

**Enantioselective perception of chiral odorants***Tetrahedron: Asymmetry 14 (2003) 1*

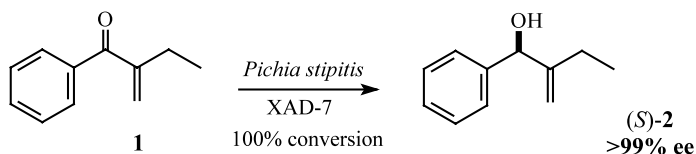
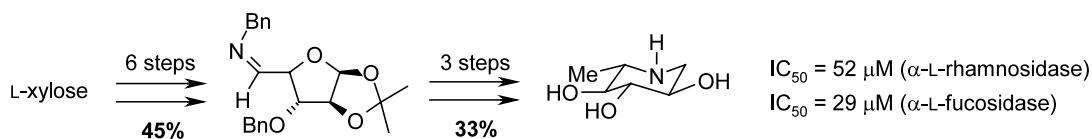
Elisabetta Brenna,\* Claudio Fuganti and Stefano Serra

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

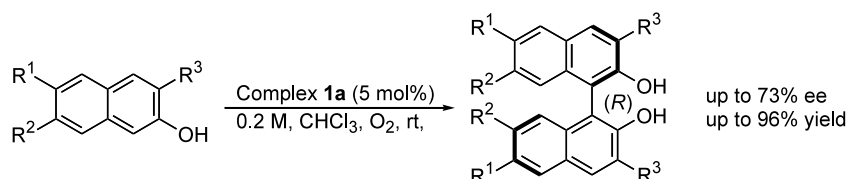
Enantiomers of chiral fragrances and flavours may show different odour quality and/or odour intensity. Great effort has been devoted by chemists to investigate the 'best enantiomer' of chiral odorants. This research has not only economic, but also social implications, related to the welfare of human beings and of their environment.

**Highly efficient extractive biocatalysis in the asymmetric reduction of an acyclic enone by the yeast *Pichia stipitis****Tetrahedron: Asymmetry 14 (2003) 43*

Gelson J. Andrade Conceição, Paulo J. S. Moran and J. Augusto R. Rodrigues\*

*Universidade Estadual de Campinas, Instituto de Química, CP 6154, 13083-970, Campinas-SP, Brazil***First stereocontrolled synthesis and biological evaluation of 1,6-dideoxy-L-nojirimycin***Tetrahedron: Asymmetry 14 (2003) 47*Aymeric Bordier,<sup>a</sup> Philippe Compain,<sup>a</sup> Olivier R. Martin,<sup>a,\*</sup> Kyoko Ikeda<sup>b</sup> and Naoki Asano<sup>b</sup><sup>a</sup>*Institut de Chimie Organique et Analytique, CNRS, Université d'Orléans, BP 6759, 45067 Orléans, France*<sup>b</sup>*Faculty of Pharmaceutical Sciences, Hokuriku University, Kanazawa 920-1181, Japan***Catalytic enantioselective coupling of 2-naphthols by new chiral oxovanadium complexes bearing a self accelerating functional group***Tetrahedron: Asymmetry 14 (2003) 53*

Chang-Ying Chu and Biing-Jiun Uang\*

*Department of Chemistry, National Tsing Hua University, Hsinchu, Taiwan 300, ROC*

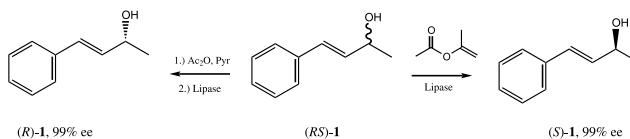
## Lipase-catalyzed access to enantiomerically pure (*R*)- and (*S*)-*trans*-4-phenyl-3-butene-2-ol

*Tetrahedron: Asymmetry* 14 (2003) 57

Ashraf Ghanem and Volker Schurig\*

*Institute of Organic Chemistry, University of Tübingen, Auf der Morgenstelle 18, D-72076 Tübingen, Germany*

The enzymatic kinetic resolution of (*RS*)-*trans*-4-phenyl-3-butene-2-ol was investigated by screening a range of lipases both for enantioselective transesterification and for enantioselective hydrolysis of its acetate.

