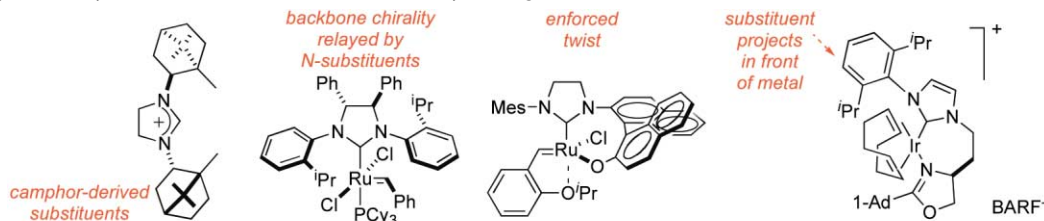
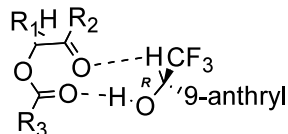


Chiral *N*-heterocyclic carbene-transition metal complexes in asymmetric catalysis*Tetrahedron: Asymmetry* 14 (2003) 951

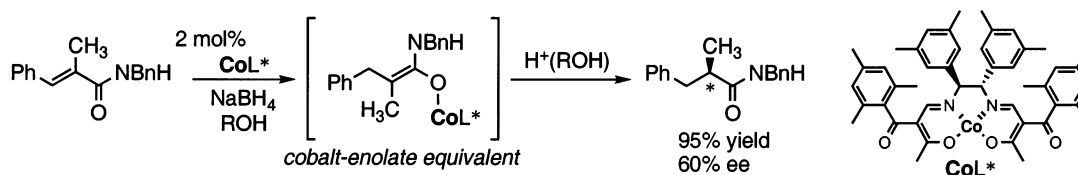
Marc C. Perry and Kevin Burgess*

Department of Chemistry, Box 30012, Texas A & M University, College Station, TX 77841-3012, USA

**NMR determination of absolute configuration of α -acyloxy ketones***Tetrahedron: Asymmetry* 14 (2003) 963Jean-Christophe Jullian,^a Xavier Franck,^a Shamil Latypov,^b Reynald Hocquemiller^a and Bruno Figadère^{a,*}^aLaboratoire de Pharmacognosie, associé au CNRS (BIOCIS), Université Paris-Sud, Faculté de Pharmacie, rue Jean-Baptiste Clément, 92296 Châtenay-Malabry, France^bInstitute of Organic & Physical Chemistry of Russian Academy of Sciences, Kazan 420083, Russia**Catalytic enantioselective protonation of cobalt-enolate equivalents generated by 1,4-reduction with borohydride***Tetrahedron: Asymmetry* 14 (2003) 967

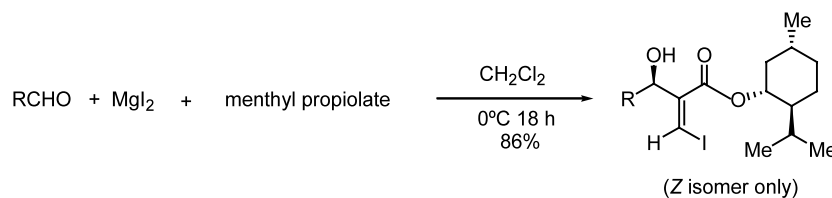
Yuhki Ohtsuka, Taketo Ikeno and Tohru Yamada*

Department of Chemistry, Faculty of Science and Technology, Keio University, Hiyoshi, Yokohama 223-8522, Japan

**Asymmetric synthesis of chiral β -iodo Baylis-Hillman esters using MgI_2 as promoter via a one-pot three-component reaction***Tetrahedron: Asymmetry* 14 (2003) 971

Han-Xun Wei, Dianjun Chen, Xin Xu, Guigen Li and Paul W. Paré*

Department of Chemistry and Biochemistry, Texas Tech University, Lubbock, TX 79409-1061, USA



