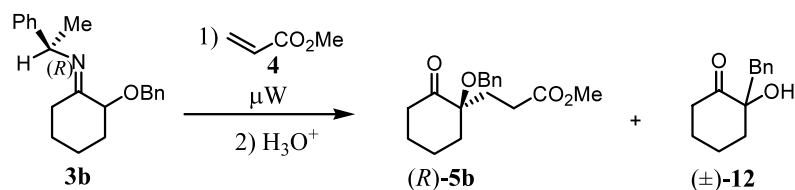


### Microwave activation of an asymmetric Michael reaction: unexpected behaviour of chiral $\alpha$ -alkoxy imines

*Tetrahedron: Asymmetry 14 (2003) 3263*

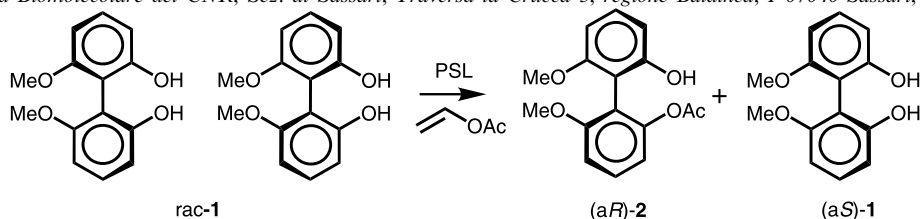
Cheikhou Camara, Laurent Keller and Françoise Dumas\*

*BIOCIS, Unité associée au CNRS, Centre d'Etudes Pharmaceutiques, Université Paris Sud, 5, rue J.-B. Clément, 92290, Châtenay-Malabry Cedex, France*


### Access to optically active 2,2'-dihydroxy-6,6'-dimethoxy-1,1'-biphenyl by a simple biocatalytic procedure

*Tetrahedron: Asymmetry 14 (2003) 3267*

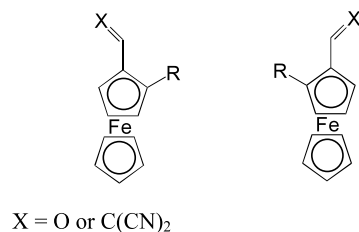
 Claudia Sanfilippo,<sup>a,\*</sup> Giovanni Nicolosi,<sup>a</sup> Giovanna Delogu,<sup>b,\*</sup> Davide Fabbri<sup>b</sup> and Maria Antonietta Dettori<sup>b</sup>
<sup>a</sup>Istituto di Chimica Biomolecolare del CNR, Sez. di Catania, Via del Santuario 110, I-95028 Valverde CT, Italy

<sup>b</sup>Istituto di Chimica Biomolecolare del CNR, Sez. di Sassari, Traversa la Crucca 3, regione Balduca, I-07040 Sassari, Italy


### Circular dichroism spectra of planar chiral 2-substituted ferrocenecarboxaldehydes and 2-ferrocenyl-1,1-dicyanoethylenes

*Tetrahedron: Asymmetry 14 (2003) 3271*

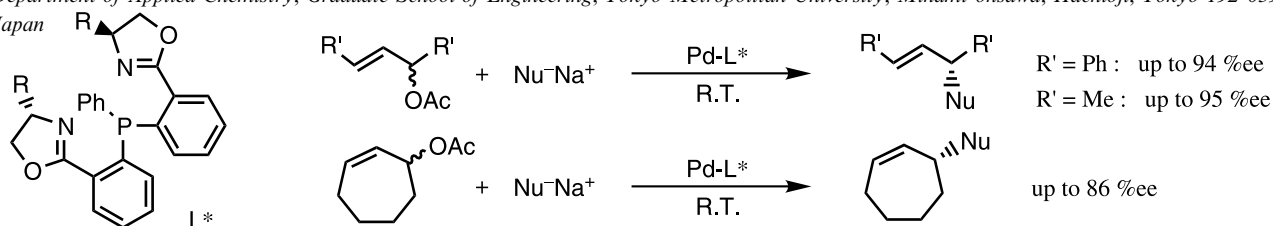
Izabela Janowska and Janusz Zakrzewski\*

*Department of Organic Chemistry, University of Lodz, 90-136 Lodz, Narutowicza 68, Poland*


### Construction of *P*-stereogenic center by selective ligation of N–P–N type ligands and application to asymmetric allylic substitution reactions