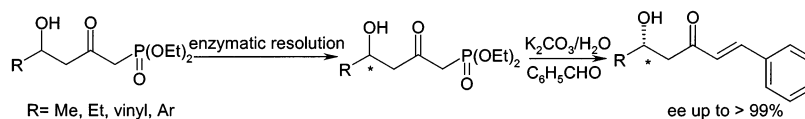


## Enzymatic synthesis of optically active $\delta$ -hydroxy- $\beta$ -ketoalkanephosphonates

*Tetrahedron: Asymmetry* 14 (2003) 63

Yonghui Zhang, Chengfu Xu, Jinfeng Li and Chengye Yuan\*

*Shanghai Institute of Organic Chemistry, Chinese Academy of Science, 345 Lingling Lu, Shanghai 200032, China*

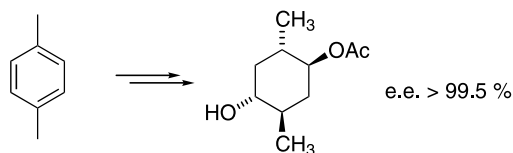


## Enzymatic desymmetrization of a centrosymmetric diacetate

*Tetrahedron: Asymmetry* 14 (2003) 71

C. Böhm, W. F. Austin and D. Trauner\*

*Center for New Directions in Organic Synthesis, Department of Chemistry, University of California, Berkeley, CA 94720, USA*



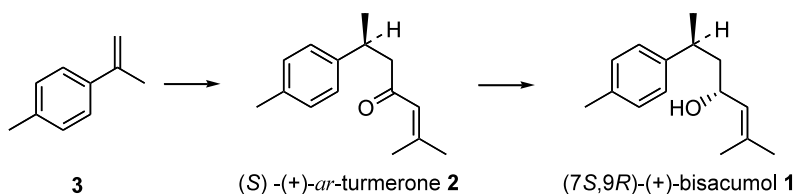
## Total asymmetric synthesis of (7*S*,9*R*)-(+)-bisacumol

*Tetrahedron: Asymmetry* 14 (2003) 75

Anpai Li,<sup>a</sup> Guoren Yue,<sup>a</sup> Yang Li,<sup>a</sup> Xinfu Pan<sup>a,\*</sup> and Teng-Kuei Yang<sup>b</sup>

<sup>a</sup>*Department of Chemistry, National Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou 730000, PR China*

<sup>b</sup>*Department of Chemistry, National Chung-Hsing University, Taichung, Taiwan*



## Confirmation of the structure of a glucono-1,4-lactone derivative obtained from silylation of glucono-1,5-lactone

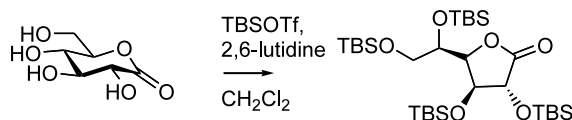
*Tetrahedron: Asymmetry 14 (2003) 79*

Paul V. Murphy,<sup>a,\*</sup> Ciaran McDonnell,<sup>a</sup> Ludger Hämig,<sup>b</sup> Duncan E. Paterson<sup>c</sup> and Richard J. K. Taylor<sup>c</sup>

<sup>a</sup>Department of Chemistry, Centre for Synthesis and Chemical Biology, Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Belfield, Dublin 4, Ireland

<sup>b</sup>Bruker AXS GmbH, Östliche Rheinbrückenstraße 49, D-76187 Karlsruhe, Germany

<sup>c</sup>Department of Chemistry, University of York, Heslington, York YO10 5DD, UK