Relationship between the time, yield, and enantiomeric excess of asymmetric autocatalysis of chiral 2-alkynyl-5-pyrimidyl alkanol with amplification of enantiomeric excess

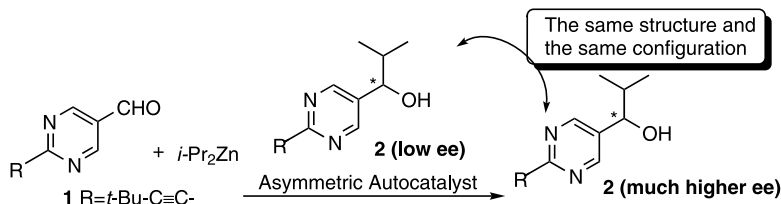
Tetrahedron: Asymmetry 14 (2003) 975

Itaru Sato,^a Daisuke Omiya,^a
Hiroyoshi Igarashi,^a Keiichi Kato,^b
Yoshihiro Ogi,^c Koichi Tsukiyama^{c,*} and
Kenso Soai^{a,*}

^aDepartment of Applied Chemistry, Faculty of Science,
Tokyo University of Science, Kagurazaka, Shinjuku-ku,
Tokyo 162-8601, Japan

^bDepartment of Mathematics, Faculty of Science,
Tokyo University of Science, Kagurazaka, Shinjuku-ku, Tokyo 162-8601, Japan

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



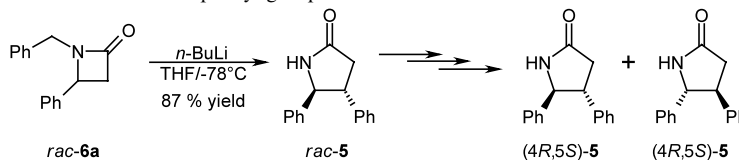
Synthesis, resolution and absolute configuration of *trans* 4,5-diphenyl-pyrrolidin-2-one: a possible chiral auxiliary

Tetrahedron: Asymmetry 14 (2003) 981

Jaime Escalante* and Miguel A. González-Tototzin

Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos, Av. Universidad 1001, 62210 Cuernavaca, Mor., Mexico

Mediate a ring expansion process the β-lactam (±)-*N*-benzyl-4-phenyl-azetidin-2-one (*rac*-6a) was converted into the γ-lactam (±)-*trans*-4,5-diphenyl-pyrrolidin-2-one (*rac*-5) that was resolved via the preparation of diastereomers with *N*-phthalyl-L-alanine chloride or D-alanine chloride and its absolute configuration was determined by X-ray crystallographic analysis. This heterocycle might be used as a chiral γ-lactam in asymmetric induction due to the steric effect of its phenyl groups.

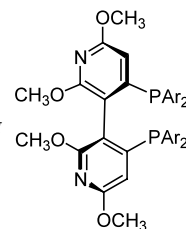
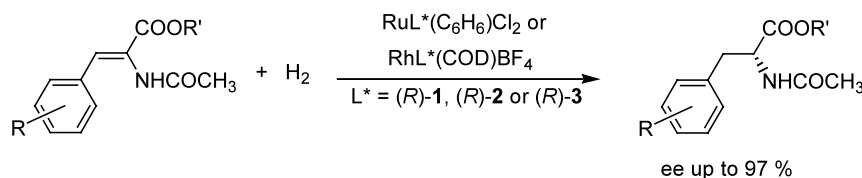


Studies on the rhodium- and ruthenium-catalyzed asymmetric hydrogenation of α-dehydroamino acids using a family of chiral dipyridylphosphine ligand (P-Phos)

Tetrahedron: Asymmetry 14 (2003) 987

Jing Wu, Cheng Chao Pai, Wai Him Kwok, Rong Wei Guo, Terry T. L. Au-Yeung,
Chi Hung Yeung* and Albert S. C. Chan*

Open Laboratory of Chirotechnology of the Institute of Molecular Technology for Drug Discovery and Synthesis
and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong



(*R*)-1, Ar = C₆H₅, (*R*)-P-Phos

(*R*)-2, Ar = 4-CH₃C₆H₄, (*R*)-Tol-P-Phos

(*R*)-3, Ar = 3,5-(CH₃)₂C₆H₃, (*R*)-Xyl-P-Phos

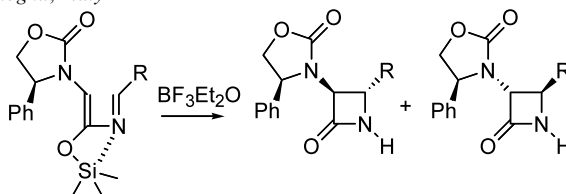
Lewis acid-catalyzed electrocyclicization of 2-aza-1,3-butadienes to *NH*-β-lactams

Tetrahedron: Asymmetry 14 (2003) 993

Alessandro Bongini,^{a,*} Mauro Panunzio,^{a,*} Emiliano Tamanini,^a
Giorgio Martelli,^b Paola Vicennati^b and Magda Monari^a

^aISOF-CNR and Università, Dipartimento di Chimica 'G. Ciamician' Via Selmi 2, 40126 Bologna, Italy

^bISOF-CNR., Via Gobetti 101, 40129 Bologna, Italy

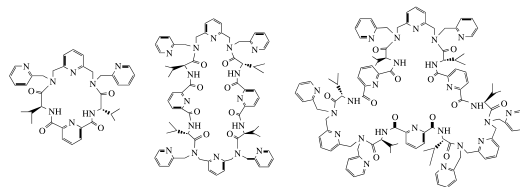


Synthesis of novel chiral polyamide macrocycles containing pyridyl side-arms and their molecular recognition properties

Tetrahedron: Asymmetry 14 (2003) 999

Xiao Chen, Da-Ming Du and Wen-Ting Hua*

Key Laboratory of Bioorganic Chemistry and Molecular Engineering of Ministry of Education, College of Chemistry and Molecular Engineering, Peking University, Beijing 100871, China



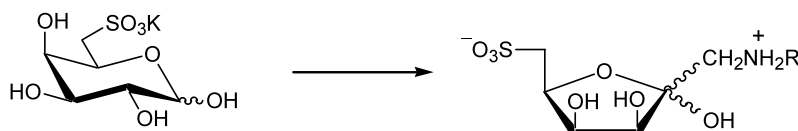
Synthesis of new C-sulfosugars and C-sulfoalditols: Amadori rearrangement of 6-C-sulfo-D-fucose

Tetrahedron: Asymmetry 14 (2003) 1009

José G. Fernández-Bolaños,^{a,*} Victor Ulgar,^a Inés Maya,^a José Fuentes,^a M^a Jesús Diáñez,^b M^a Dolores Estrada,^b Amparo López-Castro^b and Simeón Pérez-Garrido^b

^aDepartamento de Química Orgánica, Facultad de Química, Universidad de Sevilla, Apartado 553, E-41071, Sevilla, Spain

^bInstituto de Ciencias de Materiales de Sevilla and Departamento de Física de la Materia Condensada, CSIC-Universidad de Sevilla, Apartado 1065, E-41071 Sevilla, Spain

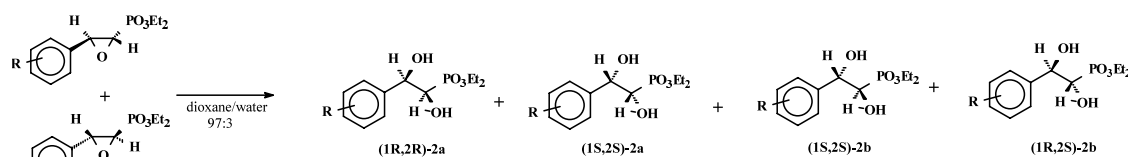


Quinine as chiral discriminator for determination of enantiomeric excess of diethyl 1,2-dihydroxyalkanephosphonates