*Tetrahedron: Asymmetry 14 (2003) 3275*

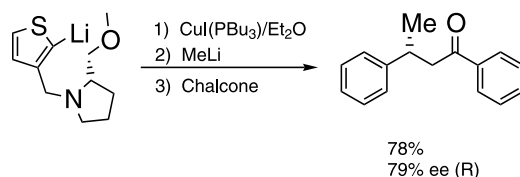
Takamichi Yamagishi,\* Masatoshi Ohnuki, Takahiro Kiyooka, Dai Masui, Kiyoshi Sato and Motowo Yamaguchi

*Department of Applied Chemistry, Graduate School of Engineering, Tokyo Metropolitan University, Minami-ohsawa, Hachioji, Tokyo 192-0397, Japan*


## Chiral lithiothiophenes as non-transferable ligands in organocuprate conjugate addition reactions

Craig A. Ogle\* and Jason B. Human

Department of Chemistry, University of North Carolina at Charlotte, Charlotte, NC 28223, USA



*Tetrahedron: Asymmetry* 14 (2003) 3281

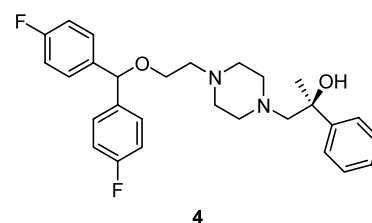
## A concise synthesis of (*S*)-(+)-1-(4-{2-[bis-(4-fluorophenyl)-methoxy]-ethyl}piperazin-1-yl)-2-phenylpropan-2-ol dimaleate

Thomas Prisinzano,<sup>a</sup> Ling-Wei Hsin,<sup>a</sup> John E. Folk,<sup>a</sup>  
Judith L. Flippen-Anderson,<sup>b</sup> Clifford George,<sup>b</sup> Arthur E. Jacobson<sup>a</sup>  
and Kenner C. Rice<sup>a,\*</sup>

<sup>a</sup>Laboratory of Medicinal Chemistry, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Department of Health and Human Services, Bethesda, MD 20892, USA

<sup>b</sup>Laboratory for the Structure of Matter, Naval Research Laboratory, Washington DC 20375, USA

*Tetrahedron: Asymmetry* 14 (2003) 3285



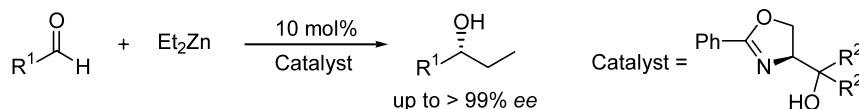
## The facile synthesis of chiral oxazoline catalysts for the diethylzinc addition to aldehydes

Antonio L. Braga,<sup>a,\*</sup> Rodrigo M. Rubim,<sup>a</sup> Henri S. Schrekker,<sup>b</sup> Ludger A. Wessjohann,<sup>b</sup>  
Martin W. G. de Bolster,<sup>c</sup> Gilson Zeni<sup>a</sup> and Jasquer A. Sehnem<sup>a</sup>

<sup>a</sup>Departamento de Química, Universidade Federal de Santa Maria, 97105-900, Santa Maria, RS, Brazil

<sup>b</sup>Institute of Plant Biochemistry, Weinberg 3, D-06120 Halle (Saale), Germany

<sup>c</sup>Faculty of Sciences Chemistry Division, Department of Organic and Inorganic Chemistry, Vrije Universiteit Amsterdam, De Boelelaan 1083, 1081 HV Amsterdam, The Netherlands



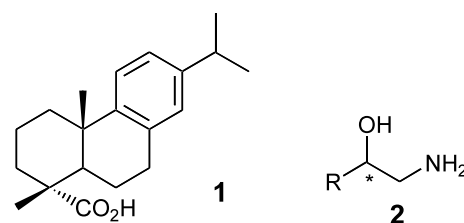
*Tetrahedron: Asymmetry* 14 (2003) 3291

## Resolution of $\beta$ -aminoalcohols and 1,2-diamines using fractional crystallization of diastereomeric salts of dehydroabiatic acid

Zhang Guangyou, Liao Yuquing, Wang Zhaohui, Hiroyuki Nohira  
and Takuji Hirose\*

Department of Applied Chemistry, Faculty of Engineering, Saitama University,  
255 Shimo-ohkubo, Sakura, Urawa, Saitama 338-8570, Japan

Dehydroabiatic acid **1** showed good optical resolution ability towards  
four kinds of  $\beta$ -amino alcohols **2** and diaminocyclohexane giving 81 ~ >99%  
enantiomeric excess.



