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Tetrahedron:
Asymmetry

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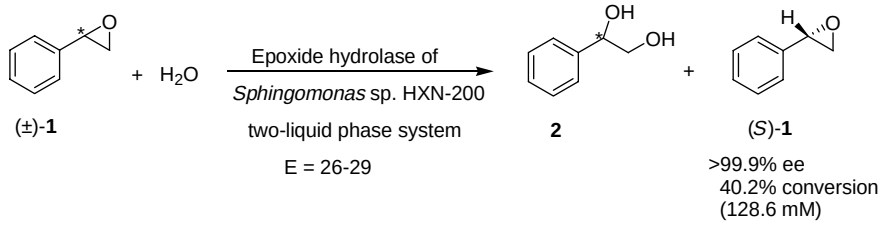

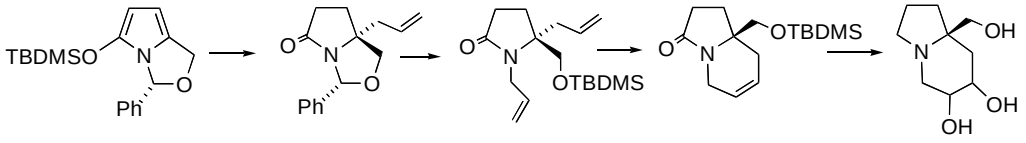

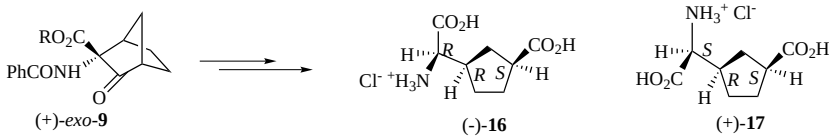

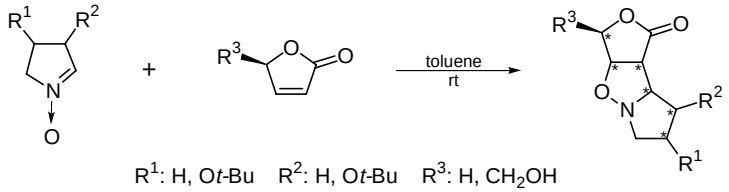

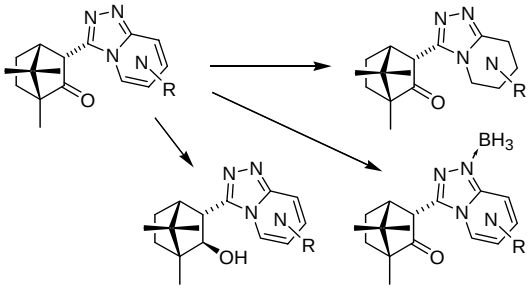

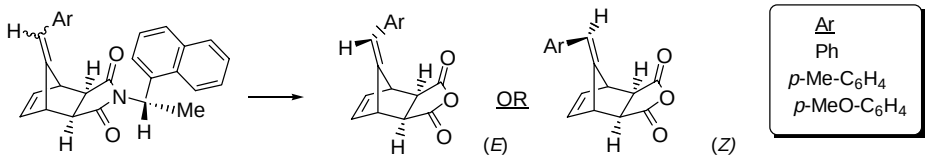

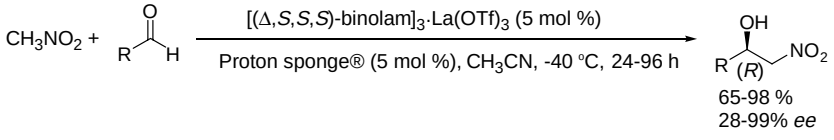

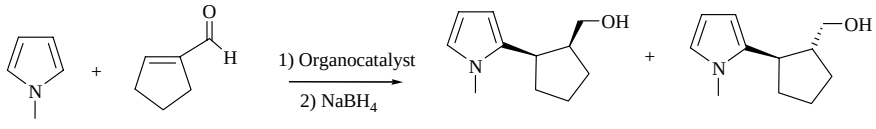

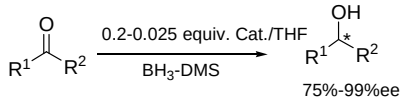

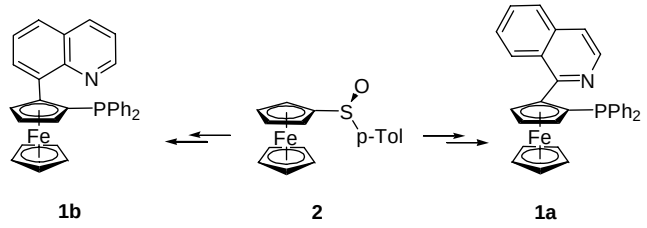

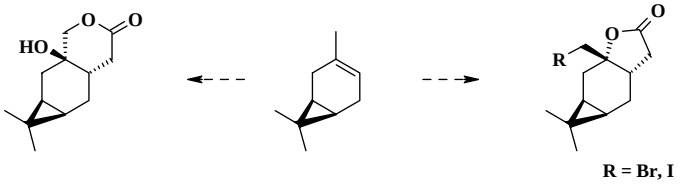

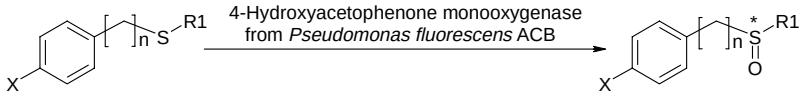

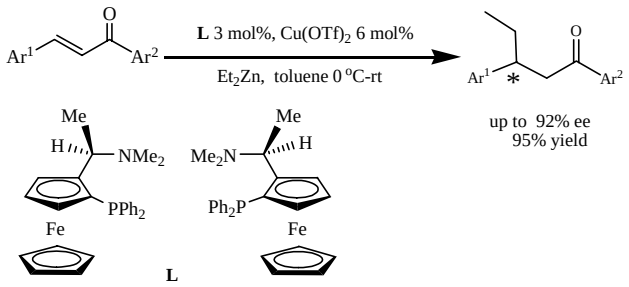

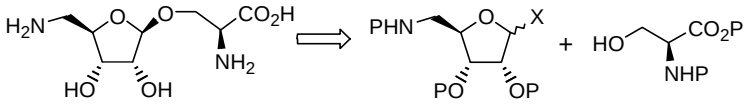

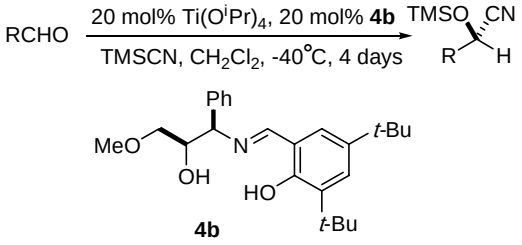

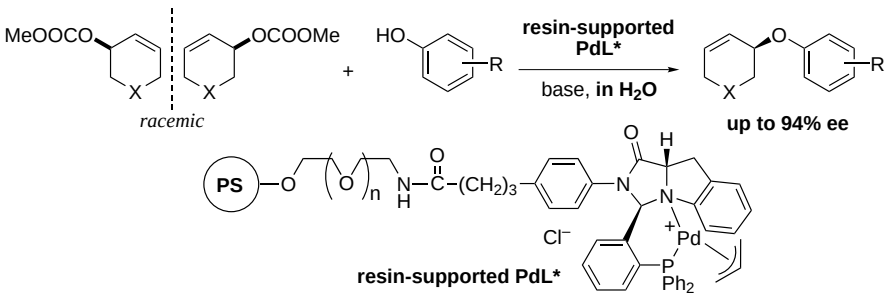

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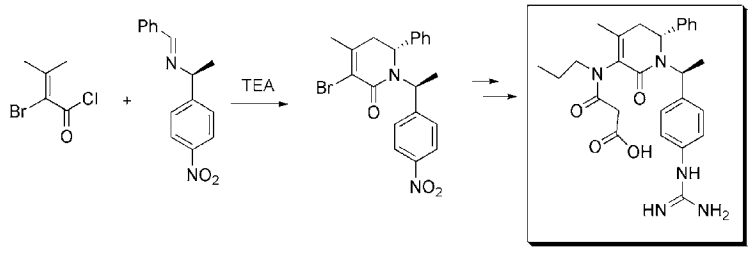

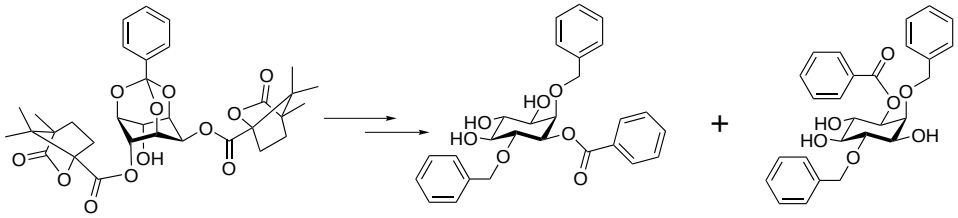

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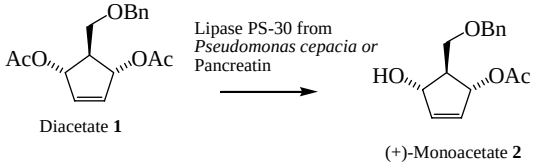
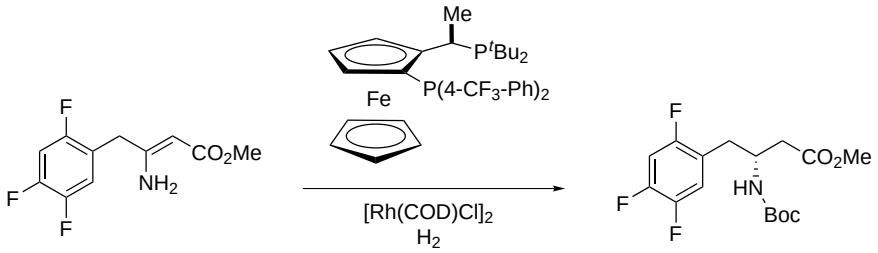
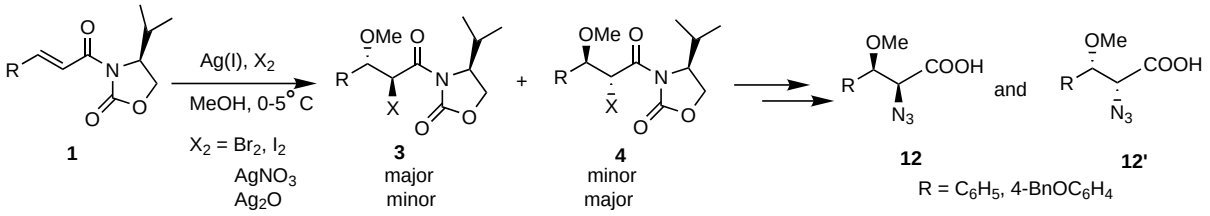
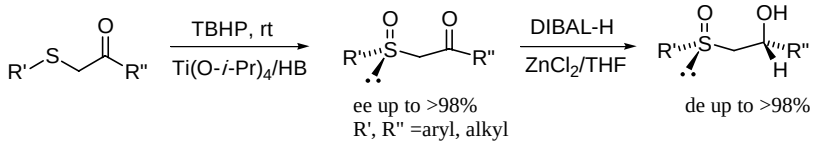
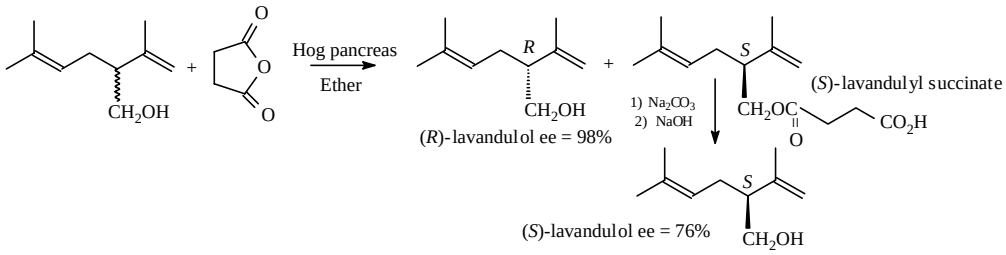
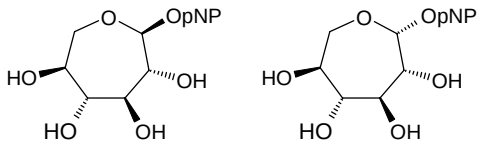


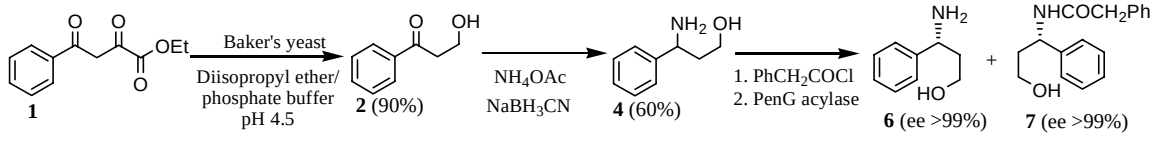


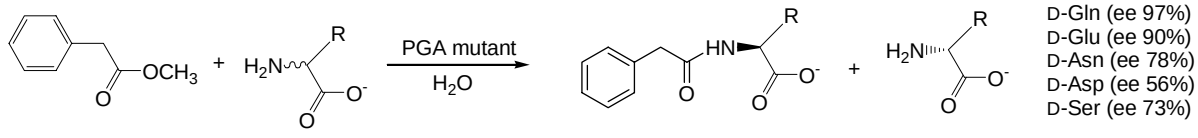


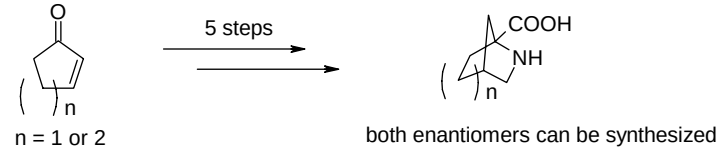


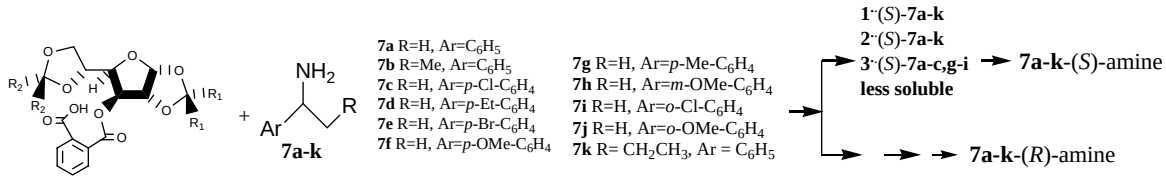




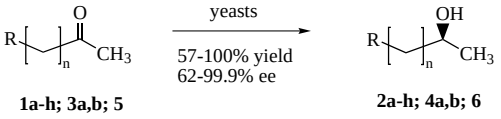




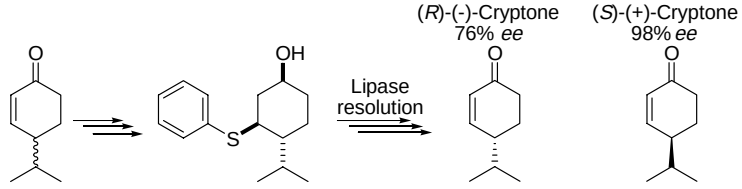


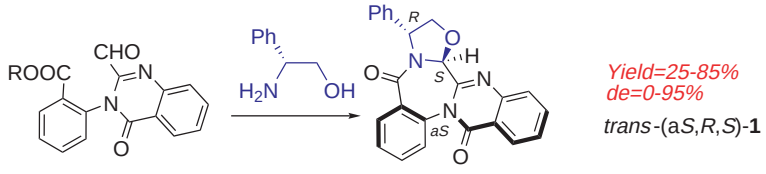


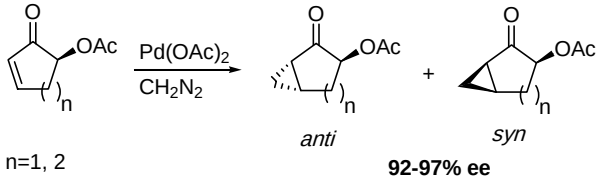
1 R_1 =R_2 = Me, **2** R_1 = R_2 = cyclohexylidene, **3** R_1 = cyclohexylidene, R_2 = Ph

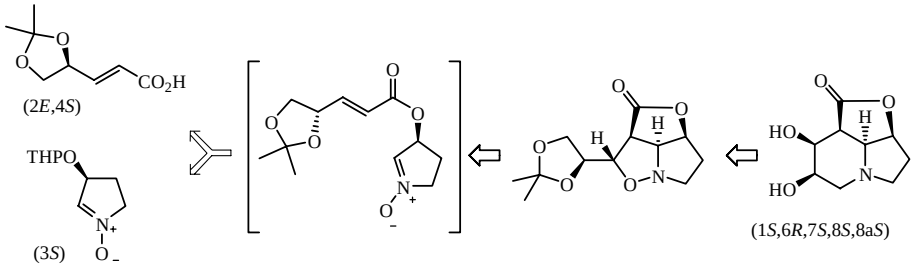


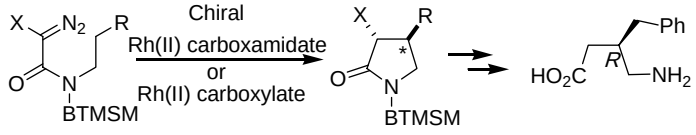
R = phenyl, substituted phenyl; n = 0, 1, 2

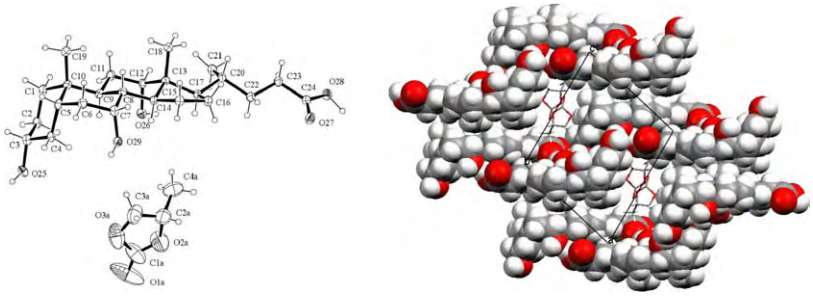












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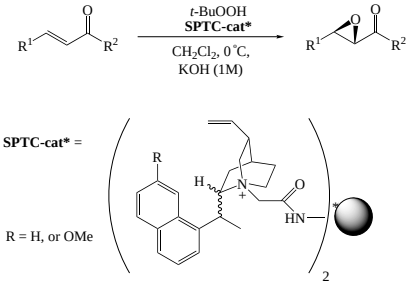