Tetrahedron: Asymmetry 14 (2003) 1019

Alina Maly, Barbara Lejczak* and Pawel Kafarski

Institute of Organic Chemistry, Biochemistry and Biotechnology, Wrocław University of Technology, Wybrzeże Wyspińskiego 27, 50-370 Wrocław, Poland



Synthesis of chiral 1,3-calix[4](crown-6) ethers as potential mediators for asymmetric recognition processes

Tetrahedron: Asymmetry 14 (2003) 1025

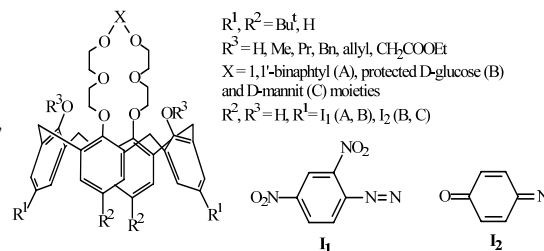
István Bitter,^{a,*} Éva Kőszegi,^a Alajos Grün,^a Péter Bakó,^a Krisztina Pál,^b András Grofcsik,^{b,d} Miklós Kubinyi,^{b,d} Barbara Balázs^c and Gábor Tóth^c

^aDepartment of Organic Chemical Technology, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

^bDepartment of Physical Chemistry, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

^cTechnical Analytical Research Group of the Hungarian Academy of Sciences, Institute for General and Analytical Chemistry, Budapest University of Technology and Economics, H-1521 Budapest, Hungary

^dChemical Research Center, Hungarian Academy of Sciences, H-1525 Budapest, Hungary



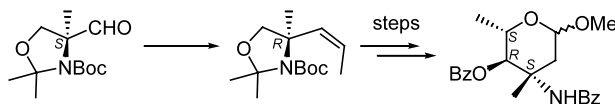
R¹, R² = Bu^t, H
R³ = H, Me, Pr, Bn, allyl, CH₂COOEt
X = 1,1'-binaphthyl (A), protected D-glucose (B) and D-mannit (C) moieties
R², R³ = H, R¹ = I₁ (A, B), I₂ (B, C)

Diastereoselective synthesis of protected 4-*epi*-vancosamine from (*S*)-*N*-Boc-*N*,*O*-isopropylidene- α -methylserinal

Alberto Avenoza,* Jesús H. Busto, Francisco Corzana, Jesús M. Peregrina,* David Sucunza and María M. Zurbano

Departamento de Química, Universidad de La Rioja, Grupo de Síntesis Química de La Rioja, U.A.-C.S.I.C., 26006 Logroño, Spain

Tetrahedron: Asymmetry 14 (2003) 1037



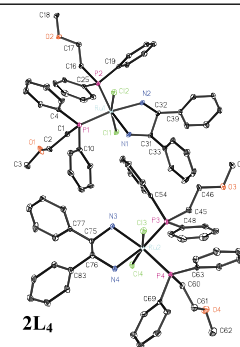
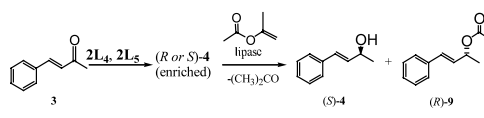
Asymmetric hydrogenation of an α,β -unsaturated ketone by diamine(ether-phosphine)ruthenium(II) complexes and lipase-catalyzed kinetic resolution: a consecutive approach

Ekkehard Lindner,^{a,*} Ashraf Ghanem,^b Ismail Warad,^a Klaus Eichele,^a Hermann A. Mayer^a and Volker Schurig^b

^aInstitute of Inorganic Chemistry, University of Tübingen, Auf der Morgenstelle 18, 72076 Tübingen, Germany

^bInstitute of Organic Chemistry, University of Tübingen, Auf der Morgenstelle 18, 72076 Tübingen, Germany