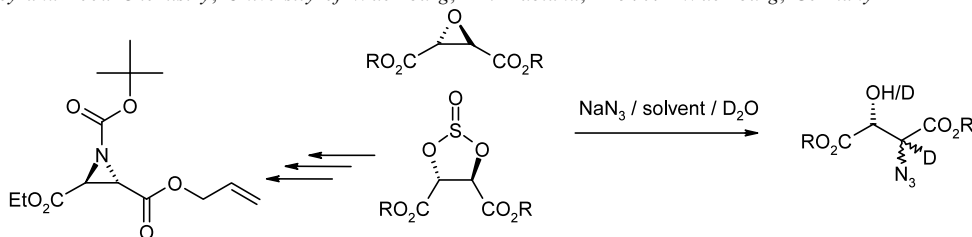
*Tetrahedron: Asymmetry* 14 (2003) 3297

## An improved synthesis of aziridine-2,3-dicarboxylates via azido alcohols—epimerization studies

*Tetrahedron: Asymmetry 14 (2003) 3301*

Alexander Breuning, Radim Vicik and Tanja Schirmeister\*

*Institute of Pharmacy and Food Chemistry, University of Wuerzburg, Am Hubland, D-97074 Wuerzburg, Germany*

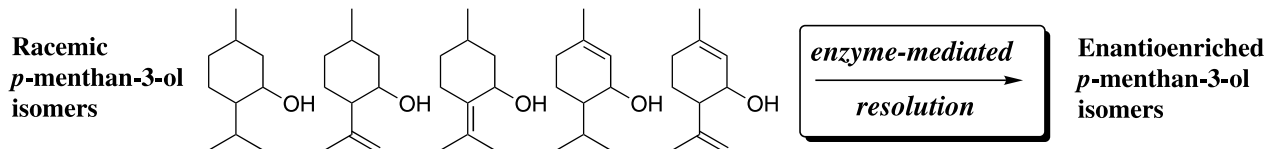


## Lipase-catalyzed resolution of *p*-menthan-3-ols monoterpenes: preparation of the enantiomer-enriched forms of menthol, isopulegol, *trans*- and *cis*-piperitol, and *cis*-isopiperitenol

*Tetrahedron: Asymmetry 14 (2003) 3313*

Stefano Serra,\* Elisabetta Brenna, Claudio Fuganti and Francesco Maggioni

*CNR, Istituto di Chimica del Riconoscimento Molecolare, Dipartimento di Chimica, Materiali ed Ingegneria Chimica del Politecnico, Via Mancinelli, 7 I-20131 Milano, Italy*



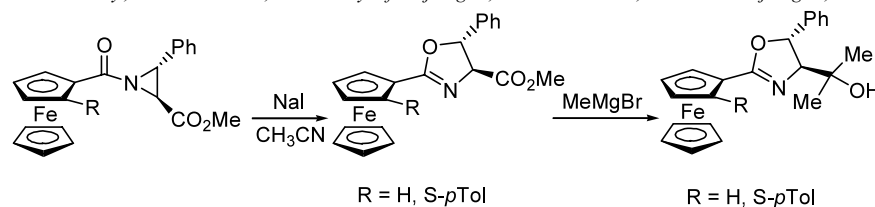
## Synthesis of ferrocenyl-oxazolines by ring expansion of *N*-ferrocenyl-aziridine-2-carboxylic esters

*Tetrahedron: Asymmetry 14 (2003) 3321*

Bianca F. Bonini,<sup>a,\*</sup> Mariafrancesca Fochi,<sup>a</sup> Mauro Comes-Franchini,<sup>a</sup> Alfredo Ricci,<sup>a</sup> Lambertus Thijs<sup>b</sup> and Binne Zwanenburg<sup>b,\*</sup>

<sup>a</sup>*Dipartimento di Chimica Organica 'A. Mangini', Università di Bologna, Viale Risorgimento 4, 40136 Bologna, Italy*

<sup>b</sup>*Department of Organic Chemistry, NSR Institute, University of Nijmegen, Toernooiveld 1, 6525 ED Nijmegen, The Netherlands*