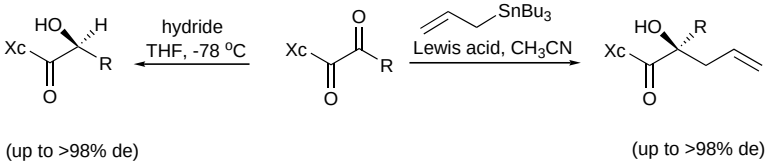

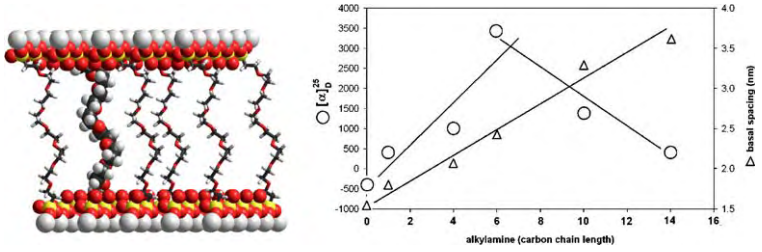

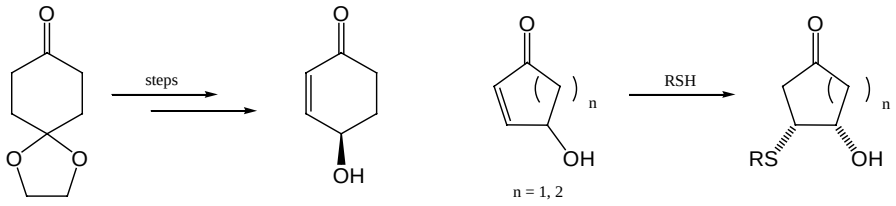

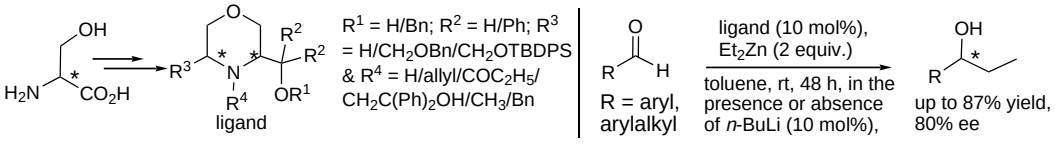

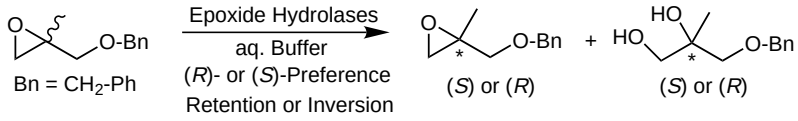

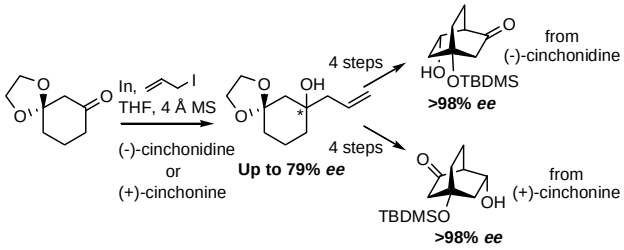

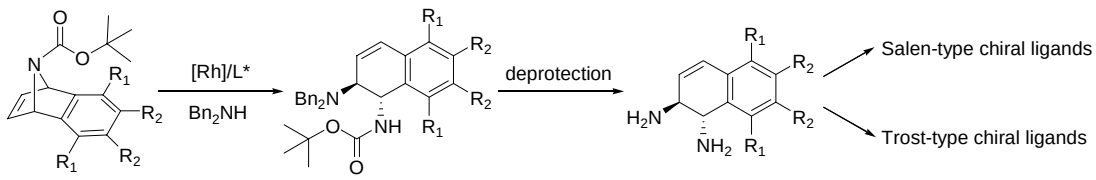

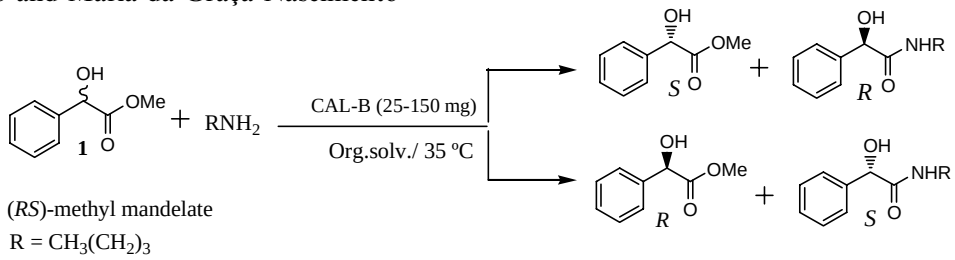

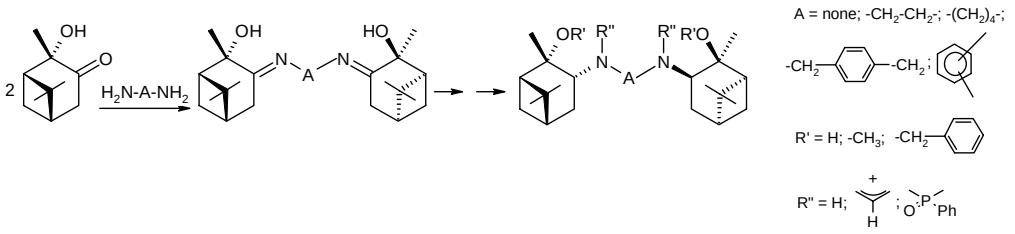

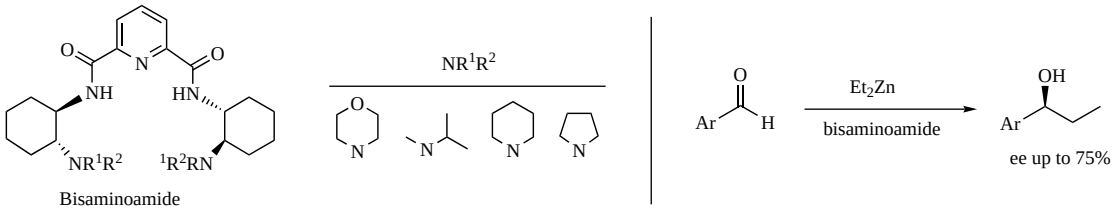

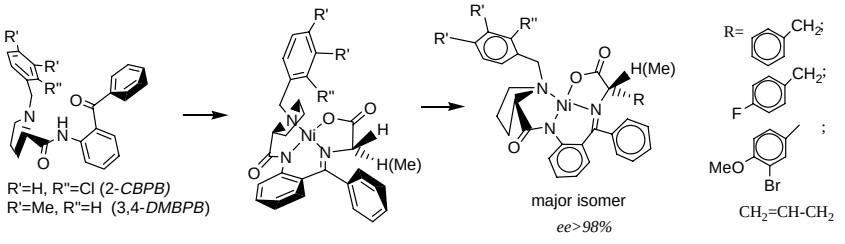

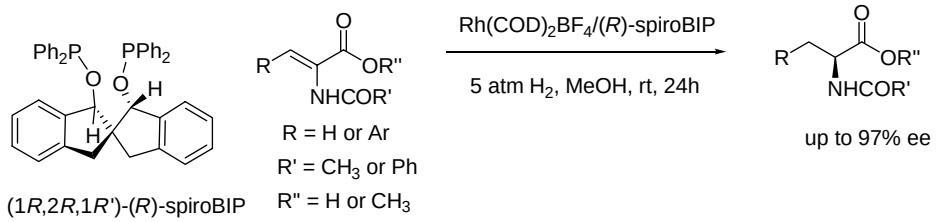

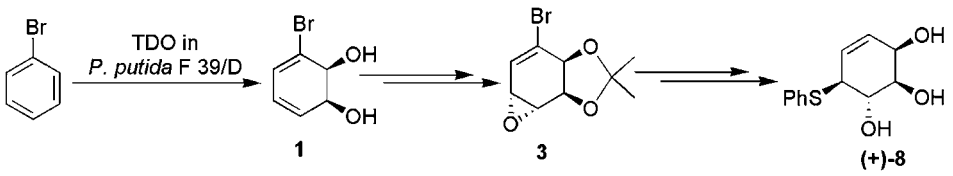

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Special Issue

Asymmetric Catalysis

Guest editors:
Albert S. C. Chan

Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong

Tamio Hayashi

Department of Chemistry, Faculty of Science, Kyoto University, Japan

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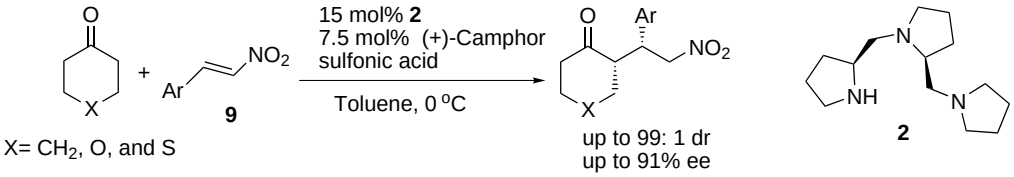

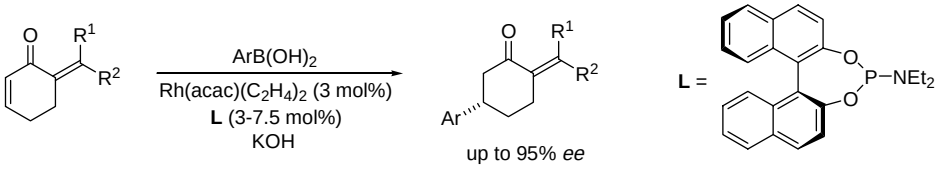

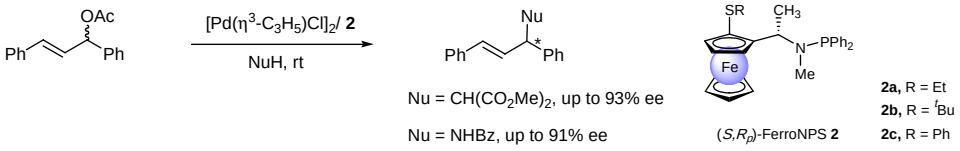

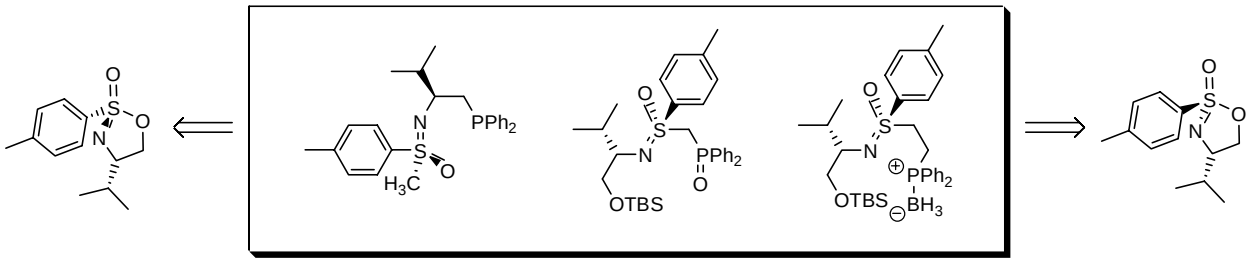

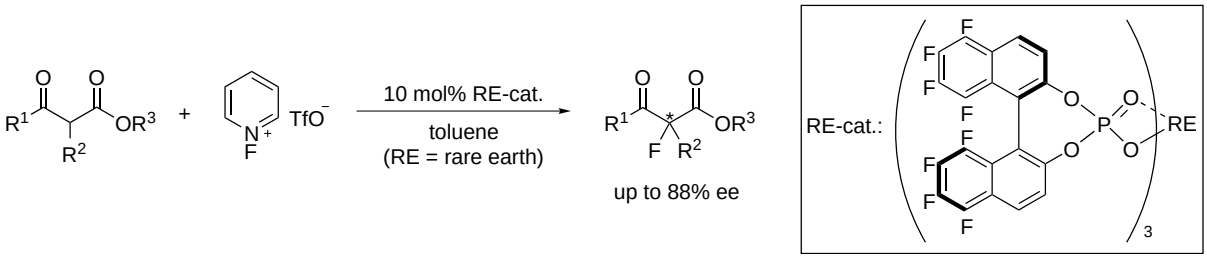

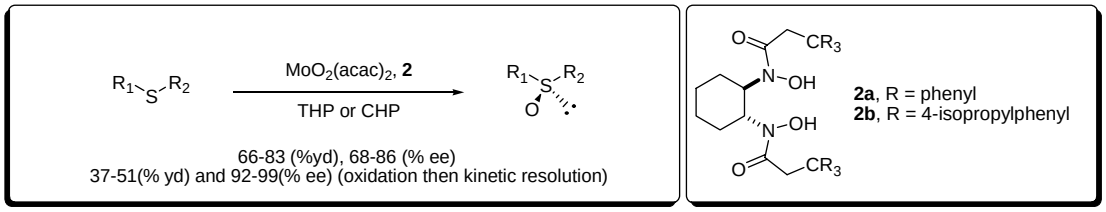

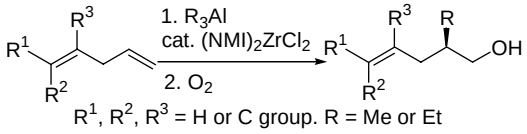

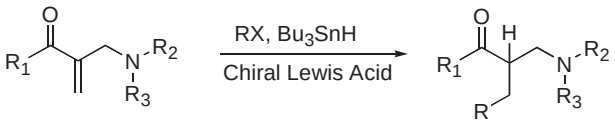

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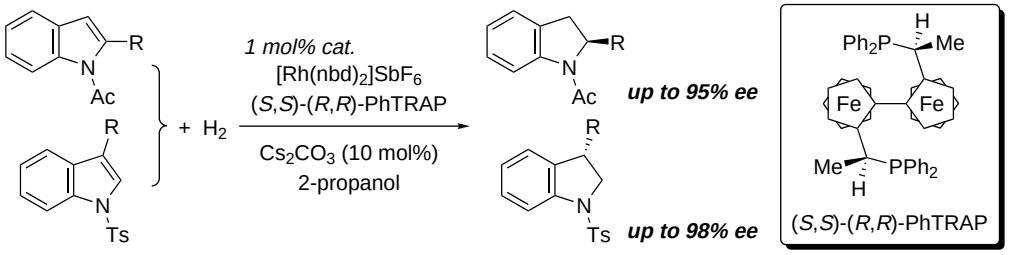
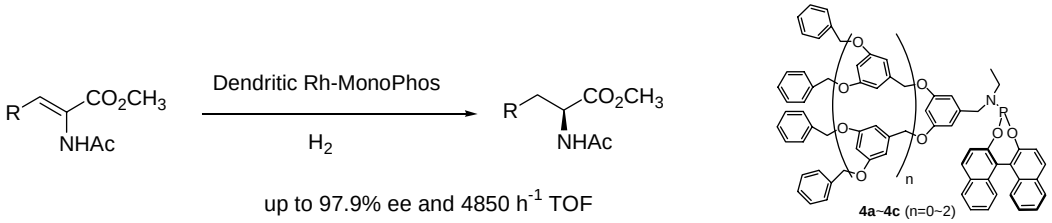
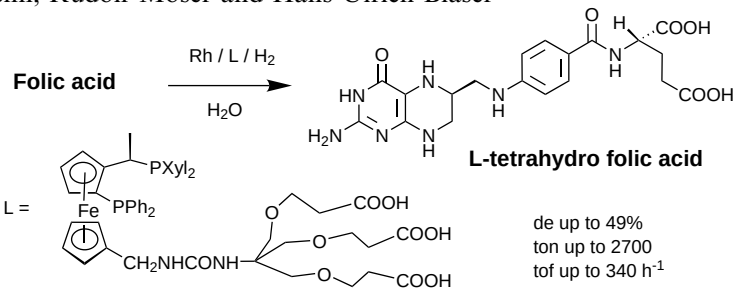
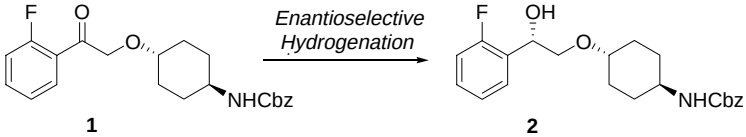
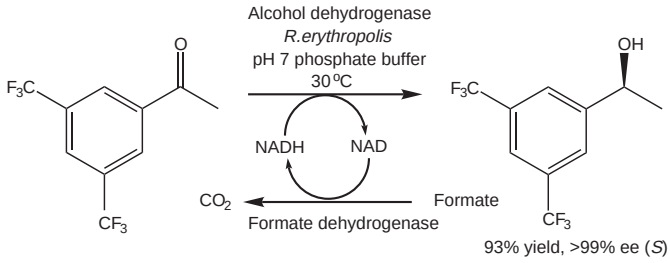


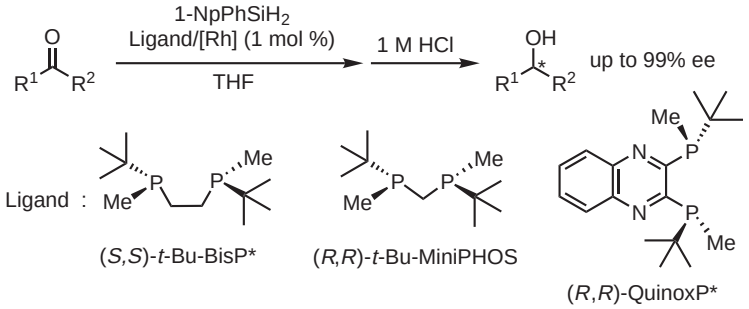


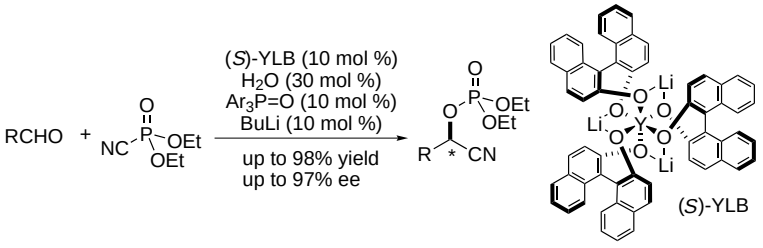


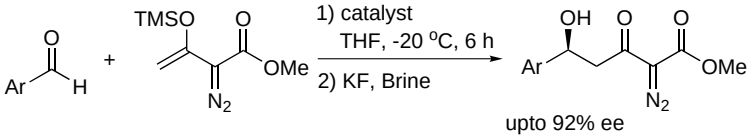


The discovery and optimization of the highly enantioselective asymmetric hydrogenation of an α-alkoxy substituted ketone is described. The use of a ruthenium (phosphinoferrocenyl)oxazoline catalyst and the appropriate choice of a solvent and a base is the key to the success of this transformation.

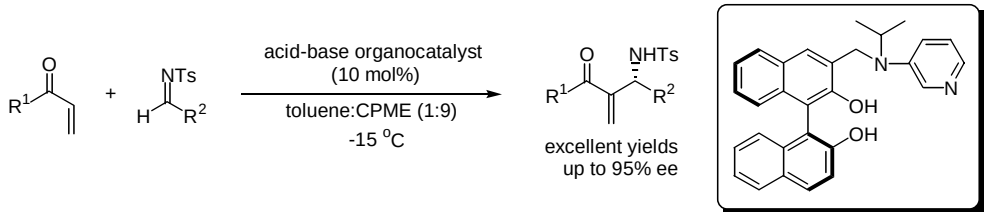


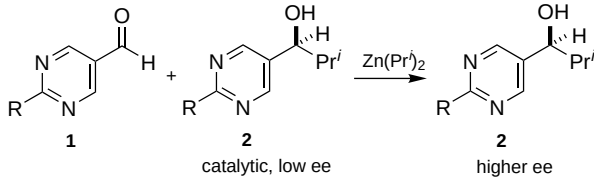


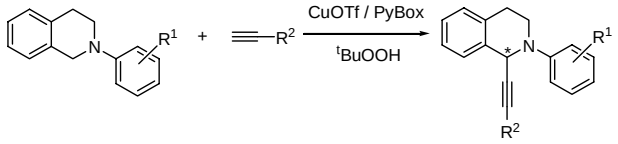


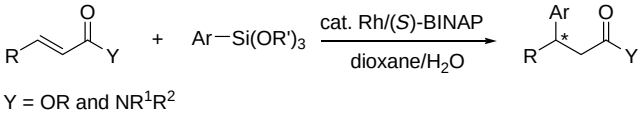


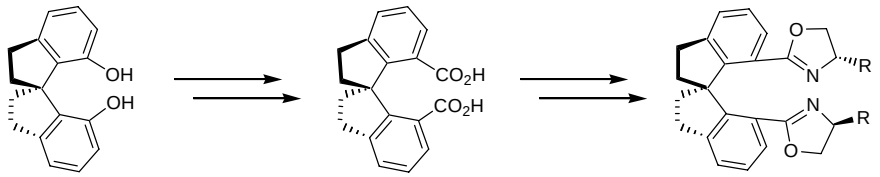
Catalyst: AgOTf (10 mol%), (*S*)-BINAP (6 mol%), KF (10 mol%), 18-crown-6 (10 mol%)

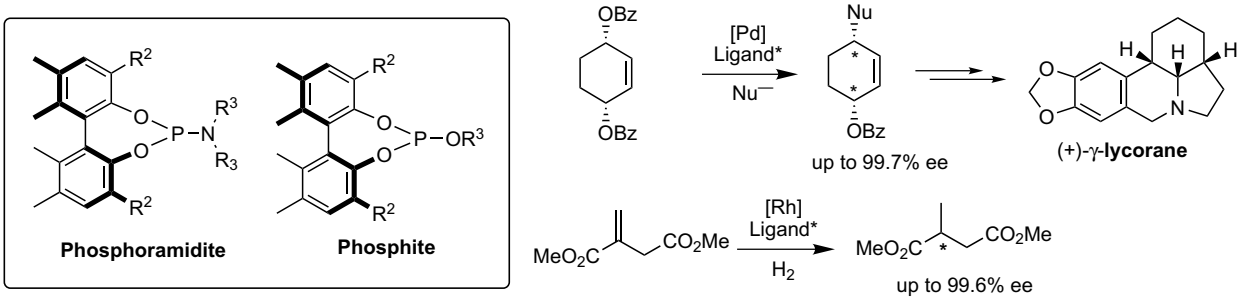


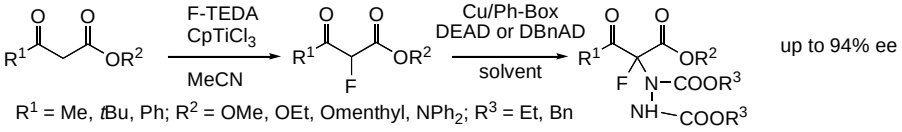


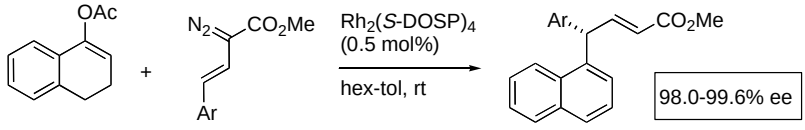


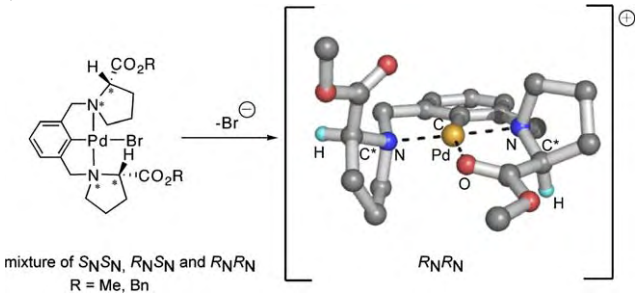


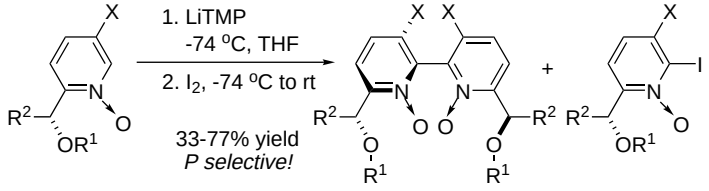


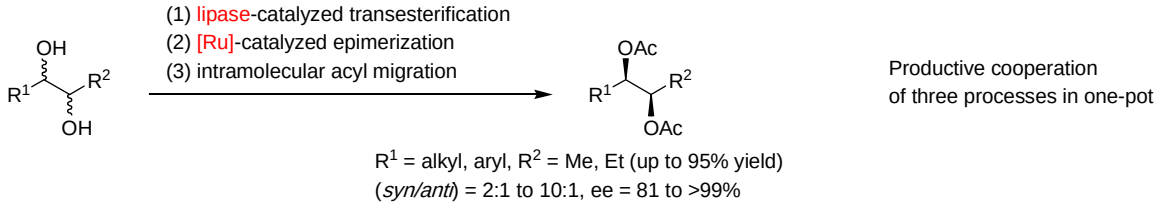


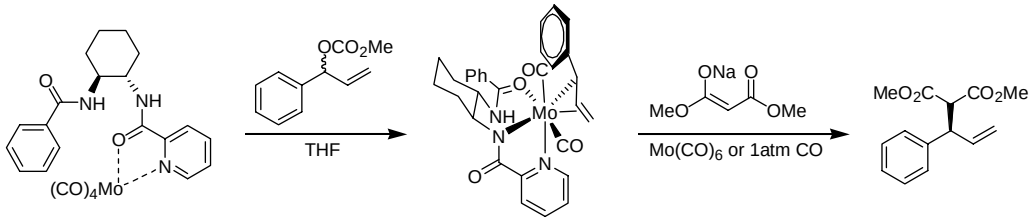












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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 5, 2006