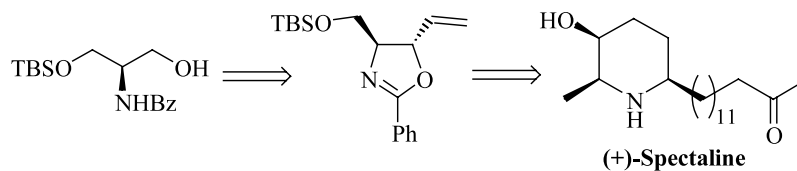
## Stereoselective synthesis of (+)-spectaline

*Tetrahedron: Asymmetry 14 (2003) 87*

Yiu-Suk Lee,<sup>a</sup> Yong-Ho Shin,<sup>a</sup> Yong-Hyun Kim,<sup>a</sup> Kee-Young Lee,<sup>a</sup> Chang-Young Oh,<sup>a</sup> Sung-Jae Pyun,<sup>a</sup> Hyun-Ju Park,<sup>a</sup> Jin-Hyun Jeong<sup>b</sup> and Won-Hun Ham<sup>a,\*</sup>

<sup>a</sup>College of Pharmacy, SungKyunKwan University, Suwon 440-746, Korea

<sup>b</sup>College of Pharmacy, Kyung Hee University, Seoul 130-701, Korea



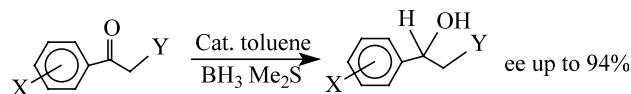
## Asymmetric carbonyl reduction with borane catalyzed by chiral phosphinamides derived from L-amino acid

*Tetrahedron: Asymmetry 14 (2003) 95*

Kangying Li,<sup>a</sup> Zhenghong Zhou,<sup>a</sup> Lixin Wang,<sup>a</sup> Qifa Chen,<sup>b</sup> Guofeng Zhao,<sup>a</sup> Qilin Zhou<sup>a</sup> and Chuchi Tang<sup>a,\*</sup>

<sup>a</sup>State Key Laboratory of Elemento-Organic Chemistry, Institute of Elemento-Organic Chemistry, Nankai University, Tianjin 300071, PR China

<sup>b</sup>Centre Laboratory, Nankai University, Tianjin 300071, PR China

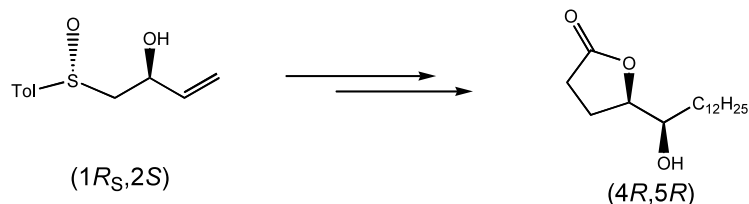


## The sulfinyl moiety as an intramolecular nucleophile. Part 3: Synthesis of (-)-muricatacin

*Tetrahedron: Asymmetry 14 (2003) 101*

Sadagopan Raghavan\* and S. C. Joseph

Organic Division I, Indian Institute of Chemical Technology, Hyderabad 500 007, India



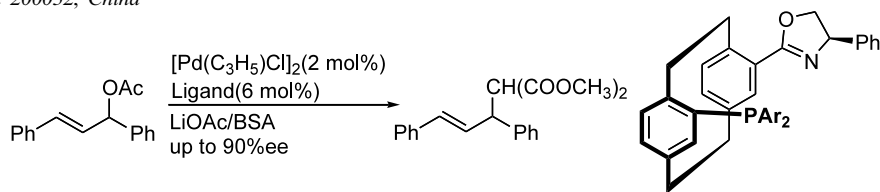
### Novel planar chiral *P,N*-[2.2]paracyclophane ligands: synthesis and application in palladium-catalyzed allylic alkylation