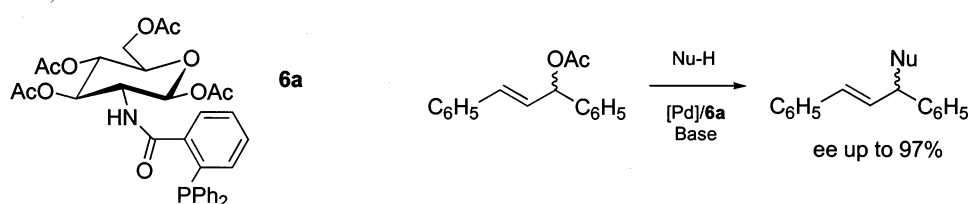


## Palladium-catalyzed asymmetric allylic alkylation using chiral glucosamine-based monophosphines

*Tetrahedron: Asymmetry 14 (2003) 3329*

Mustapha Tollabi, Eric Framery, Catherine Goux-Henry and Denis Sinou\*

*Laboratoire de Synthèse Asymétrique, associé au CNRS, CPE Lyon, Université Claude Bernard Lyon 1, 43, boulevard du 11 novembre 1918, 69622 Villeurbanne Cedex, France*



### Stereoselective synthesis of (*R*)-(-)-mianserin

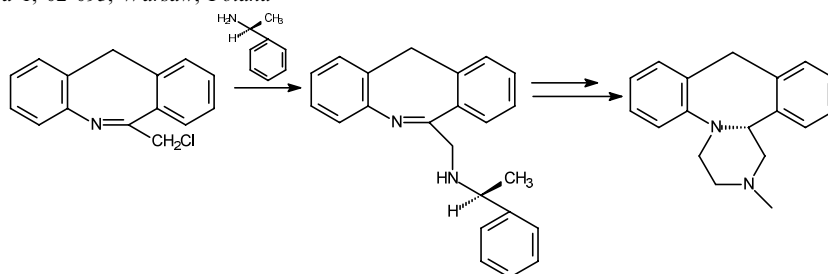
*Tetrahedron: Asymmetry 14 (2003) 3335*

J. Pawłowska,<sup>a</sup> Z. Czarnocki,<sup>a,\*</sup> K. Wojtasiewicz<sup>a</sup> and J. K. Maurin<sup>b,c</sup>

<sup>a</sup>Faculty of Chemistry, Warsaw University, Pasteura 1, 02-093, Warsaw, Poland

<sup>b</sup>Drug Institute, Chelmska 30/34, 00-750 Warsaw, Poland

<sup>c</sup>Institute of Atomic Energy, 05-400 Otwock-Swierk, Poland



### Resolution and determination of the absolute configuration of 3,3',4,4'-tetramethyl-1,1'-diphosphaferrocene-2-carboxaldehyde

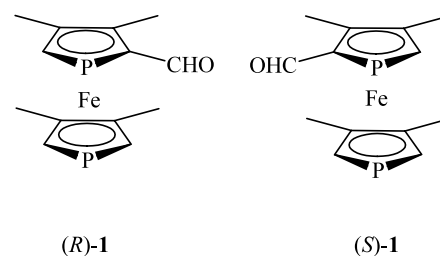
*Tetrahedron: Asymmetry 14 (2003) 3343*

Arkadiusz Kłys,<sup>a</sup> Janusz Zakrzewski<sup>a,\*</sup> and Lucjan Jerzykiewicz<sup>b</sup>

<sup>a</sup>Department of Organic Chemistry, University of Łódź, 90-136 Łódź, Narutowicza 68, Poland

<sup>b</sup>Faculty of Chemistry, University of Wrocław, Joliot-Curie 14, 50-383 Wrocław, Poland

Resolved via the formation of diastereomeric acetals with (*S*)-(+)-1-phenyl-1,2-ethanediol.

