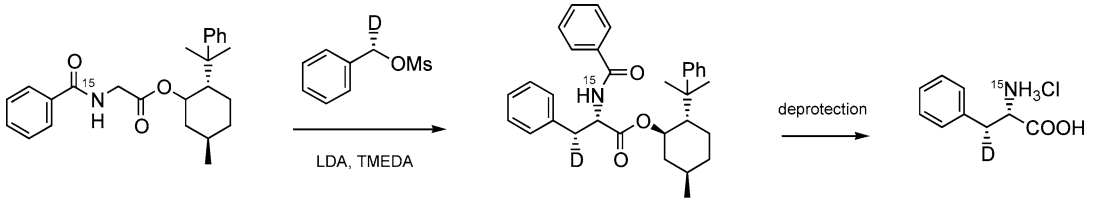



## Stereoselective route to $^{15}$N-labeled-β-deuterated amino acids: synthesis of (2*S*,3*R*)-[3-$^{2}$H,$^{15}$N]-phenylalanine

*Tetrahedron:* Asymmetry *13 (2002) 1893*

Derek W. Barnett,[a] Michael J. Panigot[b] and Robert W. Curley, Jr.[a,*]

[a]*The Ohio State University, Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, Columbus, OH 43210, USA*
[b]*Department of Chemistry & Physics, Arkansas State University, State University, Arkansas 72467, USA*

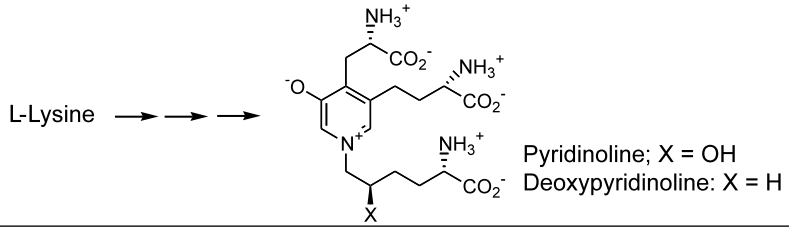



## A simple and convenient transformation of L-lysine into pyridinoline and deoxypyridinoline, two collagen cross-links of biochemical interest

*Tetrahedron:* Asymmetry *13 (2002) 1901*

Pietro Allevi,[a,*] Matteo Galligani[b] and Mario Anastasia[b]

[a]*Dipartimento di Medicina, Chirurgia e Odontoiatria, Università di Milano, via A. Di Rudinì 8, I-20142 Milano, Italy*
[b]*Dipartimento di Chimica e Biochimica Medica, Università di Milano, via Saldini 50, I-20133 Milano, Italy*

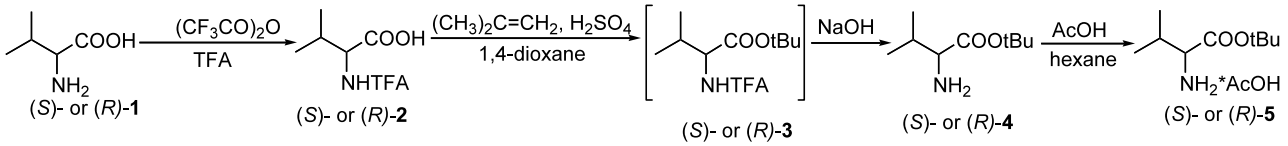



## Efficient large (ca. 40 g) laboratory scale preparation of (*S*)-and (*R*)-valine *tert*-butyl esters

*Tetrahedron:* Asymmetry *13 (2002) 1911*

Victor P. Krasnov,[a,*] Galina L. Levit,[a] Iraida M. Bukrina,[a] Alexander M. Demin,[a] Oleg N. Chupakhin[a] and Ji Uk Yoo[b]

[a]*Institute of Organic Synthesis of RAS (Ural Div.), 20, S. Kovalevskoy St., Ekaterinburg 620219, Russia*
[b]*Samsung Fine Chemicals Co. Ltd. R&D Center, 103-1 Moonji Yusong, Taejon 305-380, South Korea*

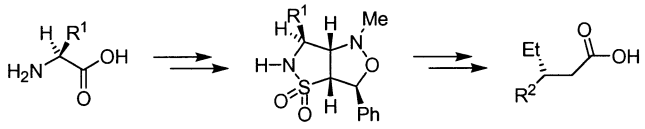


## Syntheses of new chiral bicyclic sultams and their use as auxiliaries in asymmetric conjugate addition of Grignard reagents

*Tetrahedron:* Asymmetry *13 (2002) 1915*

Ugo Chiacchio,[a,*] Antonino Corsaro,[a] Giovanni Gambera,[a] Antonio Rescifina,[a] Anna Piperno,[b] Roberto Romeo[b] and Giovanni Romeo[b,*]