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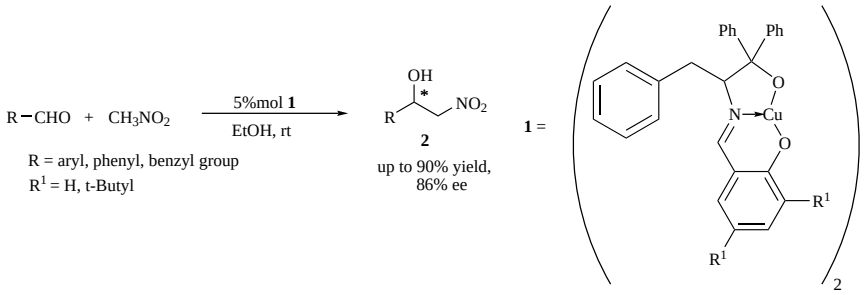

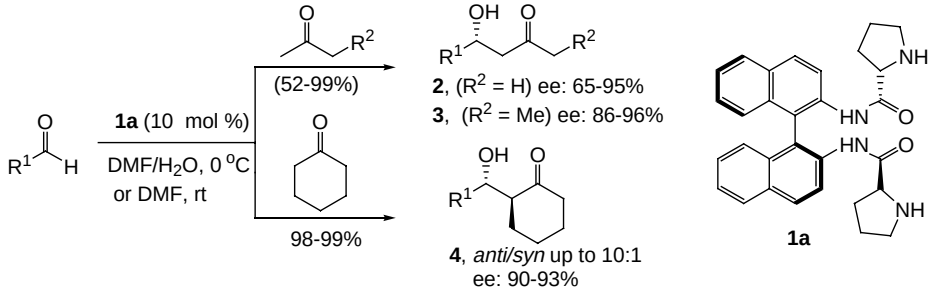

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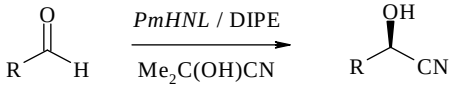
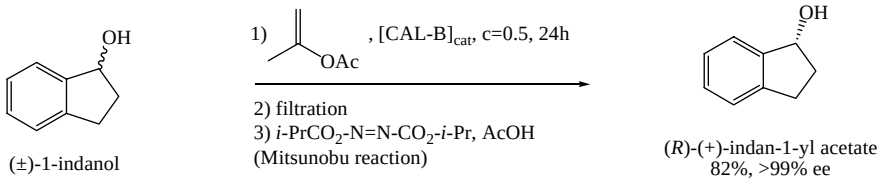


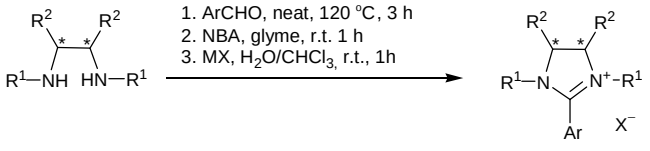
A series of saturated, unsaturated, and cyclic aliphatic aldehydes were subjected to (*R*)-HNL (*Prunus mume*) catalyzed asymmetric cyanohydrin synthesis.



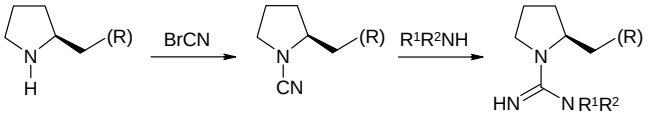
(±)-1-indanol

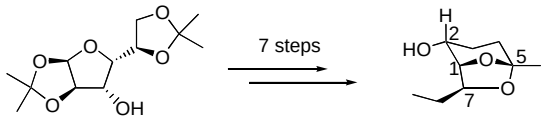
(*R*)-(+)-indan-1-yl acetate
82%, >99% ee

Seven other arylalkyl secondary alcohols were obtained as their (*R*)-acetates in 70–83% yield and 89–99% ee.

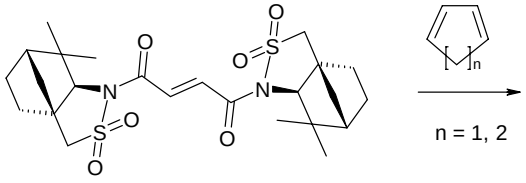


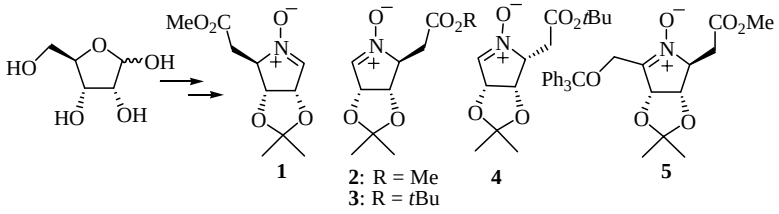
up to 95%

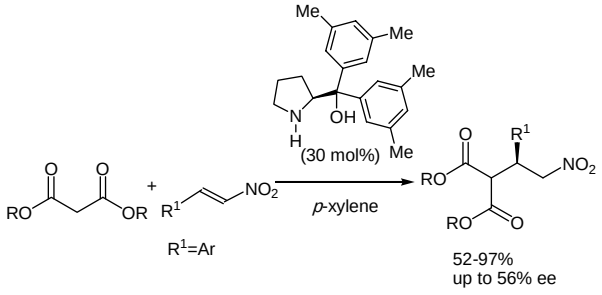


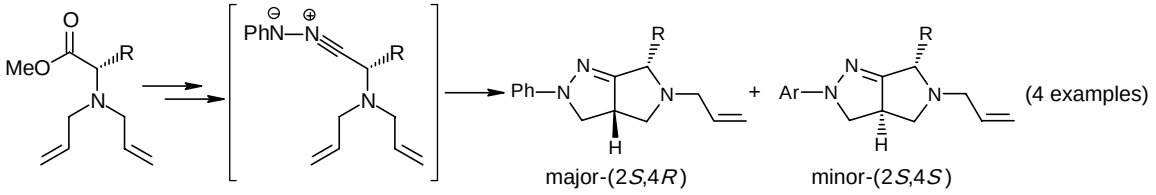


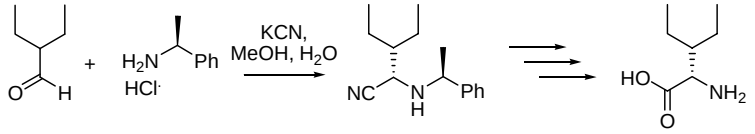
(1*S*,2*R*,5*R*,7*S*)-2-Hydroxy-*exo*-brevicomin

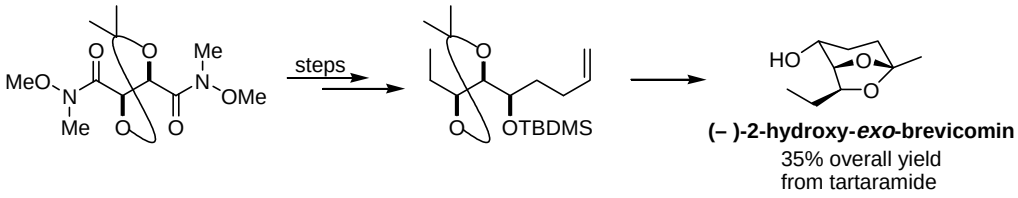


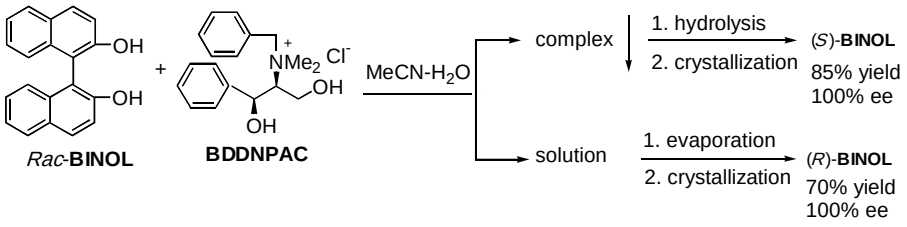


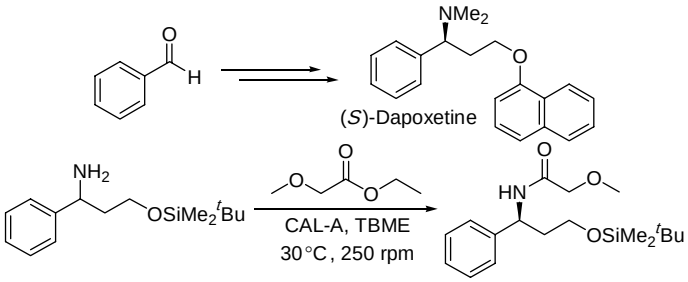












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ISSN 0957-4166

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Tetrahedron:
Asymmetry

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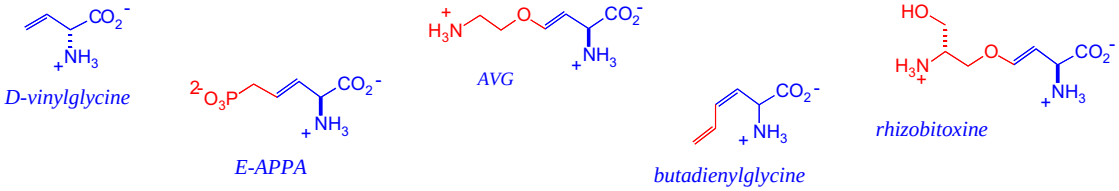

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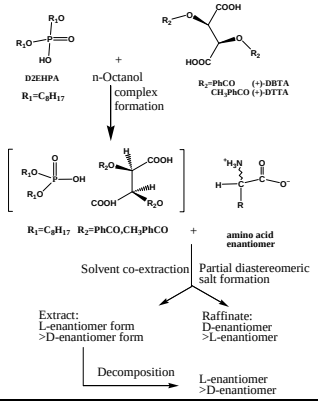
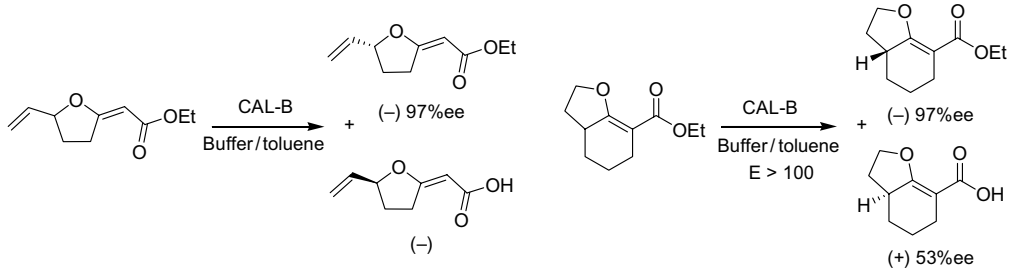
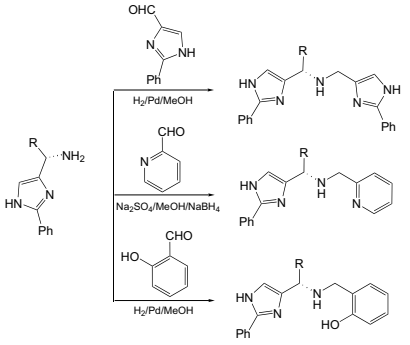
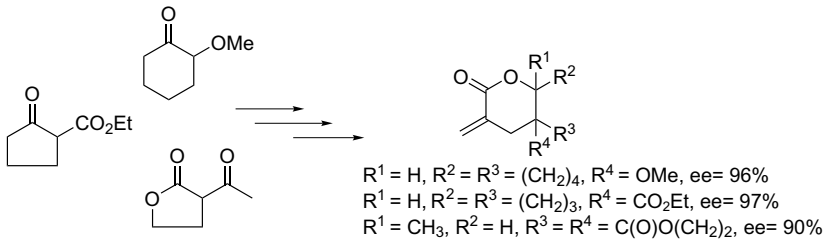
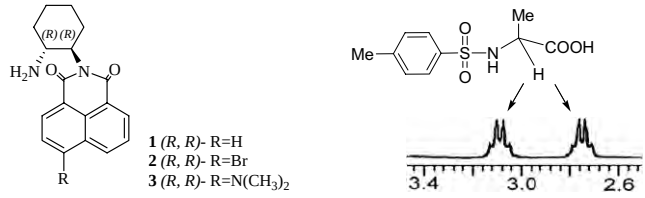


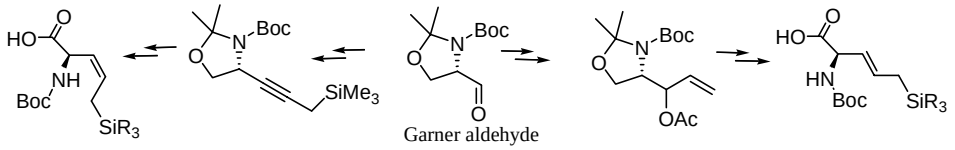


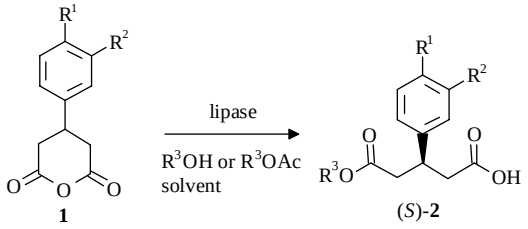


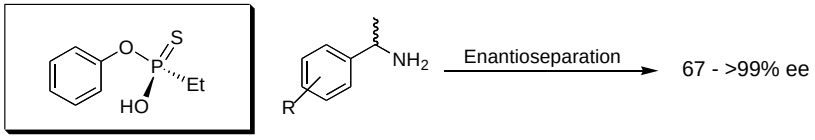




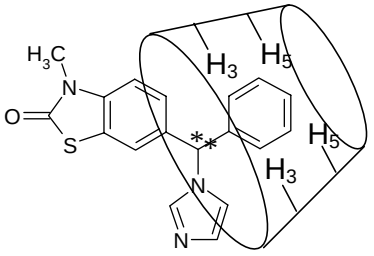
(1*R*,2*R*)-1-(1′,8′-Naphthalimide)-2-aminocyclohexane and its 4′-derivatives derived from (1*R*,2*R*)-diaminocyclohexane are efficient NMR chiral solvating agents for chiral carboxylic acids leading to large separation ($\Delta\Delta\delta$ up to 104.1 Hz) of the proton signals of the enantiomers.

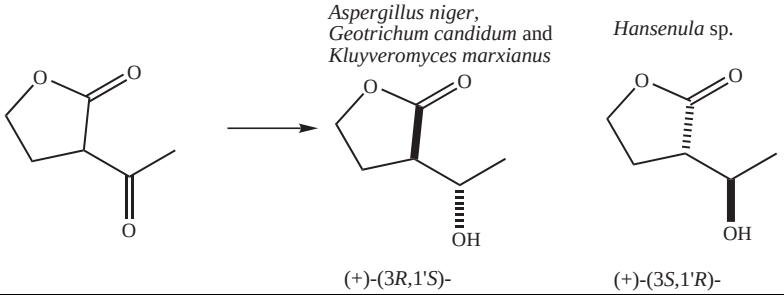


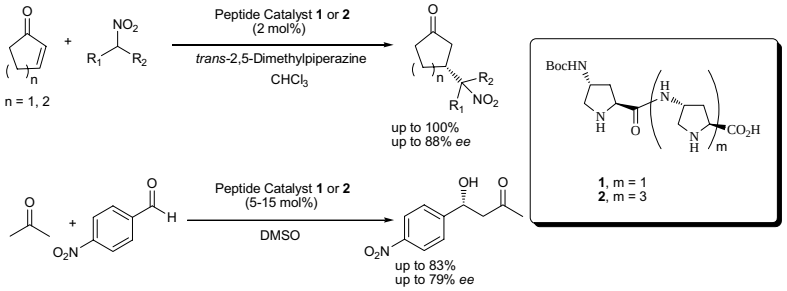


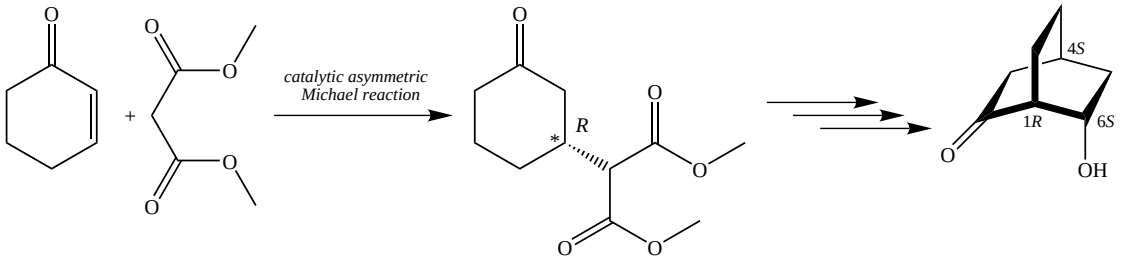


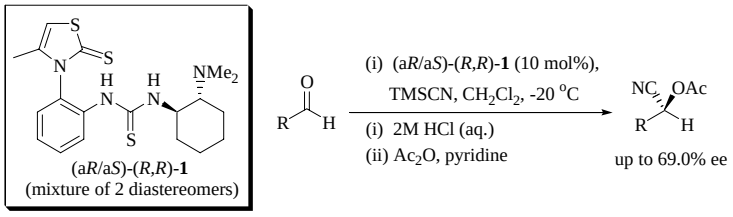
Complexation between cyclodextrins and enantiomers of *N*-imidazole derivatives: determination of the stoichiometry, of the binding constants and study of the structure complexes by 1D and 2D ^{1}H NMR.

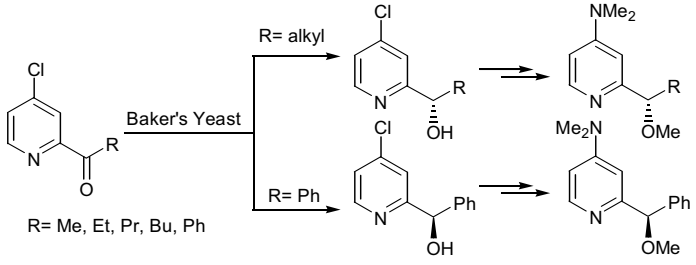


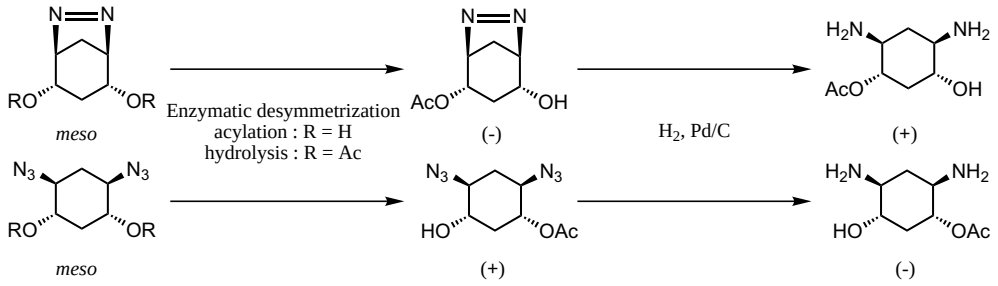












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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 7, 2006

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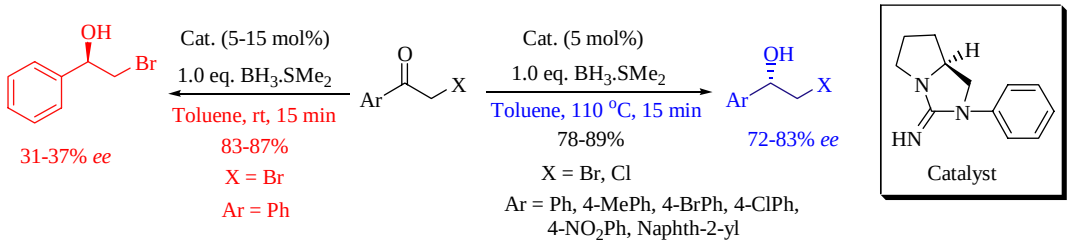
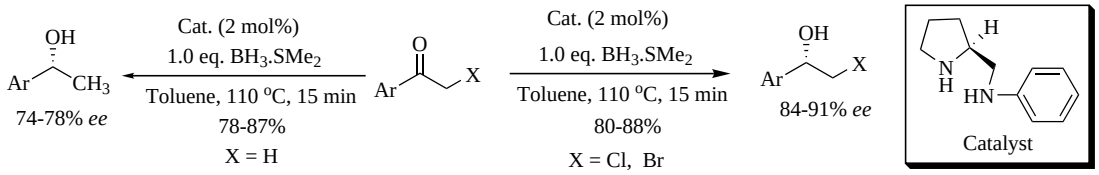
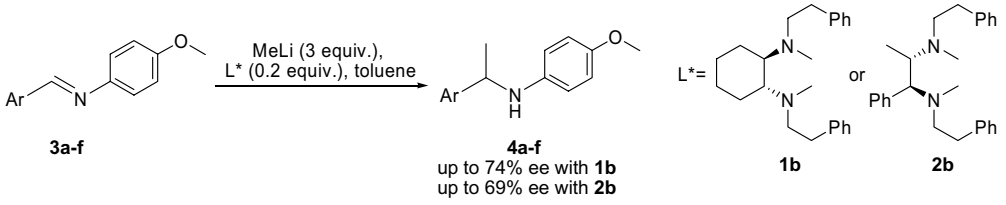


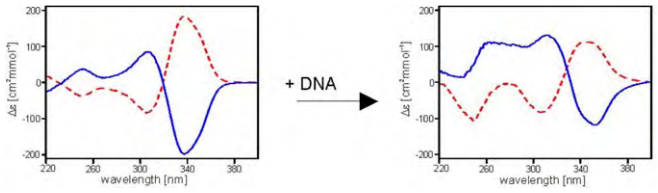


Ar = Phenyl, 4-Methylphenyl, 4-Bromophenyl, 4-Chlorophenyl, 4-Nitrophenyl

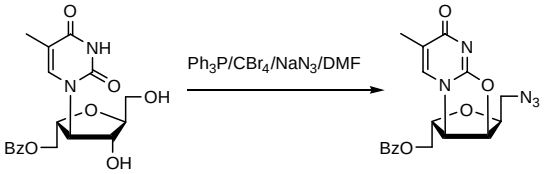


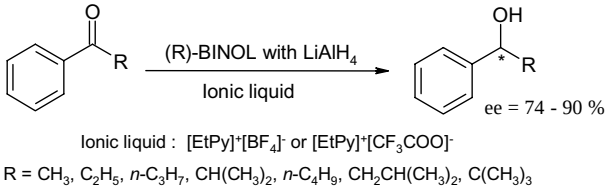
New tertiary pseudo C_2-symmetric 1,2-diamine **2b** was synthesized and compared to **1b** in the enantioselective addition of MeLi to imines **3a**–**f**. Comparable selectivity and better reactivity were observed with this novel diamine.