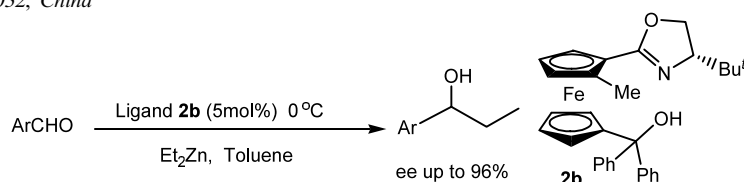


### On the role of planar chirality in asymmetric catalysis: Improvement of enantioselectivity in the addition of diethylzinc to aldehydes with planar chiral 1,1'-*N,O*-ferrocenyl ligands

*Tetrahedron: Asymmetry 14 (2003) 3347*

Ming Li, Ke Yuan, Yang-Yang Li, Bo-Xun Cao, Jie Sun and Xue-Long Hou\*

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

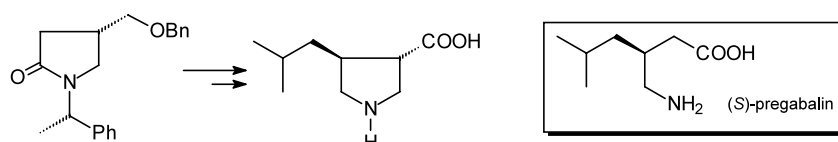


### Synthesis of a conformationally restricted analog of pregabalin by stereoselective alkylation of a chiral pyrrolidin-2-one

*Tetrahedron: Asymmetry 14 (2003) 3353*

Roberta Galeazzi, Gianluca Martelli, Giovanna Mobbili, Mario Orena\* and Samuele Rinaldi

Dipartimento di Scienze dei Materiali e della Terra-Università Politecnica delle Marche-Via Brecce Bianche-I-60131 Ancona, Italy

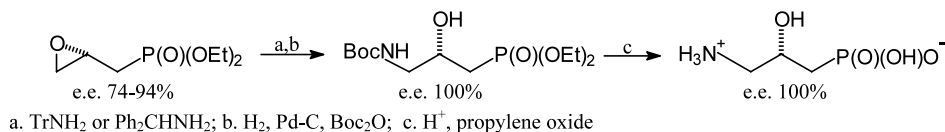


## An efficient synthesis of an enantiomerically pure phosphonate analogue of L-GABOB

*Tetrahedron: Asymmetry 14 (2003) 3359*

Andrzej E. Wróblewski\* and Anetta Hałajewska-Wosik

*Biorganic Chemistry Laboratory, Faculty of Pharmacy, Medical University of Łódź, 90-151 Łódź, Muszyńskiego 1, Poland*



## Asymmetric routes towards polyfunctionalized pyrrolidines: application to the synthesis of alkaloid analogues

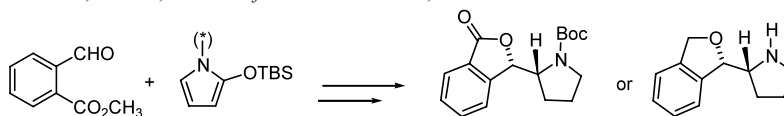
*Tetrahedron: Asymmetry 14 (2003) 3365*

Martial Toffano,<sup>a</sup> Bruno Dudot,<sup>a</sup> Anne Zaparucha,<sup>a</sup> Jacques Royer,<sup>a,\*</sup> Mireille Sevrin,<sup>b</sup> Pascal George<sup>b</sup> and Angèle Chiaroni<sup>c</sup>

<sup>a</sup>*Laboratoire de Chimie Thérapeutique associé au CNRS et à l'Université René Descartes (UMR 8638), Faculté de Pharmacie, 4, Avenue de l'Observatoire, 75270 Paris cedex 06, France*

<sup>b</sup>*Sanofi-Synthélabo Recherche, 31 Avenue Paul Vaillant-Couturier, 92220 Bagneux cedex, France*

<sup>c</sup>*Institut de Chimie des Substances Naturelles, CNRS, 91198 Gif Sur Yvette cedex, France*

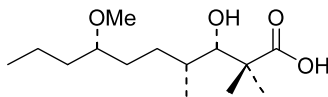


## Asymmetric synthesis of (3*S*,4*R*,7*S*)-(-)-3-hydroxy-7-methoxy-2,2,4-trimethyl-decanoic acid, a plausible polyketide fragment of halipeptin A

*Tetrahedron: Asymmetry 14 (2003) 3371*

Carmela Della Monica, Nakia Maulucci, Francesco De Riccardis\* and Irene Izzo\*

*University of Salerno, Department of Chemistry, via S. Allende, Baronissi, I-84081 (SA), Italy*