*Tetrahedron: Asymmetry* 14 (2003) 107

Xun-Wei Wu,<sup>a</sup> Ke Yuan,<sup>a</sup> Wei Sun,<sup>a</sup> Ming-Jie Zhang<sup>a</sup> and Xue-Long Hou<sup>a,b,\*</sup>

<sup>a</sup>Laboratory of Organometallic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China

<sup>b</sup>Shanghai-Hong Kong Joint Laboratory in Chemical Synthesis, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, 354 Fenglin Lu, Shanghai 200032, China



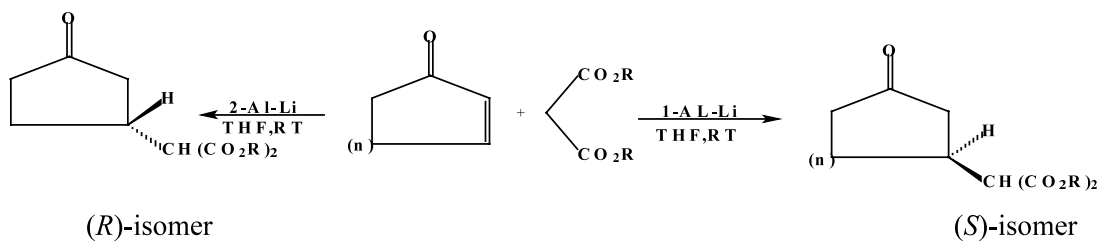
### Novel heterobimetallic catalysts for asymmetric Michael reactions

*Tetrahedron: Asymmetry* 14 (2003) 113

S. Velmathi,<sup>a</sup> S. Swarnalakshmi<sup>b</sup> and S. Narasimhan<sup>a,\*</sup>

<sup>a</sup>T.R. Govindachari Centre for Natural Products, SPIC Science Foundation, 88, Mount Road, Guindy, Chennai 600 032, India

<sup>b</sup>Department of Chemistry, Guru Nanak College, Velachery, Chennai 600 042, India

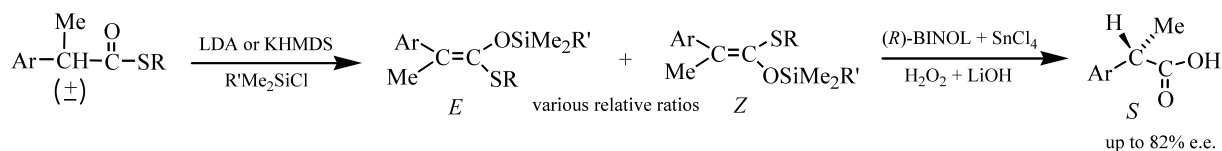


### Deracemization of thiol esters of $\alpha$ -arylpropionic acids

*Tetrahedron: Asymmetry* 14 (2003) 119

Marco Clericuzio,\* Iacopo Degani,\* Stefano Dughera and Rita Fochi

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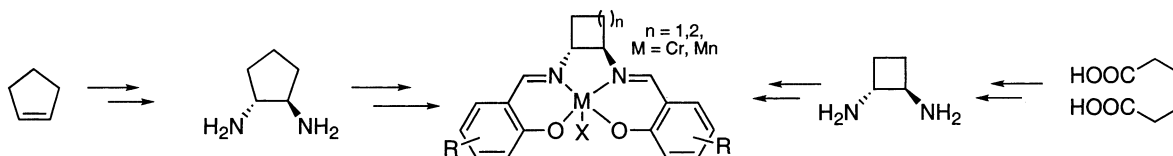


### The synthesis and use in asymmetric epoxidation of metal salen complexes derived from enantiopure *trans*-cyclopentane- and cyclobutane-1,2-diamine

*Tetrahedron: Asymmetry* 14 (2003) 127

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## Synthesis and applications of the first polyfluorous proline derivative

*Tetrahedron: Asymmetry* 14 (2003) 139

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