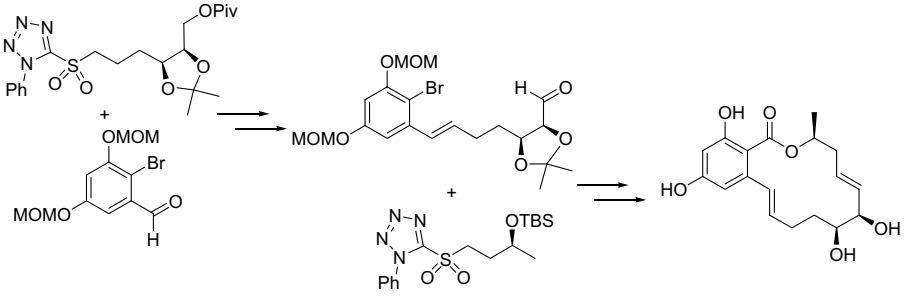
ARTICLES

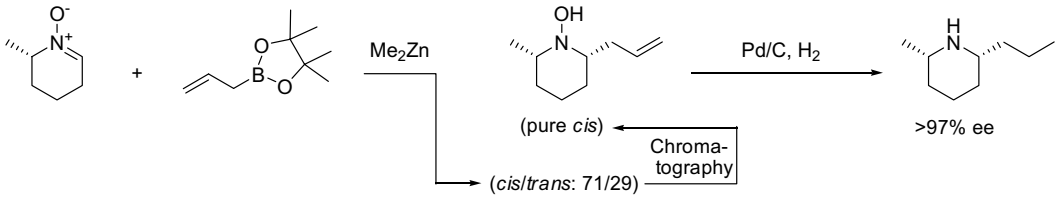


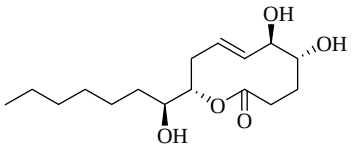
(4*R*,9*R*)- and (4*S*,9*S*)-enantiomers of bis-distamycine derivatives linked by Trögers base scaffold show mirror opposite ECD spectra. After addition of DNA the new diastereomeric complexes providing different asymmetrical ECD are formed.

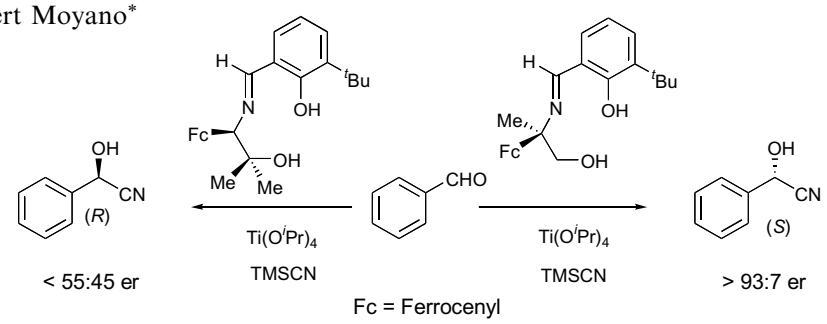


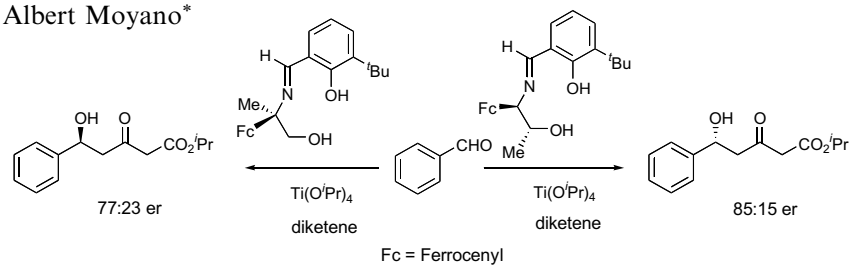


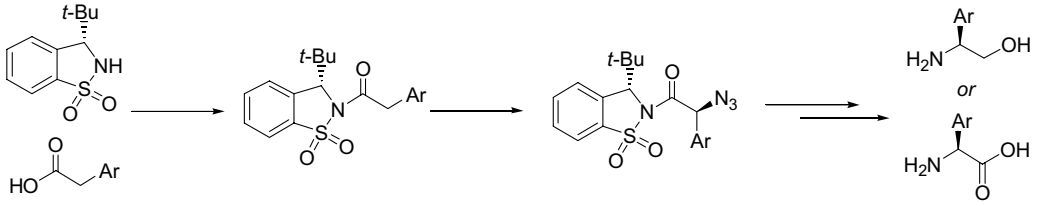


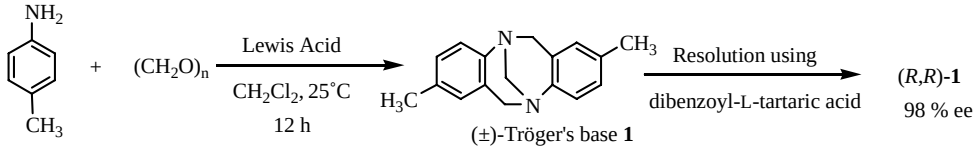


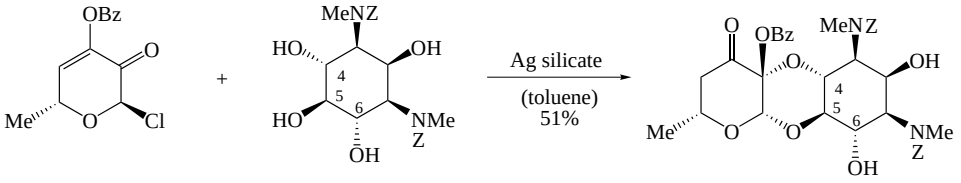


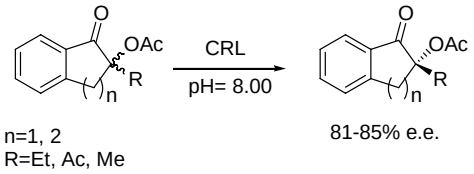


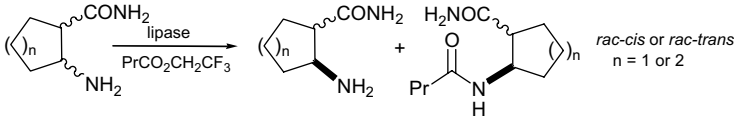












Alicyclic β-aminoamides were resolved through lipase-catalyzed asymmetric *N*-acylation at the 2*R* stereocentre.

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Tetrahedron:
Asymmetry

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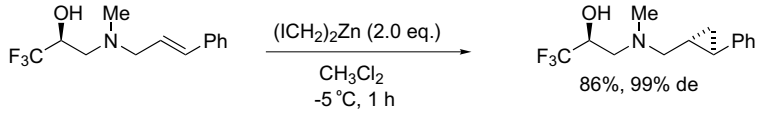

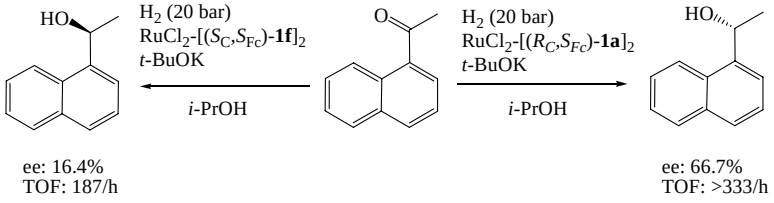

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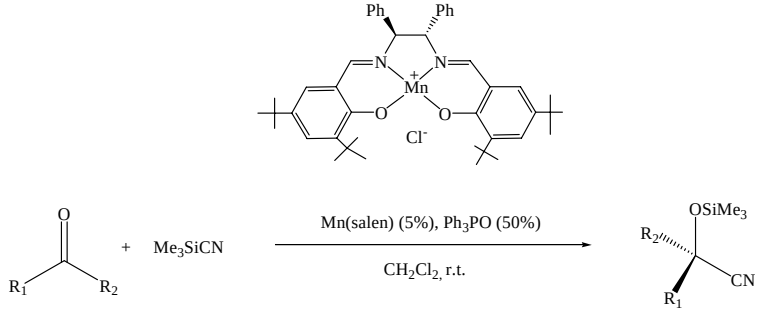
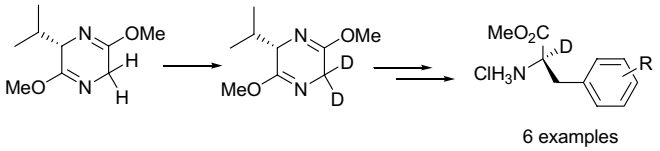
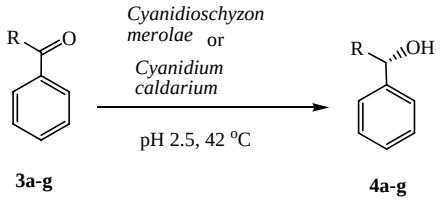
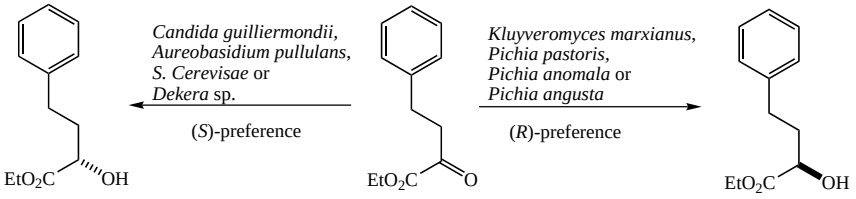
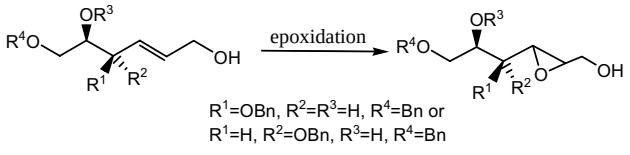
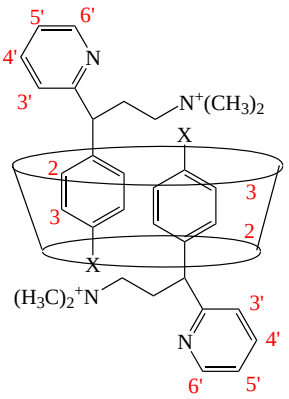


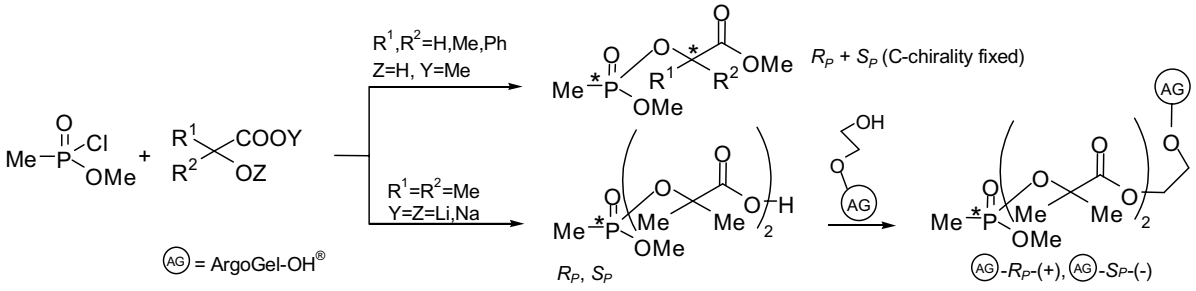


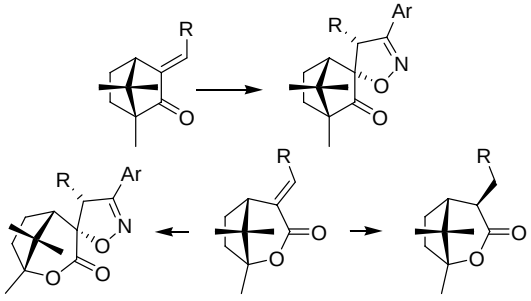


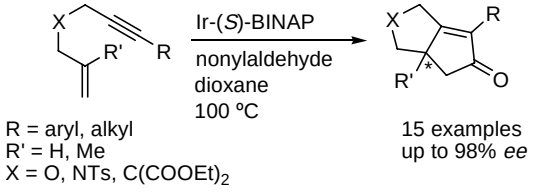


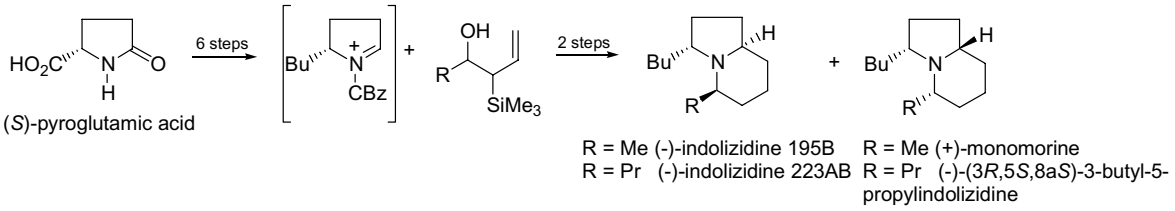


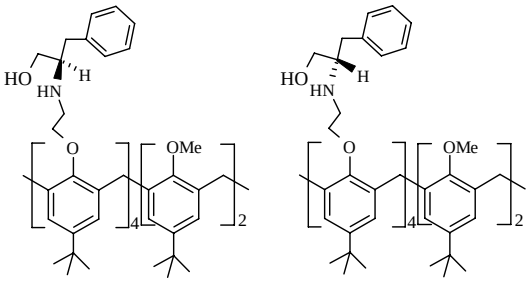


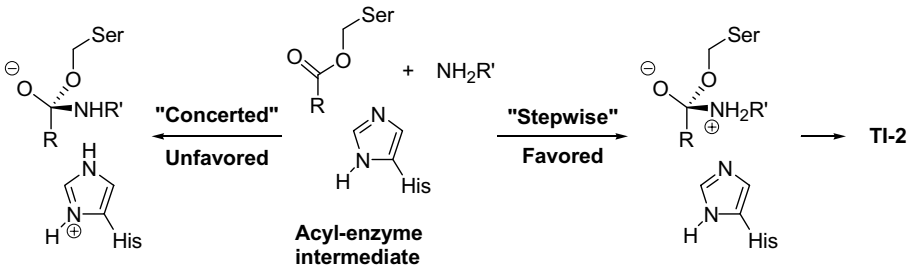


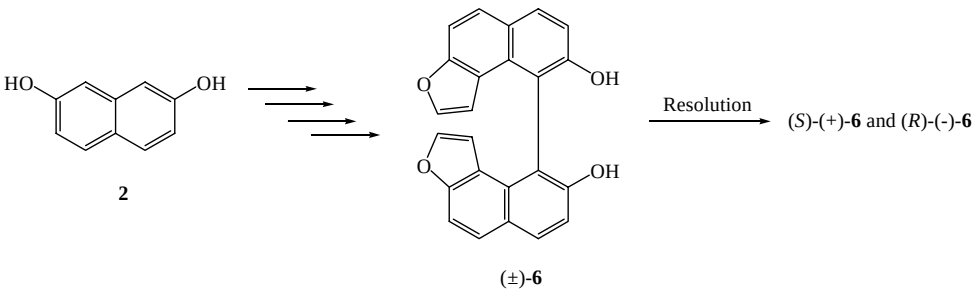


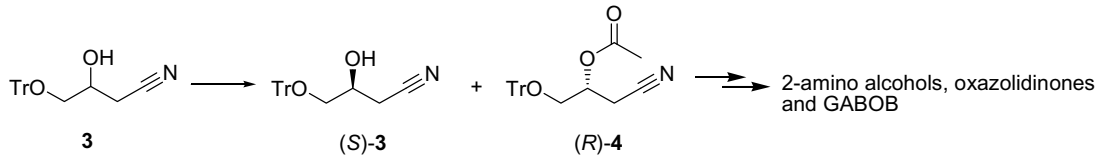


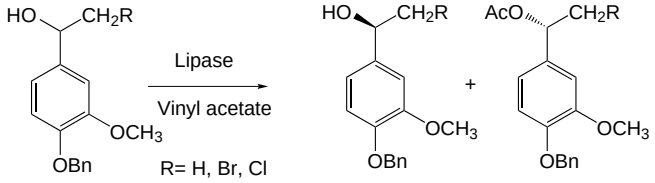


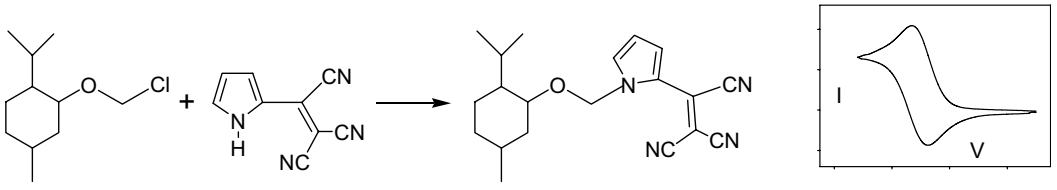




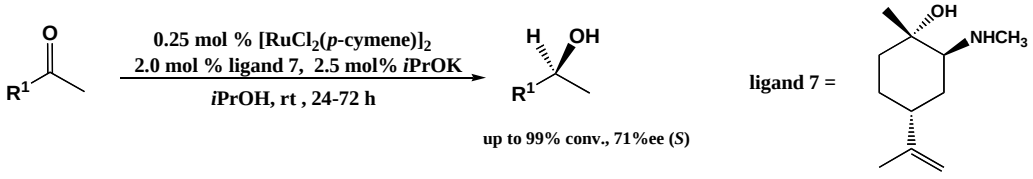


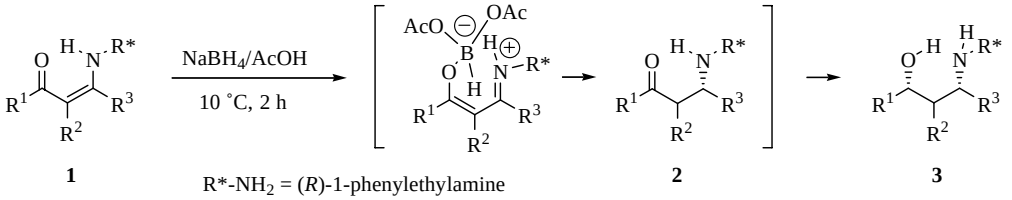






The product is both homochiral and electroactive showing a quasi-reversible cyclic voltammetry.