Tetrahedron: Asymmetry 14 (2003) 1045

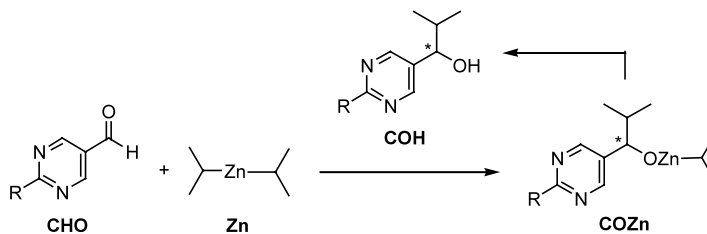


A tentative kinetic model for chiral amplification in autocatalytic alkylzinc additions

Thomas Buhse*

Centro de Investigaciones Químicas, Universidad Autónoma del Estado de Morelos, Av. Universidad No. 1001, Col. Chamilpa, 62210 Cuernavaca, Morelos, Mexico

Tetrahedron: Asymmetry 14 (2003) 1055

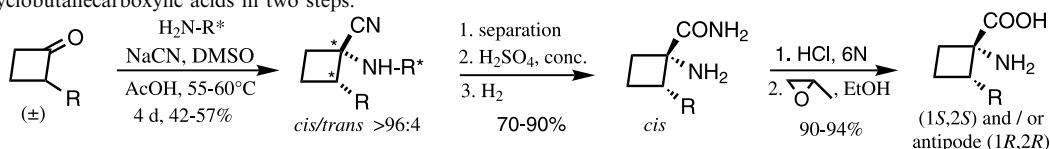


First synthesis of (1*S*,2*S*)- and (1*R*,2*R*)-1-amino-2-isopropylcyclobutanecarboxylic acids by asymmetric Strecker reaction from 2-substituted cyclobutanones

Molika Truong, Frédéric Lecornué and Antoine Fadel*

Laboratoire des Carbocycles (Associé au CNRS), Institut de Chimie Moléculaire et des Matériaux d'Orsay, Bât. 420, Université Paris-Sud, 91405 Orsay, France

In the presence of sodium cyanide and a chiral amine the racemic α -alkylcyclobutanones underwent a one-pot asymmetric Strecker reaction to give the corresponding amino nitriles with high diastereoselectivity. After separation the resulting amides furnish new enantiopure 1-amino-2-isopropylcyclobutanecarboxylic acids in two steps.



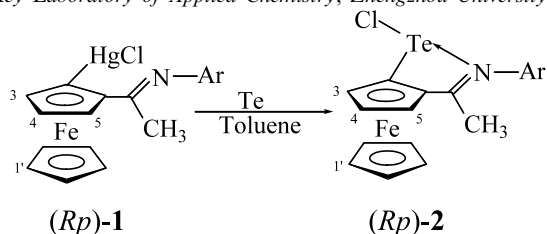
Tetrahedron: Asymmetry 14 (2003) 1063

Synthesis of novel chiral tellurium complexes by redox reaction of planar chiral cyclomercurated ferrocenylimines with tellurium powder and X-ray crystal structure of [TeCl{C₅H₅FeC₅H₃C(CH₃)=N-C₆H₄-4-CH₃}]

Tetrahedron: Asymmetry 14 (2003) 1073

Yangjie Wu,* Liangru Yang, Xiuling Cui, Chenxia Du and Yu Zhu

Department of Chemistry, Henan Key Laboratory of Applied Chemistry, Zhengzhou University, Zhengzhou 450052, PR China



Enantioselective cathodic reduction of some prochiral ketones in the presence of (-)-N,N'-dimethylquininium tetrafluoroborate at mercury cathode

Tetrahedron: Asymmetry 14 (2003) 1079

Ashok K. Yadav,* Meera Manju and Pukh Raj Chhinpa

Department of Chemistry, University of Rajasthan, Jaipur-302 004, India

1, 3,4-Dihydro-1(2*H*)-naphthalenone; **2**, 2-Octanone; **3**, 1-Phenyl-2-propanone; **4**, *E*-3-Octen-2-one; **5**, 1-Octyn-3-one; **6**, 1-Undecyn-3-one; **7**, 1-Tetradecyn-3-one.