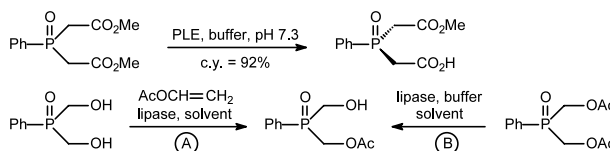


## The first enzymatic desymmetrizations of prochiral phosphine oxides

*Tetrahedron: Asymmetry 14 (2003) 3379*

Piotr Kiełbasiński,\* Remigiusz Żurawiński, Małgorzata Albrycht and Marian Mikołajczyk\*

*Centre of Molecular and Macromolecular Studies, Polish Academy of Sciences, Department of Heteroorganic Chemistry, 90-363 Łódź, Sienkiewicza 112, Poland*



## Studying enzyme enantioselectivity using combined *ab initio* and free energy calculations: $\alpha$ -chymotrypsin and methyl *cis*- and *trans*-5-oxo-2-pentylpyrrolidine-3-carboxylates

*Tetrahedron: Asymmetry* 14 (2003) 3385

F. Felluga,<sup>a</sup> G. Pitacco,<sup>a</sup> E. Valentin,<sup>a</sup> A. Coslanich,<sup>b</sup> M. Fermeglia,<sup>b</sup> M. Ferrone<sup>b</sup> and S. Prici<sup>b,\*</sup>

<sup>a</sup>Department of Chemical Sciences, University of Trieste, Via Licio Giorgieri 1, 34127 Trieste, Italy

<sup>b</sup>Computer-aided Systems Laboratory, Department of Chemical, Environmental and Raw Materials Engineering, DICAMP, University of Trieste, Piazzale Europa 1, 34127 Trieste, Italy

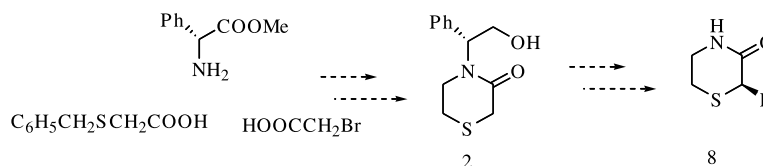
The results obtained from the application of a computational approach, based on molecular dynamics (MD) simulations and quantum mechanical-free energy (QM-FE) calculations are presented in order to explain the different substrate specificity and the enantioselectivity of  $\alpha$ -chymotrypsin ( $\alpha$ -CT) towards the hydrolysis of distereoisomeric methyl 5-oxo-2-pentylpyrrolidine-3-carboxylates.

## Efficient enantioselective synthesis of 2-substituted thiomorpholin-3-ones

*Tetrahedron: Asymmetry* 14 (2003) 3401

Nicolas Franceschini, Sophie Da Nascimento, Pascal Sonnet and Dominique Guillaume\*

Laboratoire de Chimie Thérapeutique, EA 2629, 1 rue des Louvels, 80000 Amiens, France



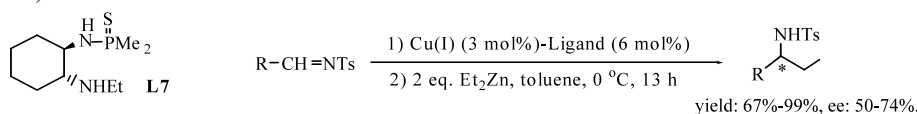
## Chiral $C_1$ -symmetric diaminothiophosphoramidate-Cu(I) catalyzed asymmetric addition of diethylzinc to *N*-sulfonylimines

*Tetrahedron: Asymmetry* 14 (2003) 3407

Min Shi\* and Wen Zhang

State Key Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Science, 354 Fenglin Lu, Shanghai 200032, China

In the presence of a catalytic amount of chiral diaminothiophosphoramidate **L7** (6 mol%) and Cu(I) (3 mol%), the asymmetric addition of diethylzinc to *N*-sulfonylimines could be achieved in good yields with moderate to high e.e. (50–74% e.e.) at 0°C in toluene.



## Synthesis of novel *P*-ketimine bidentate ferrocenyl ligands with central and planar chirality and comparison in the catalytic activity between *P*-ketimine and *P*-aldimine

*Tetrahedron: Asymmetry* 14 (2003) 3415

Xiangping Hu, Huilin Chen, Huicong Dai and Zhuo Zheng\*

Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, PR China