1 **2** **3**

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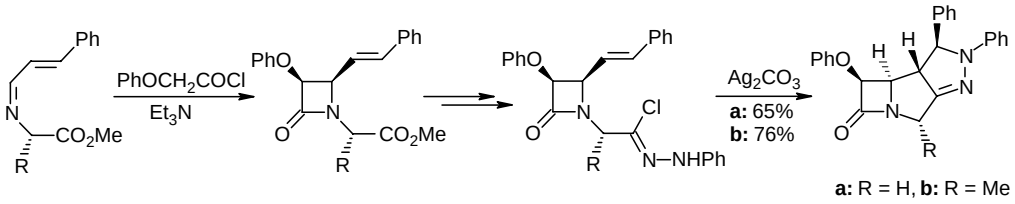

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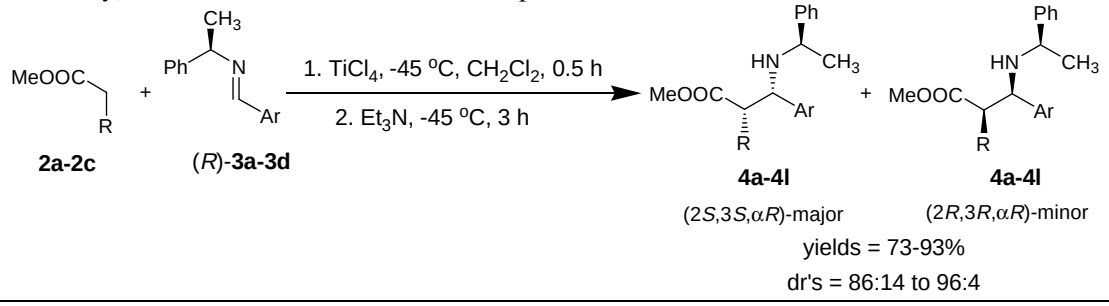
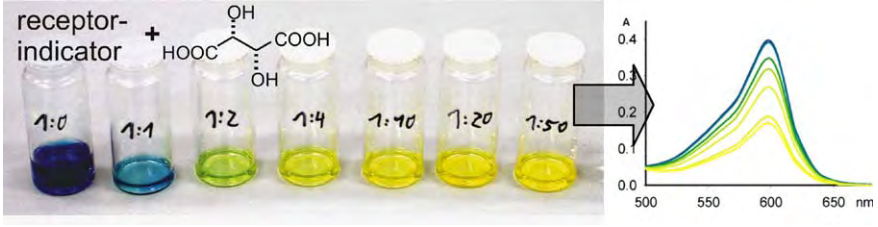
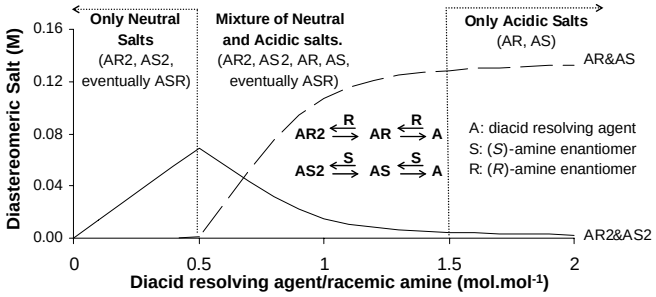
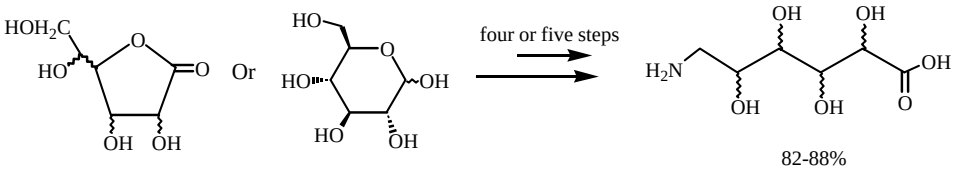
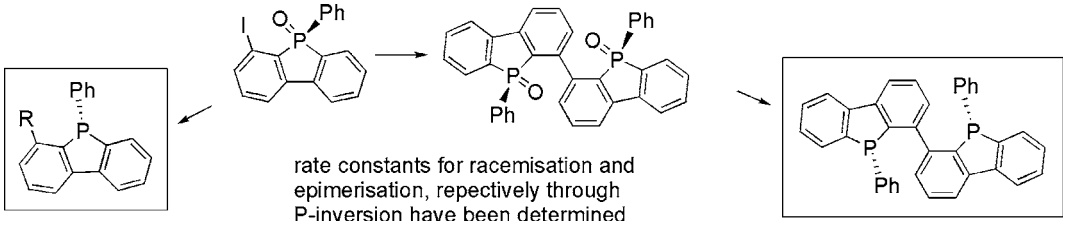
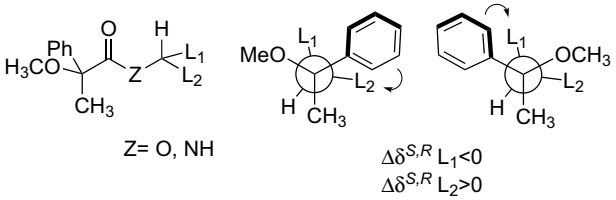


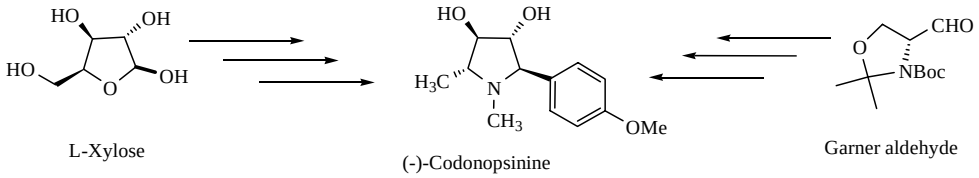


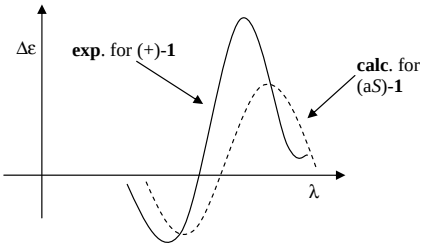




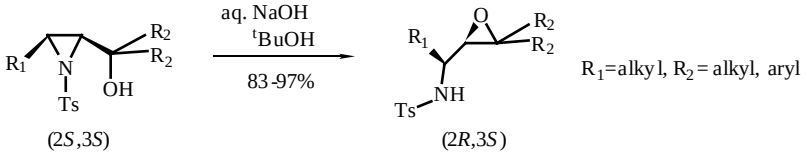


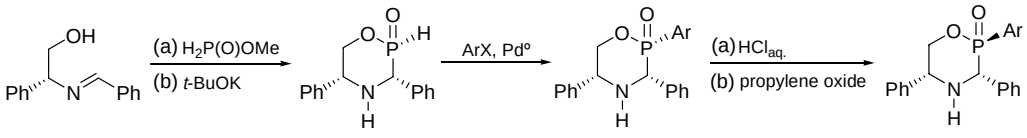


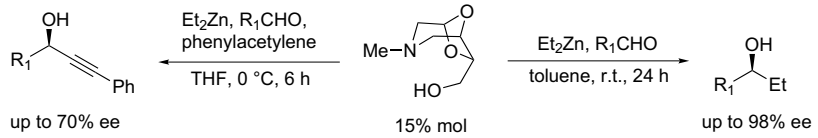


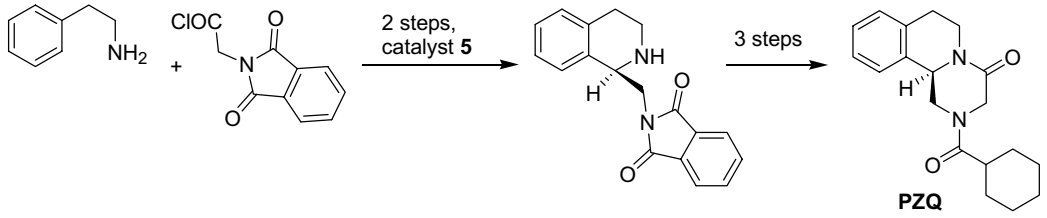


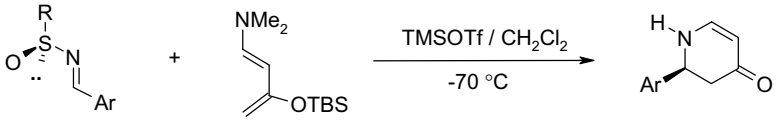
Compound (+)-**1** has an (a*S*)-absolute configuration.

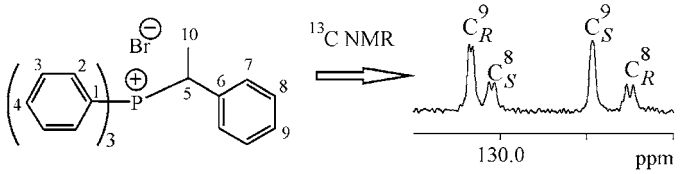




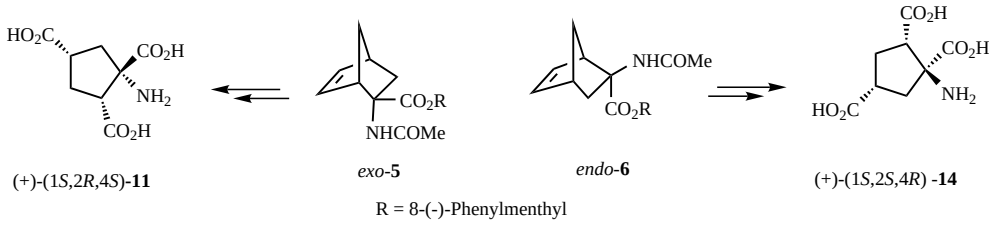


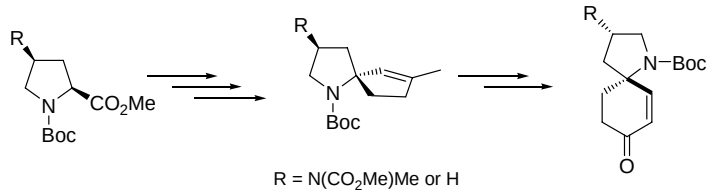


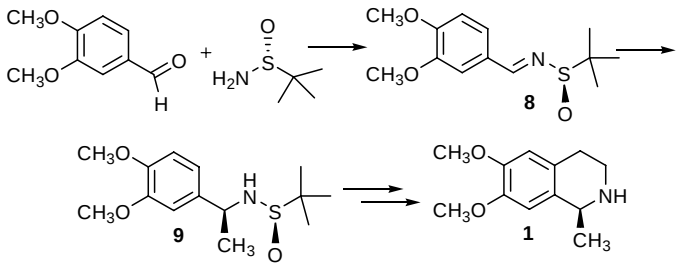


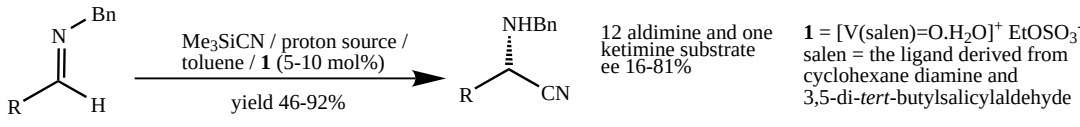


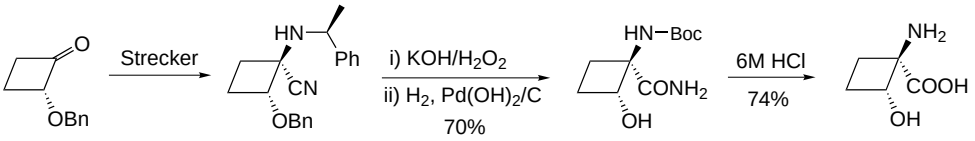
Enantiodifferentiation of acyclic phosphonium salts was investigated by ^{2}H–{^{1}H} and ^{13}C–{^{1}H} NMR in commercially available chiral liquid crystals. Good to excellent separations allow the determination of ee.











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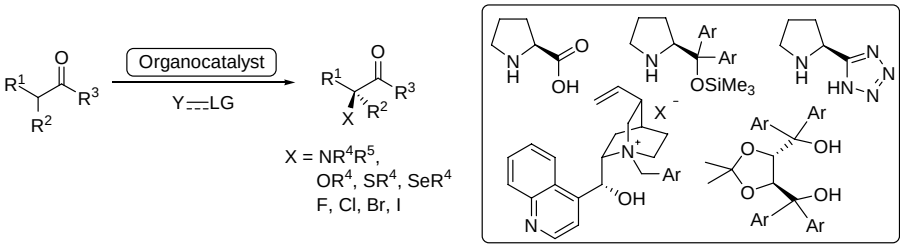

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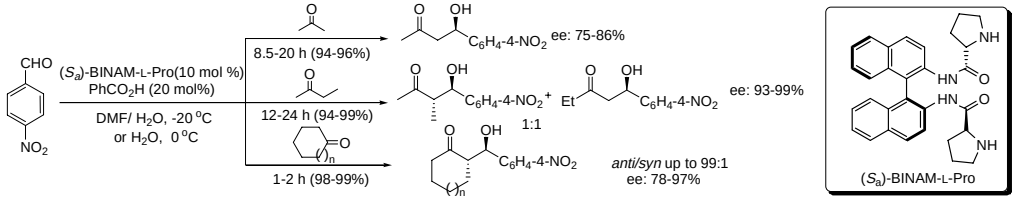

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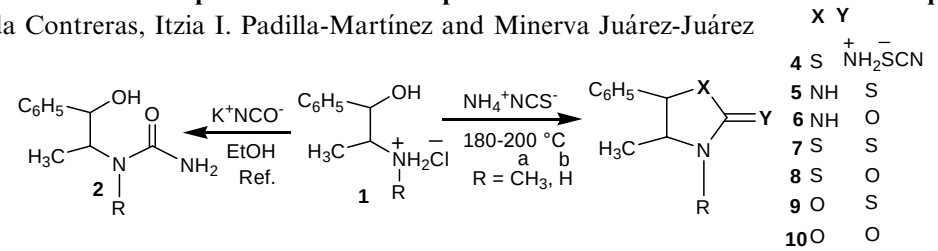
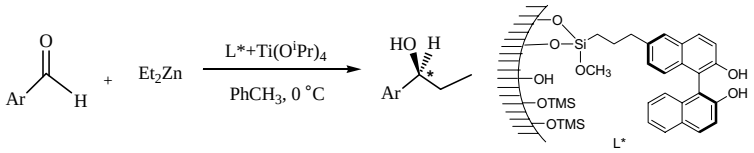
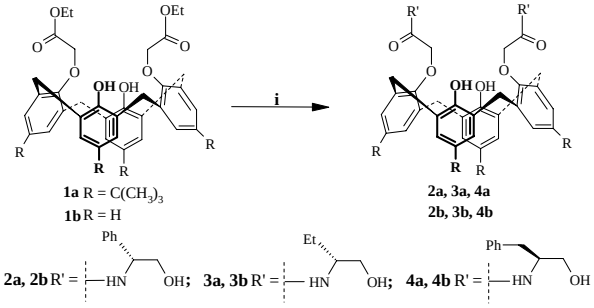
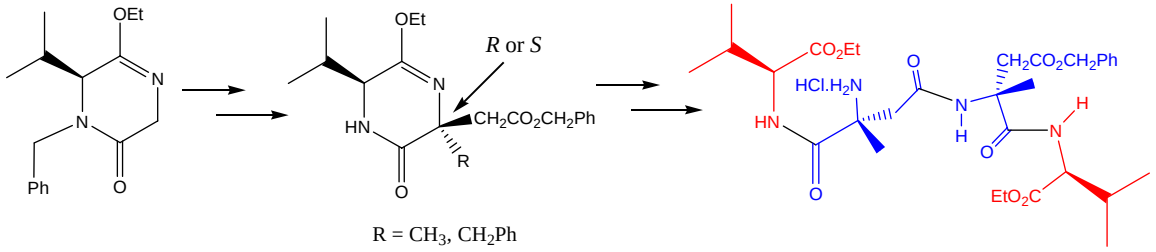
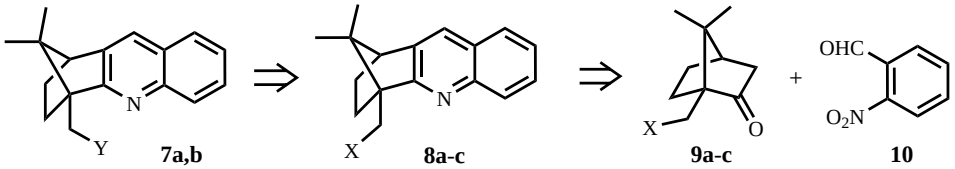


Ephedrines **1a**,**b**-(*e*,*t*) with potassium cyanate in refluxing ethanol, produce ephedrineureas **2a**,**b**-(*e*,*t*). When ephedrines **1a**,**b**-(*e*,*t*) are heated with ammonium thiocyanate under solvent free conditions, they produce thiazolidine-2-imine hydrothiocyanate **4a**-*t*, imidazolidinethione **5a**-*c*, thiazolidinone **8b**-*t* and thiazolidine-2-amine hydrothiocyanate **4b**-*c* in 40–50% yield.

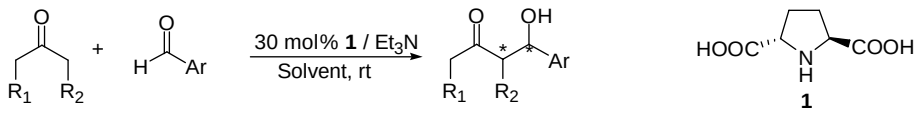






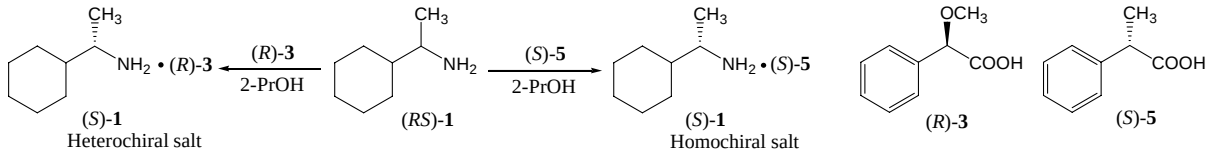


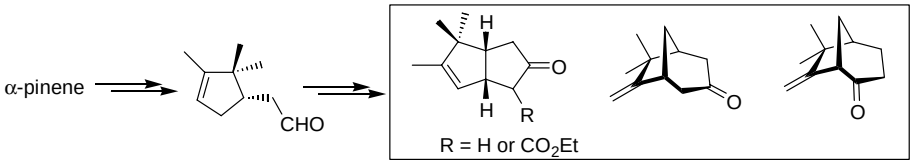
a: X= OH, **b**: X= Br, **c**: X= I



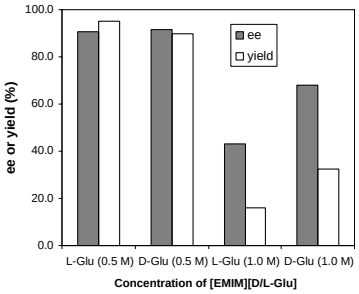
$R_1 = R_2 = H$; $R_1 = H$, $R_2 = OH$
$R_1R_2 = (CH_2)_3$

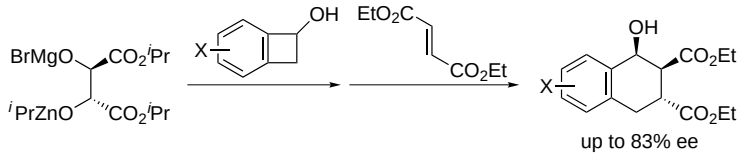
40-99% yield
up to 90% ee

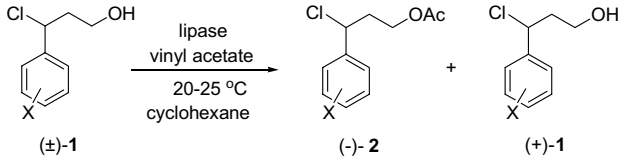


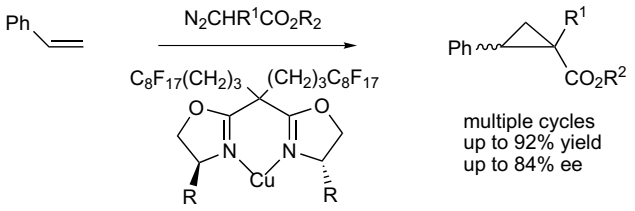


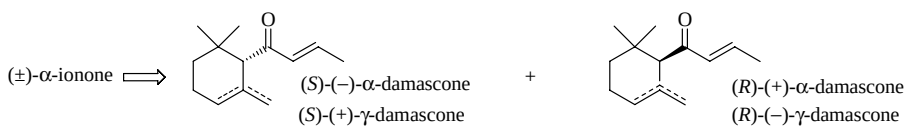
Novel ionic liquids (ILs) carrying anions of chiral- or ω-amino acids were prepared. Interestingly, higher ees and yields were generally observed in ILs based on D-amino acids rather than in those derived from L-amino acids, especially when these ILs were used in a higher concentration.