[a]*Dipartimento di Scienze Chimiche, Università di Catania, Viale Andrea Doria 6, Catania 95125, Italy*
[b]*Dipartimento Farmaco-Chimico, Università di Messina, Viale SS. Annunziata, Messina 98168, Italy*



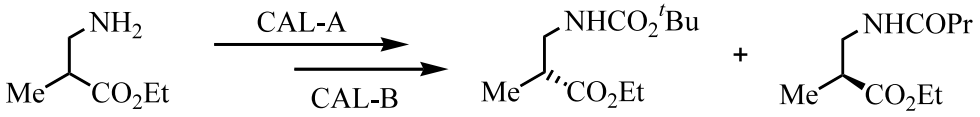
## Lipase-catalysed kinetic resolution in organic solvents: an approach to enantiopure α-methyl-β-alanine esters

*Tetrahedron:* Asymmetry *13 (2002) 1923*

Magdolna Solymár,[a,b] Arto Liljeblad,[a] László Lázár,[b] Ferenc Fülöp[b] and Liisa T. Kanerva[a,*]

[a]*Laboratory of Synthetic Drug Chemistry and Department of Chemistry, University of Turku, Lemminkäisenkatu 2, FIN-20520 Turku, Finland*
[b]*Institute of Pharmaceutical Chemistry, University of Szeged, PO Box 121, H-6701 Szeged, Hungary*

A sequential protocol was exploited for the resolution of α-methyl-β-alanine ethyl ester on the basis of the opposite enantioselectivity of CAL-A and CAL-B.

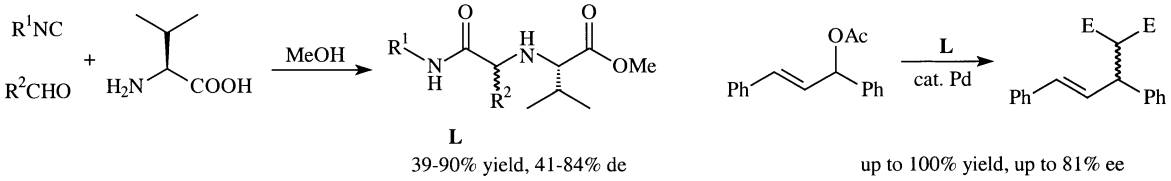


## Synthesis of novel chiral ligands from amino acids by the Ugi reaction

*Tetrahedron:* Asymmetry *13 (2002) 1929*

Gerald Dyker,* Klaus Breitenstein and Gerald Henkel

*Fachbereich 6, Institut für Synthesechemie, Gerhard-Mercator-Universität Duisburg, Lotharstraße 1, D-47048 Duisburg, Germany*

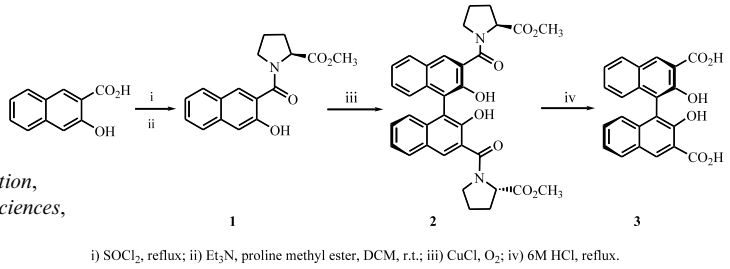



## A novel method for the synthesis of (*R*)-2,2′-dihydroxy-1,1′-binaphthyl-3,3′-dicarboxylic acid by asymmetric oxidative coupling of a chiral β-naphthol derivative catalyzed by CuCl

*Tetrahedron:* Asymmetry *13 (2002) 1937*

Zhuo-qun Xin,[a] Chao-shan Da,[a] Shou-liang Dong,[a] Da-xue Liu,[a] Jie Wei[a] and Rui Wang[a,b,*]

[a]*Department of Biochemistry & Molecular Biology, School of Life Sciences, Lanzhou University, Lanzhou 730000, China*
[b]*State Key Laboratory for Oxo Synthesis and Selective Oxidation, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou 730000, China*



*Tetrahedron:* Asymmetry *13 (2002) 1941*

## An exploration of asymmetric Baylis–Hillman reactions catalyzed by quinidine-derived chiral amines

Min Shi* and Jian-Kang Jiang

*State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Road, 200032 Shanghai, PR China*

We used quinidine derived chiral amine **1** to catalyze the asymmetric Baylis–Hillman reaction of aldehydes with methyl vinyl ketone (MVK) or (α)-naphthyl acrylate. Up to 49 and 92% ee were achieved, respectively.