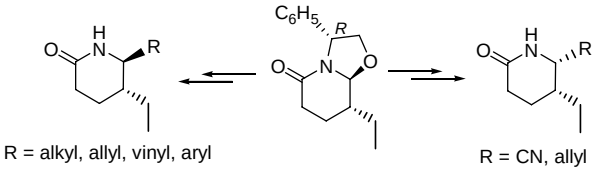


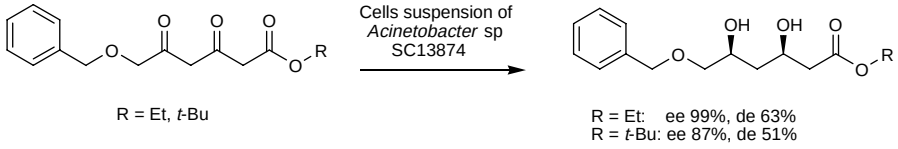


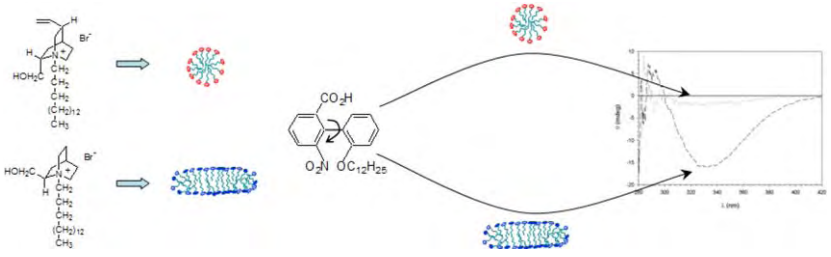












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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 11, 2006

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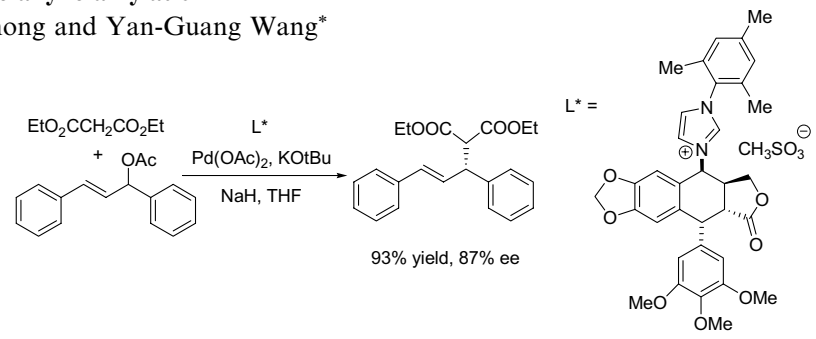
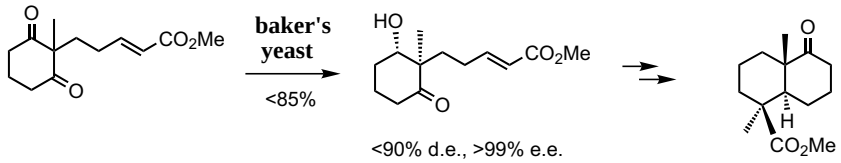
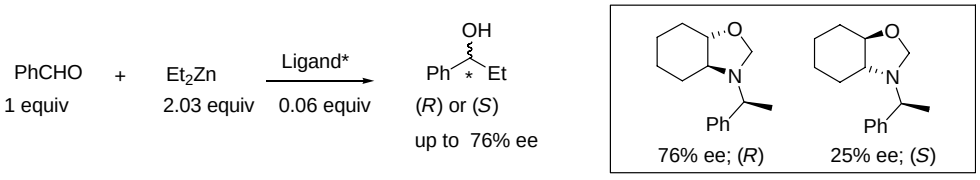
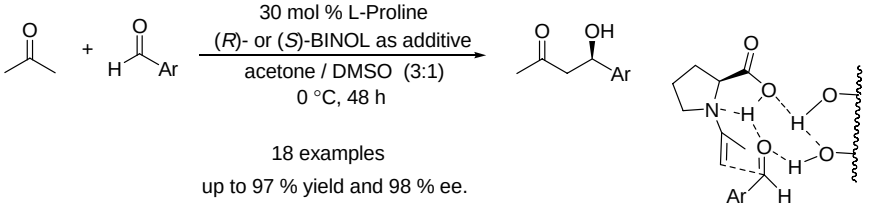
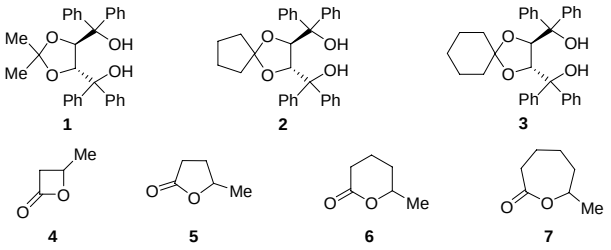
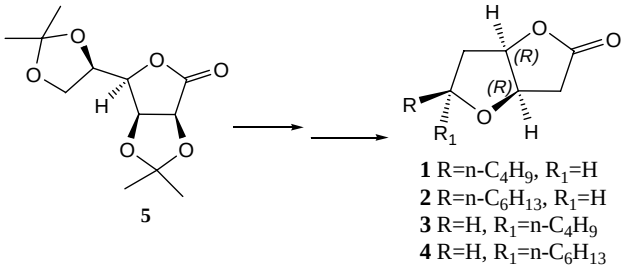


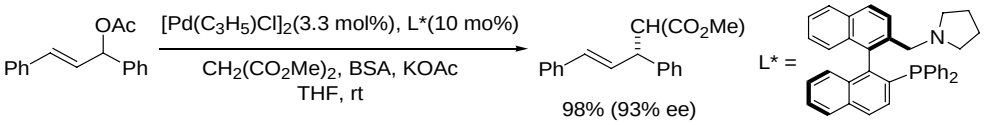


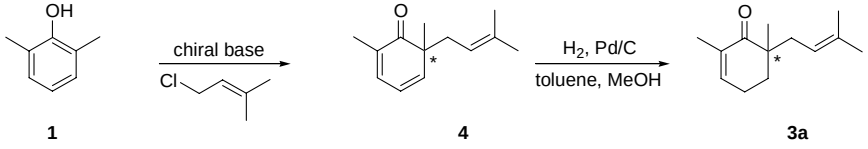


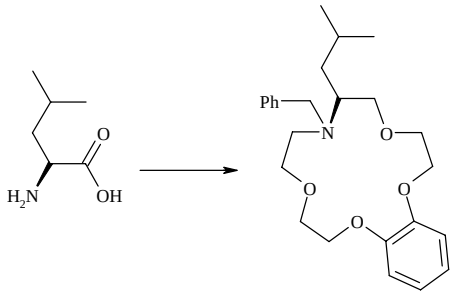


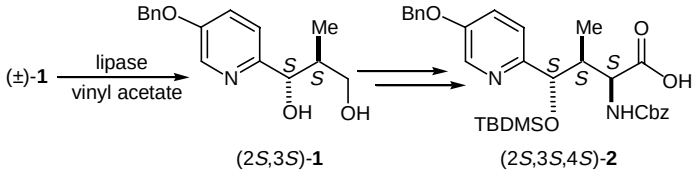


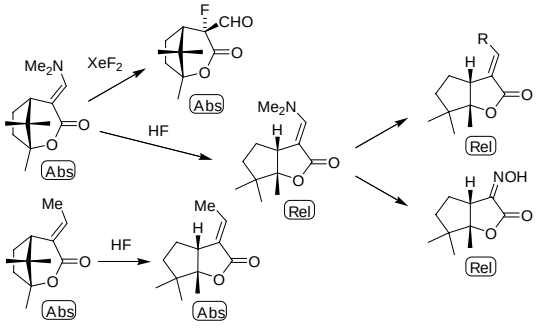


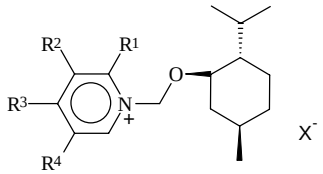






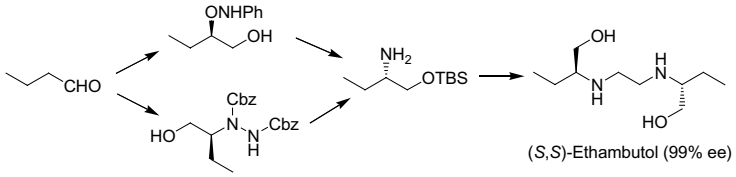


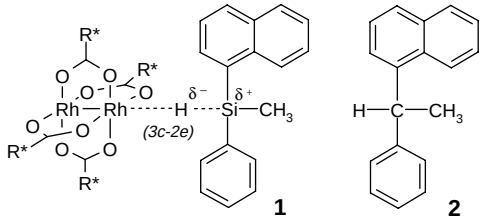


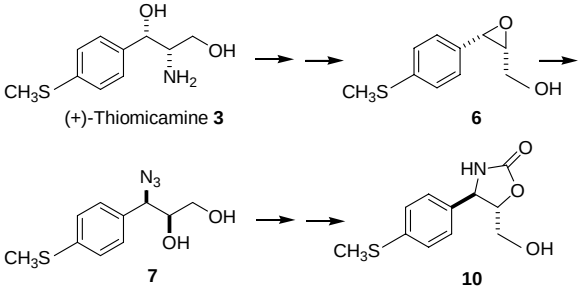


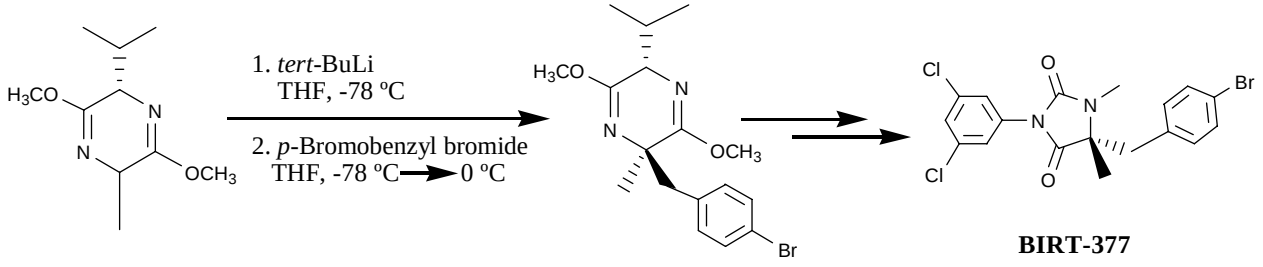
X = Cl, BF_4, ClO_4, I, PF_6, NTf_2
1-[(1*R*,2*S*,5*R*)-(–)-Menthoxymethyl]pyridinum salts

A novel class of chiral pyridinium salts in which the chirality resided in the cation have been prepared and characterized. The physicochemical and anti-microbial properties have been determined. The group of prepared salts contained chiral ionic liquids and decomposable chiral pyridinium chlorides.









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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 12, 2006

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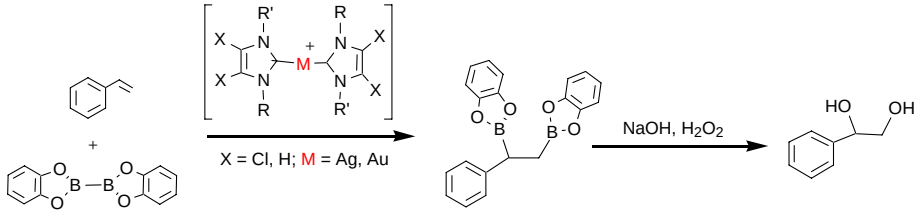

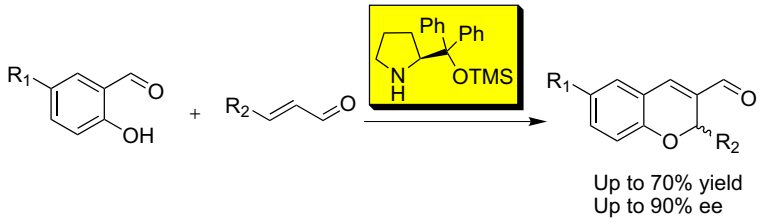

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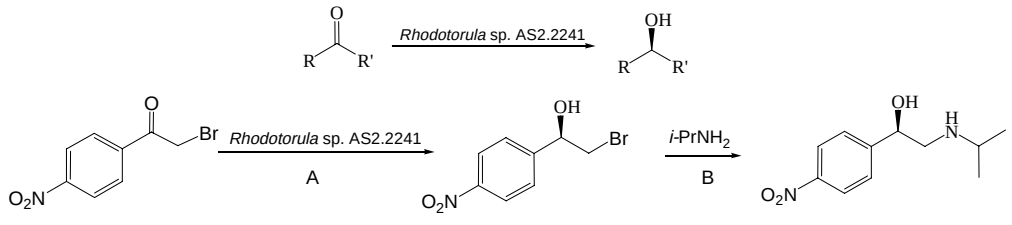
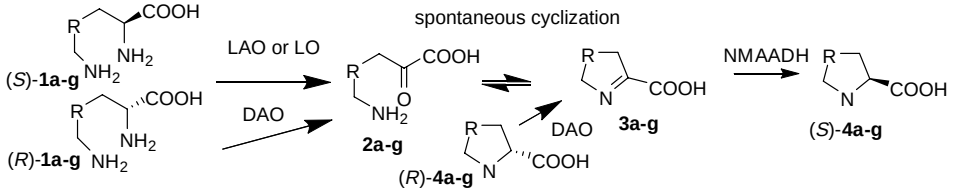
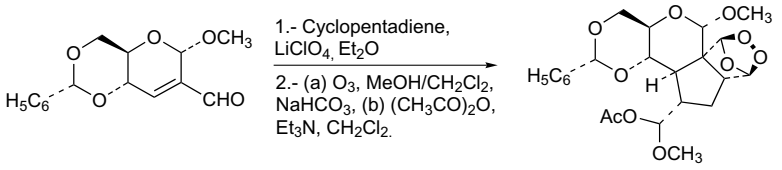
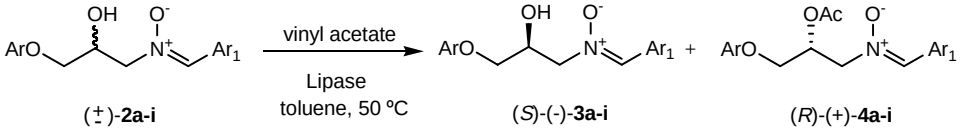
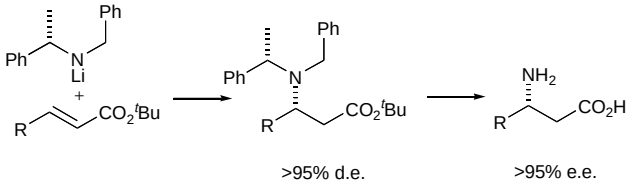


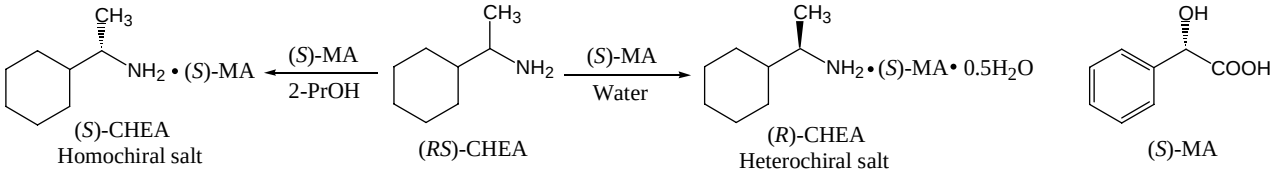


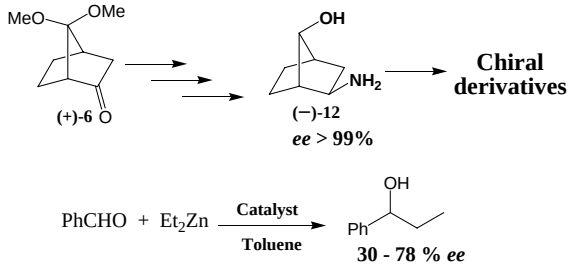


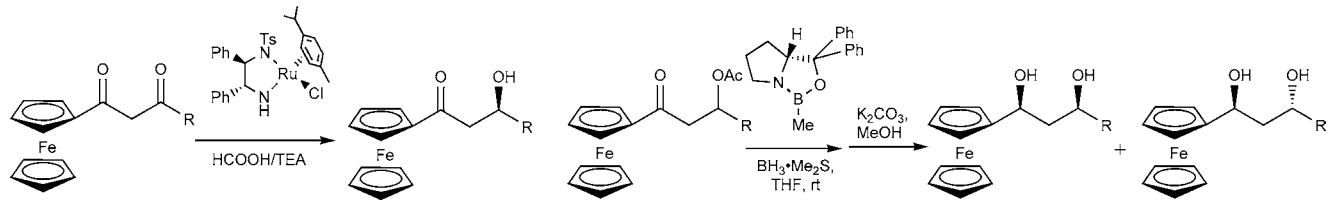


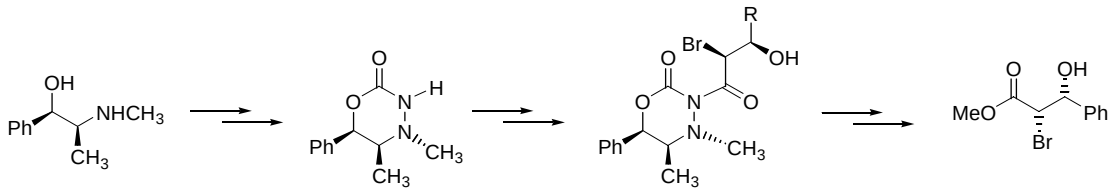


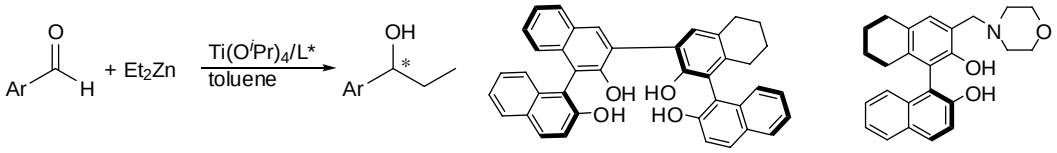
Secondary homochiral lithium amides derived from α-methylbenzylamine undergo highly diastereoselective conjugate additions to a range of α,β-unsaturated esters (>95% de), with the corresponding β-amino acids (>95% ee) readily prepared by successive N-debenzylation and ester hydrolysis.



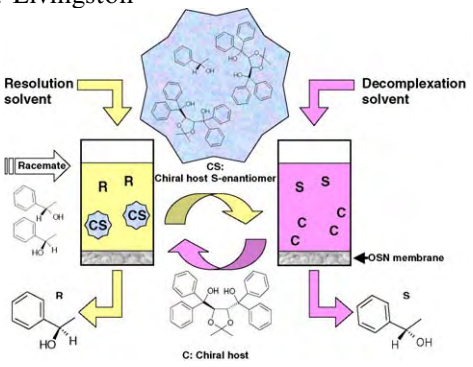


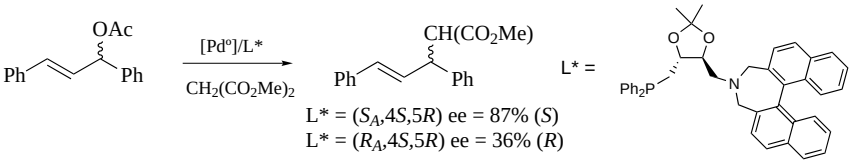


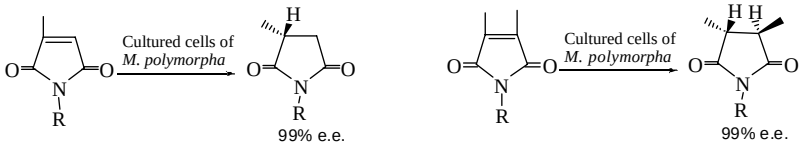




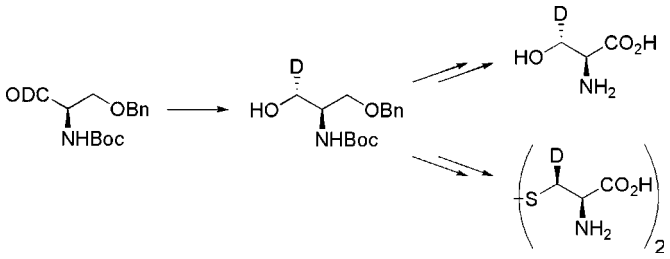
Coupling of enantioselective inclusion complexation (EIC) with organic solvent nanofiltration (OSN) enables the separation of enantiomers. This expands the applications of EIC from the resolution of volatile to practically any racemates and allows facile large-scale application. A decomplexation solvent is employed to dissociate enantiomers from the enantioenriched solid complex and subsequent separation of enantiomers from the chiral host is achieved via OSN.

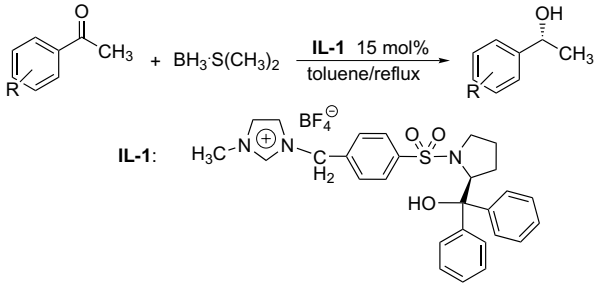






Suspension cultured cells of *Marchantia polymorpha* have the potential to hydrogenate the C–C double bonds of 2-methyl- and 2,3-dimethylmaleimide derivatives to give enantiomerically pure (2*R*)-2-methyl- and (2*R*,3*R*)-2,3-dimethylsuccinimide derivatives, respectively.





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Tetrahedron:
Asymmetry

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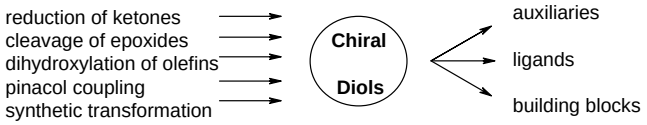

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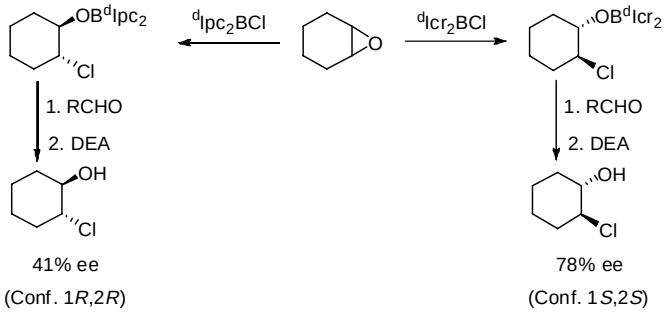

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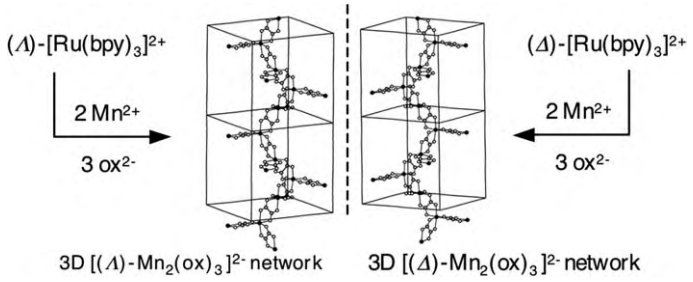
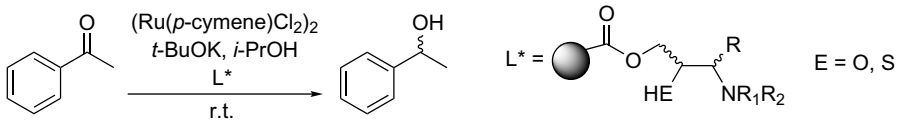
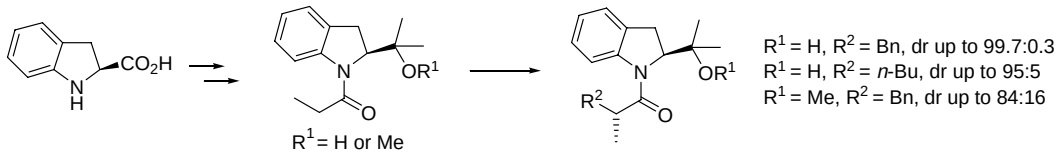
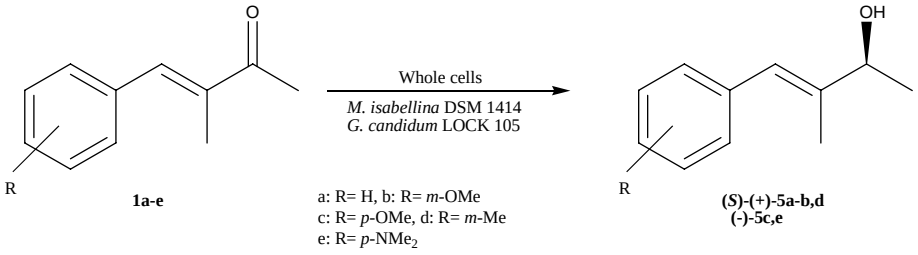
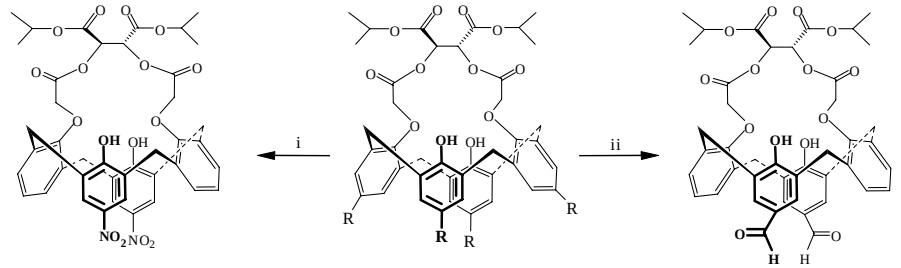
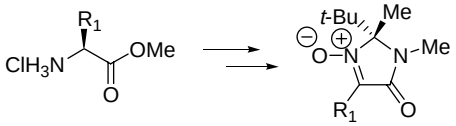




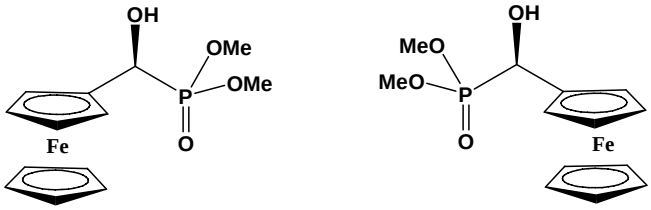


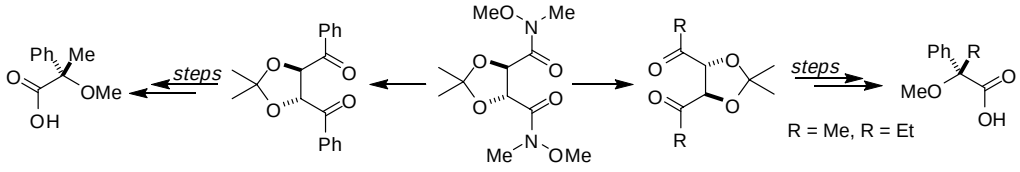


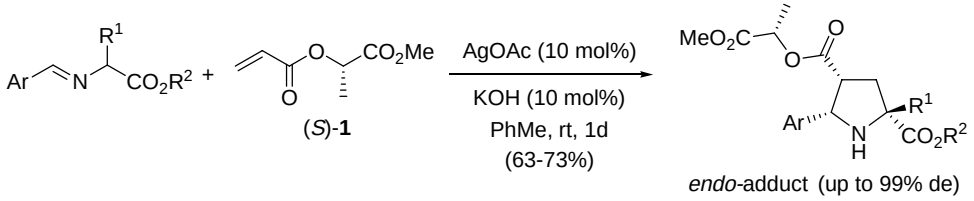




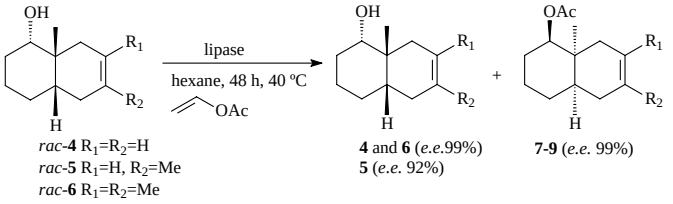
e.e. > 98%, 21-36% yield

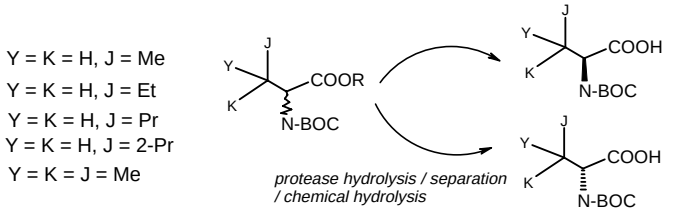


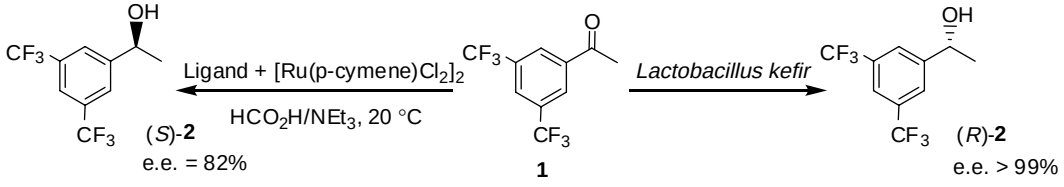


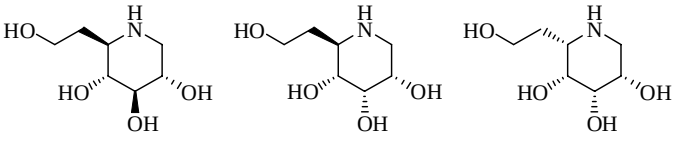


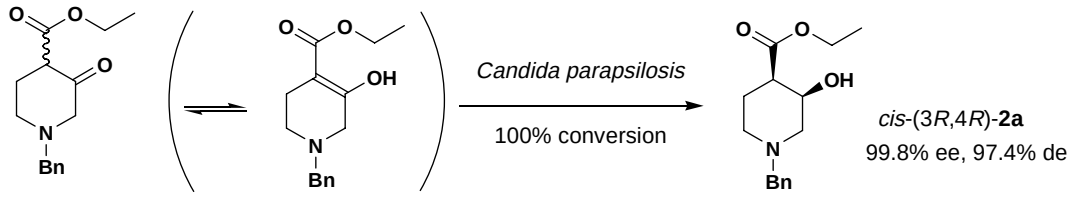
endo-adduct (up to 99% de)

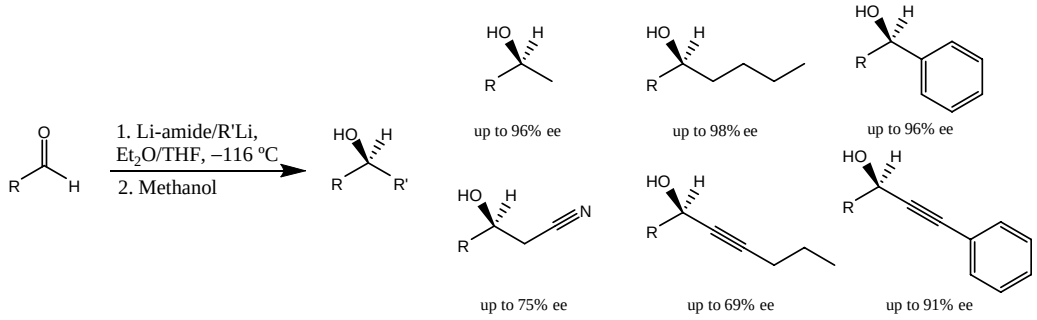


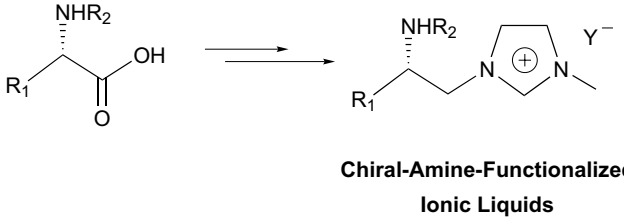


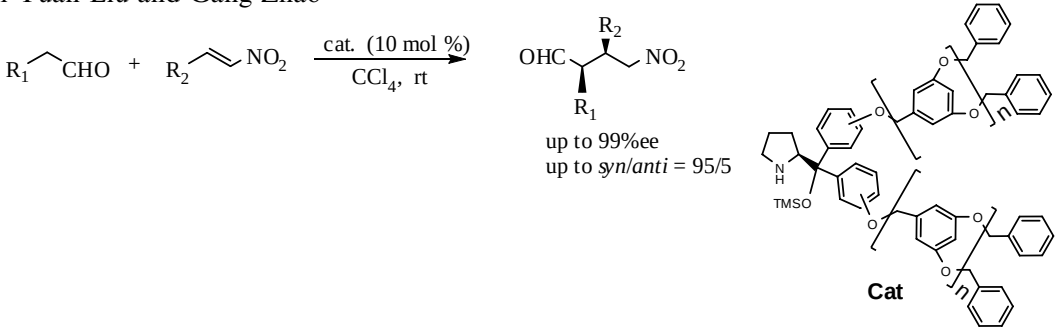












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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 14, 2006

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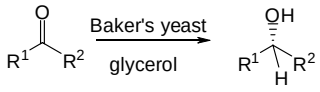

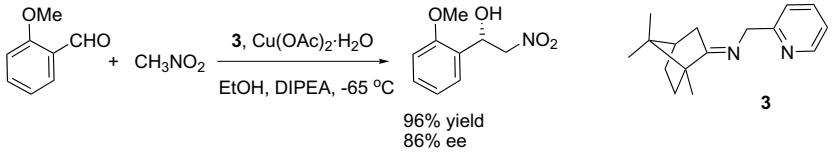

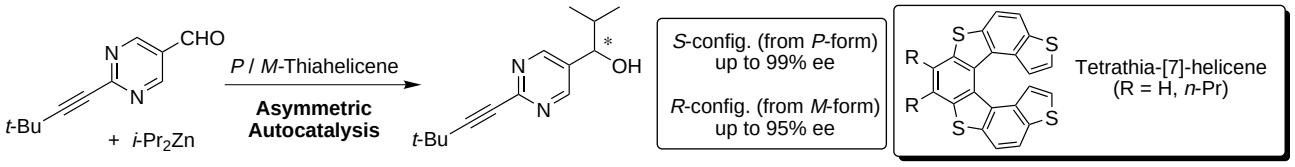

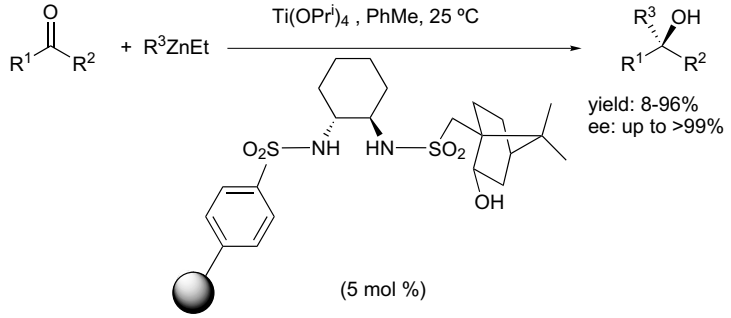

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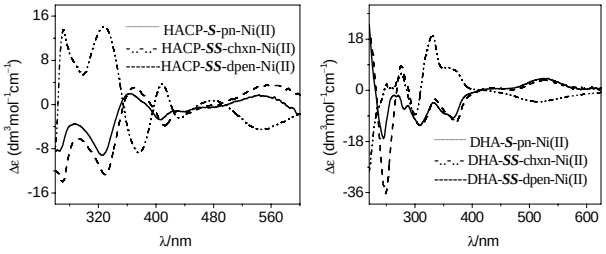

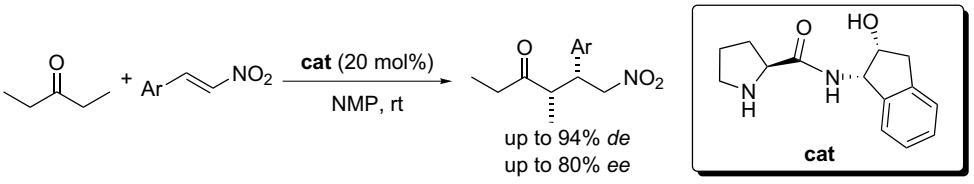

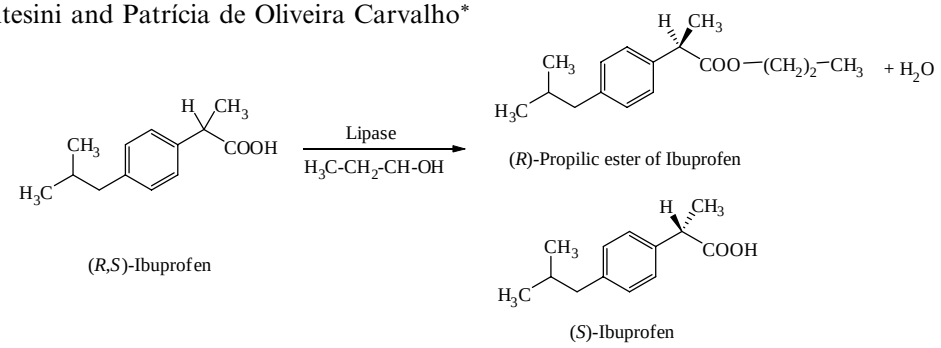

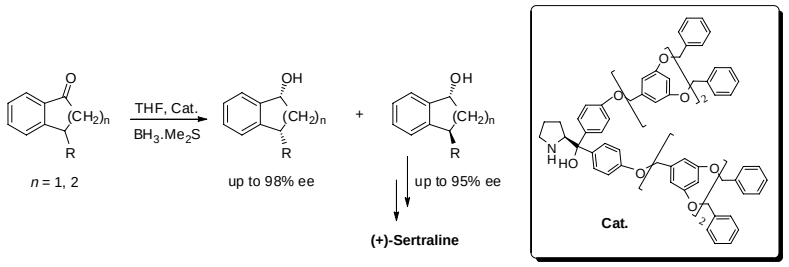

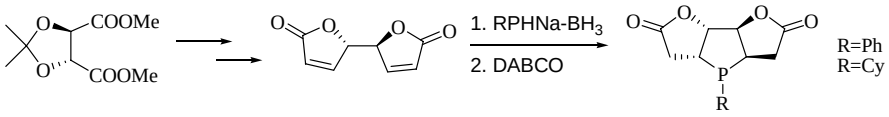

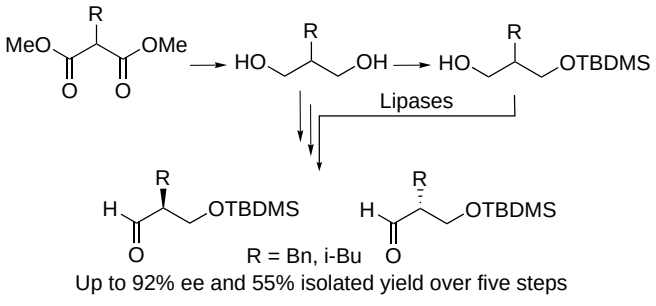

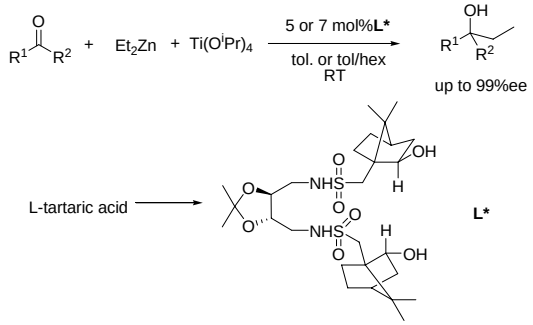

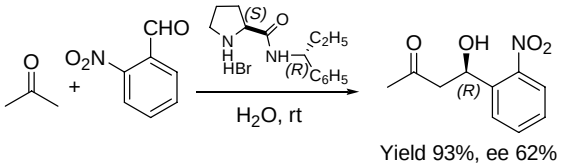

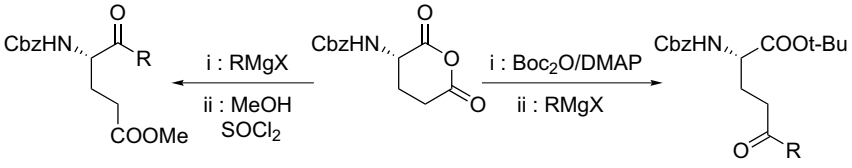

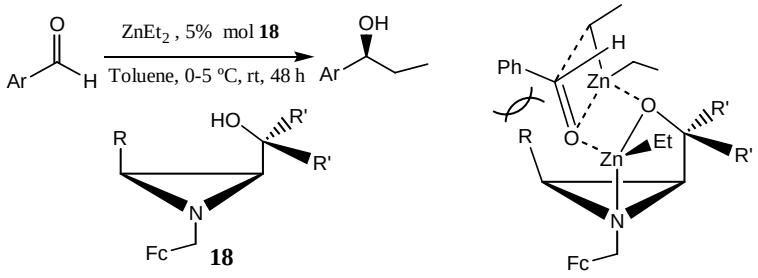

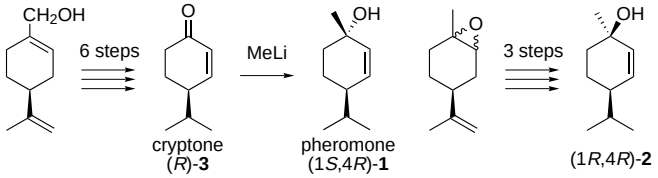

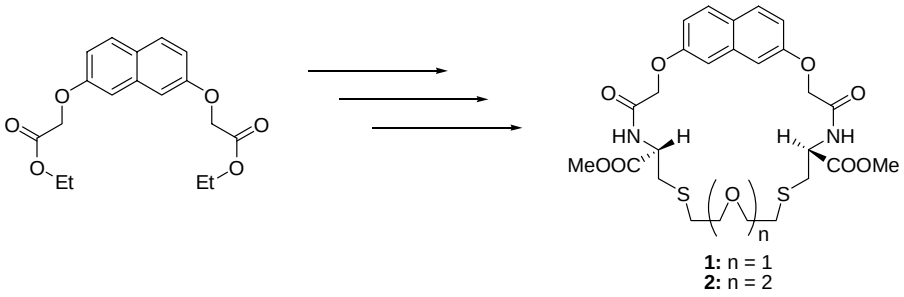

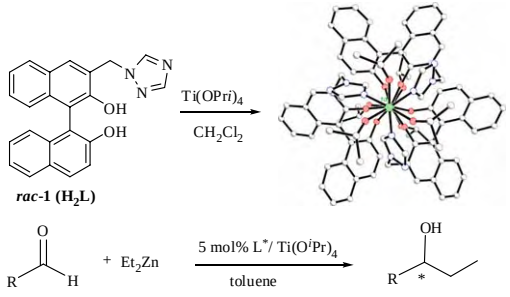

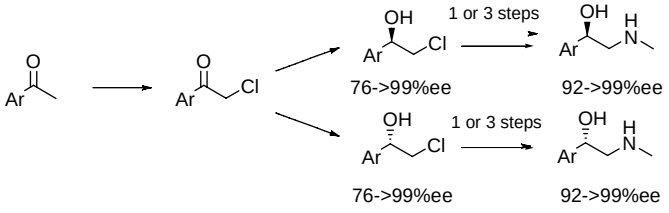

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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 15, 2006

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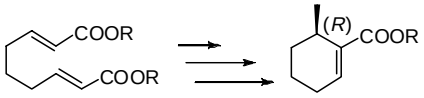

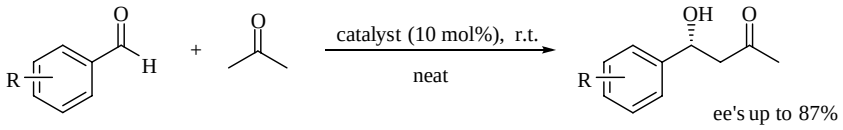

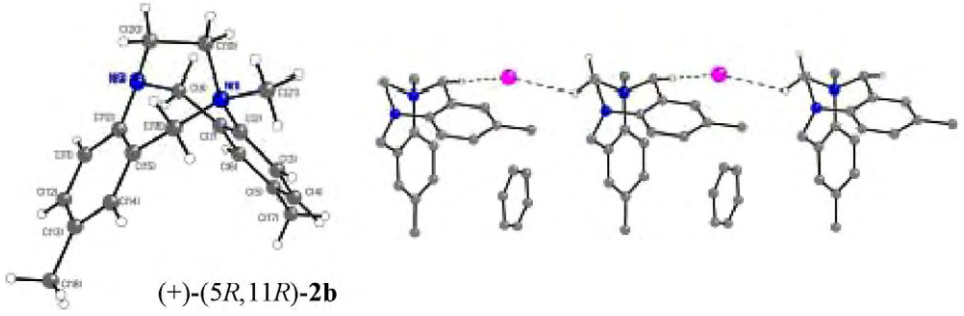

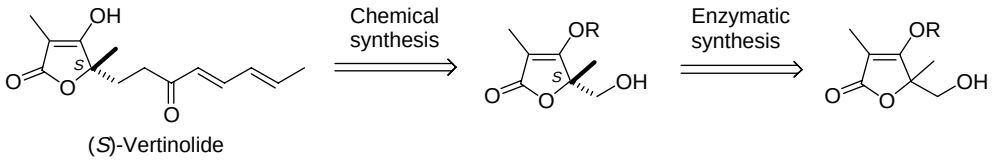

Both enantiomers were obtained with high enantiomeric excess by lipase-catalyzed kinetic resolution of tetronic acid derivatives. Total synthesis of (*S*)-vertinolide from (*S*)-alcohol was achieved in 33% yield in five steps.

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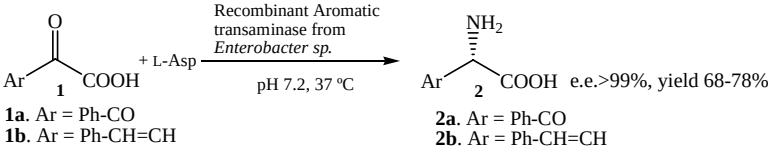
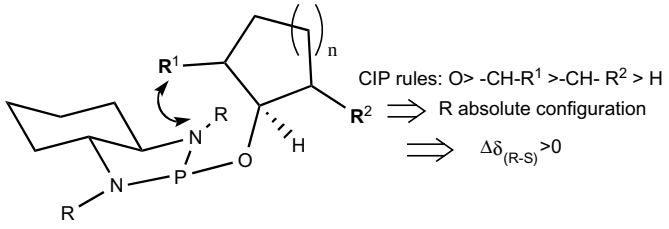
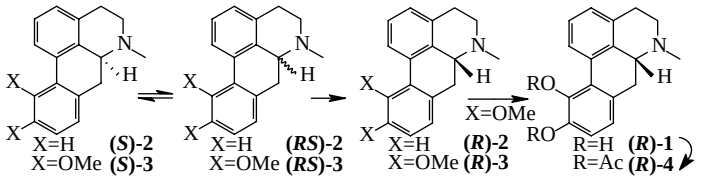
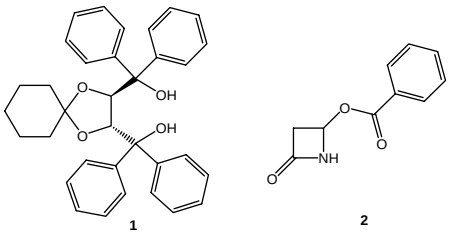
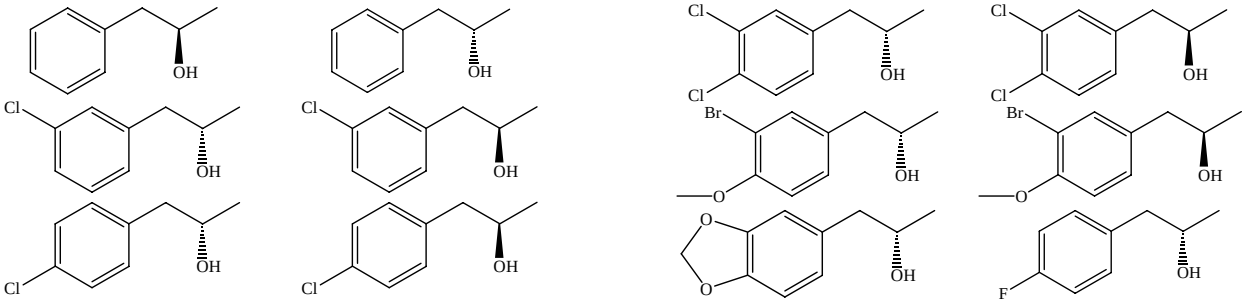
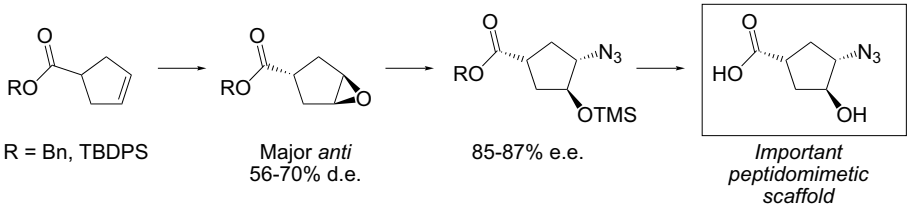




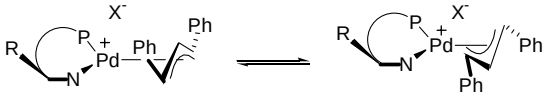


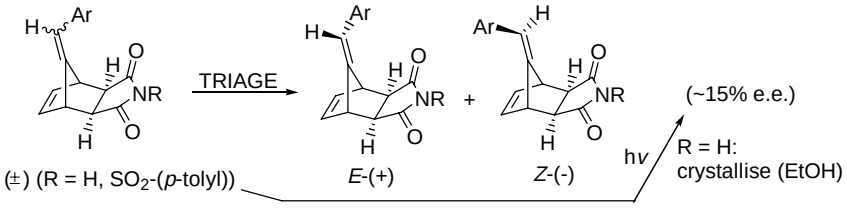


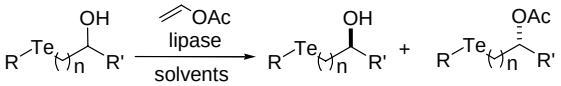


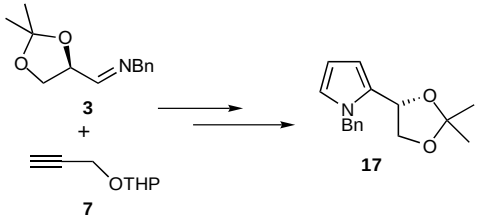


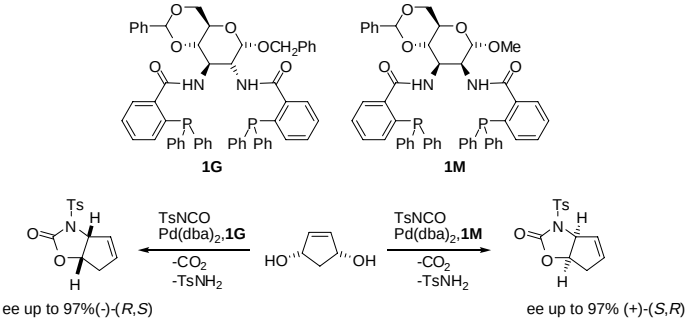
An improved stereoselective synthesis of 3-azido-4-hydroxy cyclopentanoic acid, **2**, is presented.

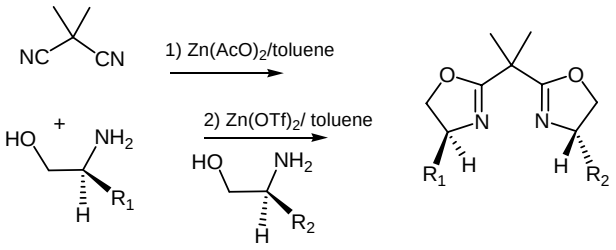


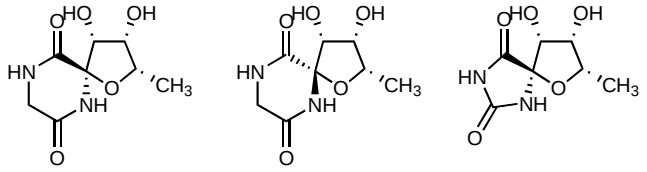




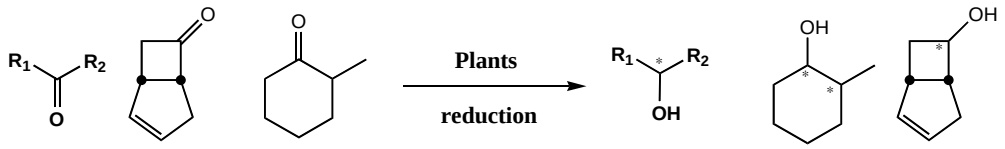


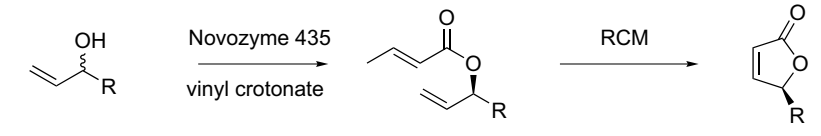






The anomeric spirodiketopiperazines and spirohydantoin of 6-deoxy-L-lyxofuranose have been prepared from L-fucose.





R = Pr, Bu, pentyl, hexyl

Two steps 75-89% yield

*Corresponding author

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Tetrahedron:
Asymmetry

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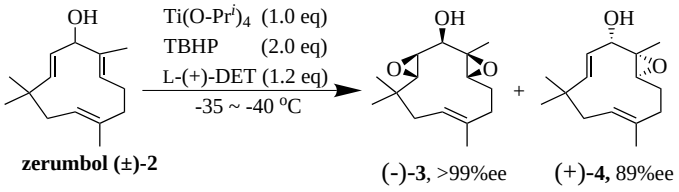
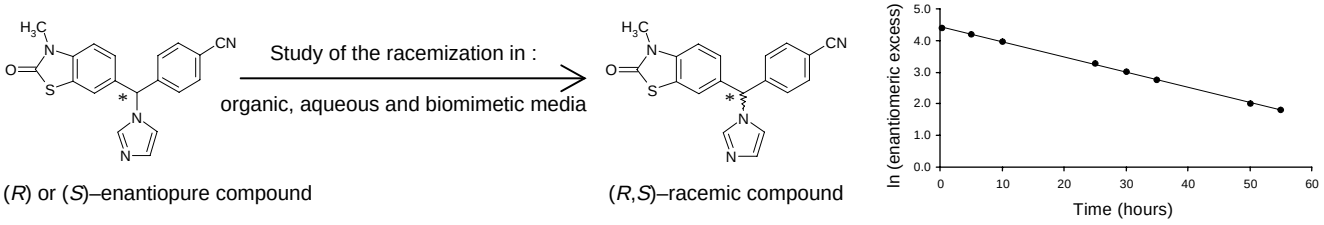
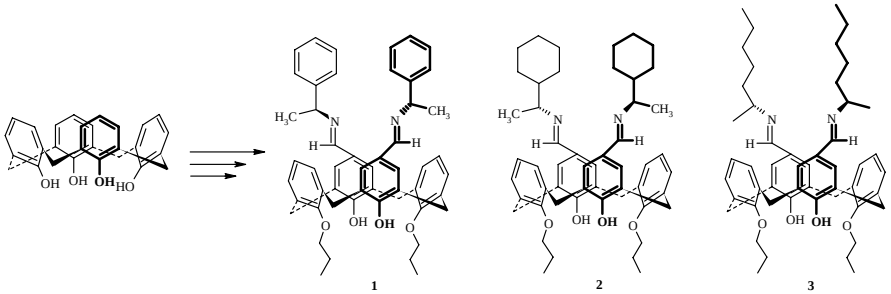
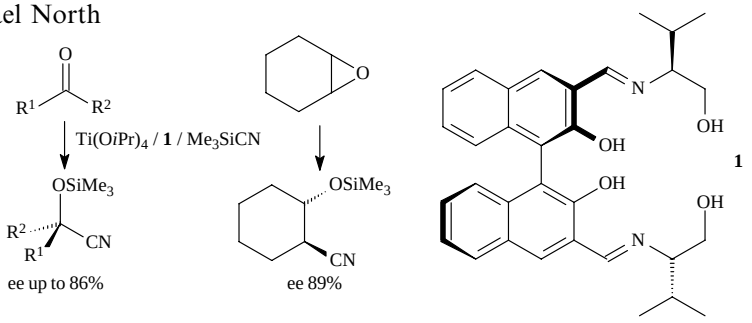
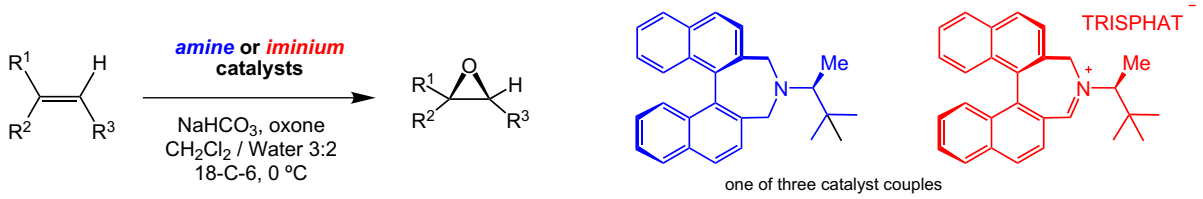
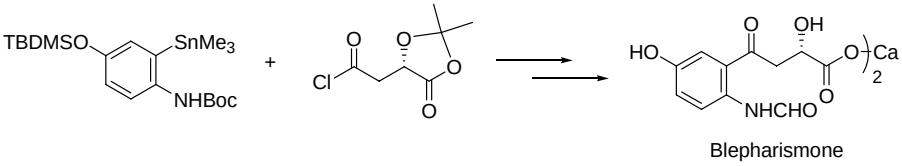


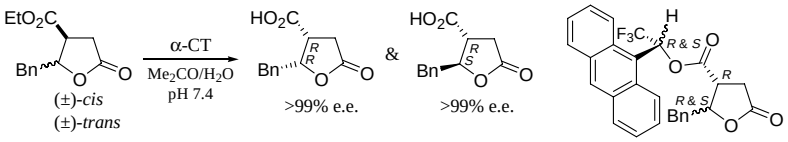


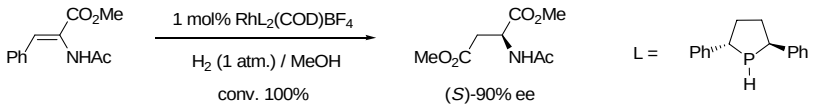


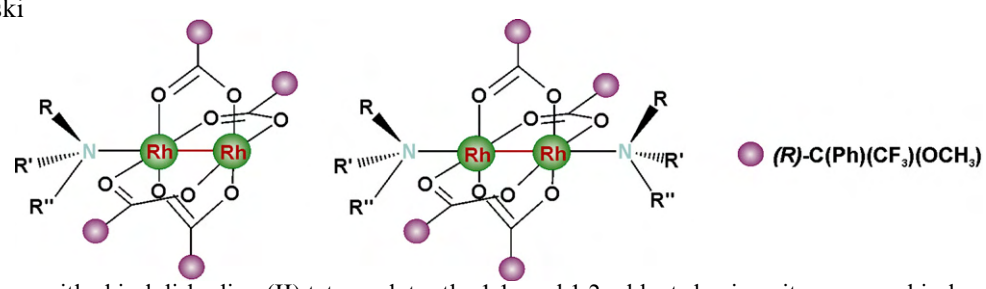




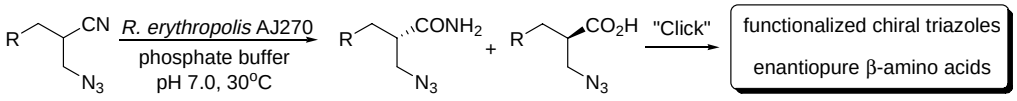


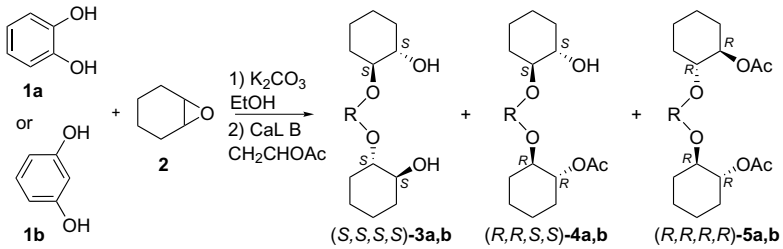


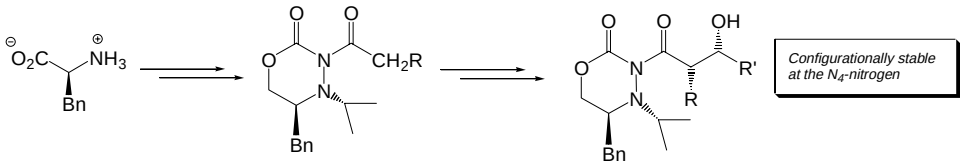


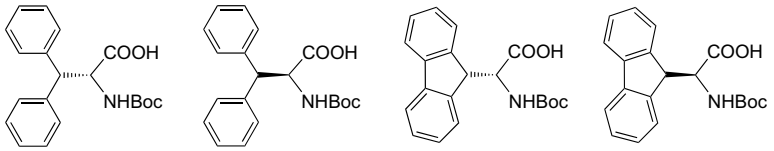


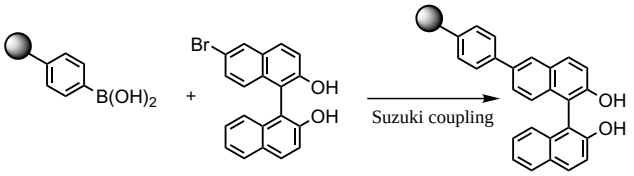
Amines NRR′R″ form with chiral dirhodium(II) tetraacylates the 1:1- and 1:2-adducts having nitrogenous chiral centers. Despite ligand exchange in the solution, the individual species are detectable by low temperature NMR.



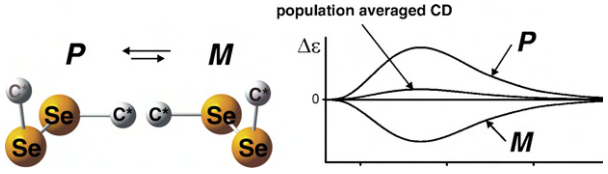


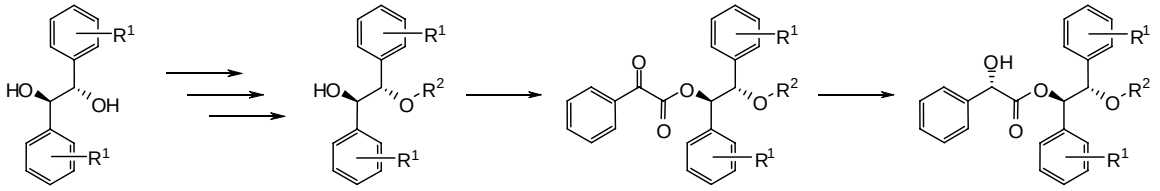






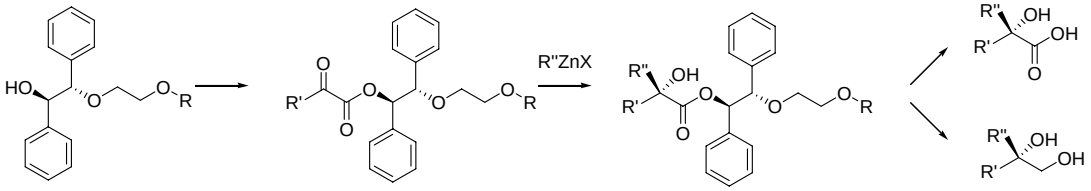
PS-BINOLs are easily prepared using the above reaction. The PS BINOLs react with titanium isopropoxide to give PS-species that catalyze the oxidation of aryl methyl thioethers by *tert*-butyl hydroperoxide in THF at 0 °C. These give the sulfoxides in up to 91% ee.

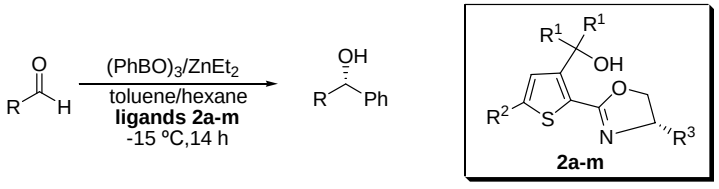




R^1 = 2-OCH_3, 2-CH_3, 4-OCH_3, 2-CF_3

R^2 = $CH_2CH(CH_3)_2$, $CH_2CH_2OCH_3$, Wang resin, CH_2CH_2O-Wang resin





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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 17, 2006

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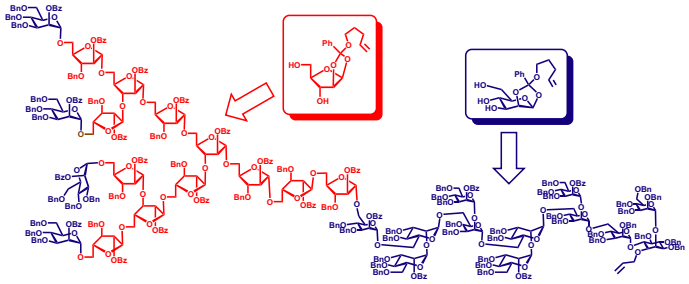

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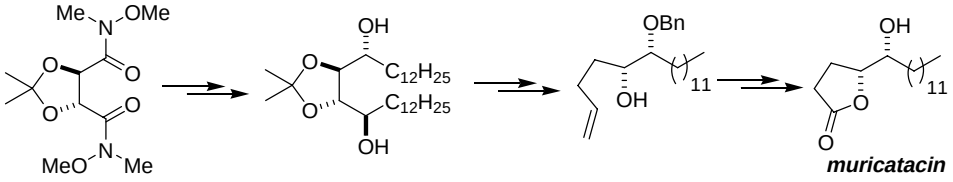

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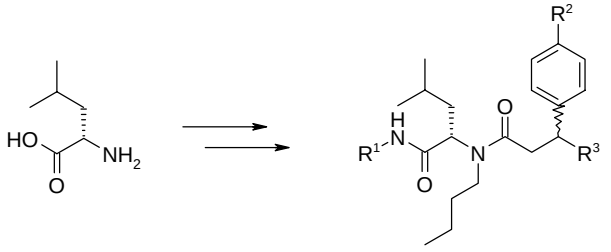
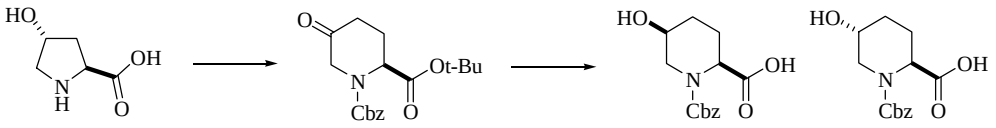
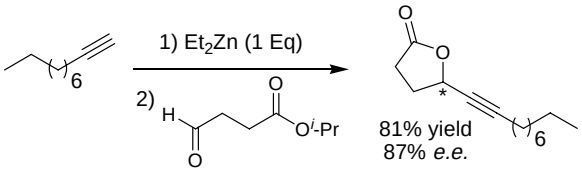
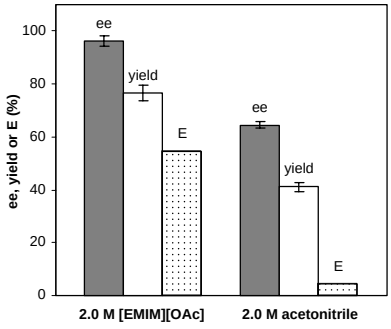
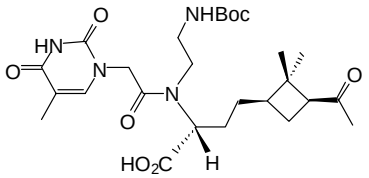




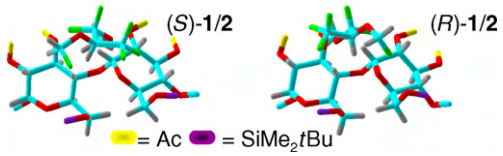


The kinetic resolution of DL-phenylalanine methyl ester catalyzed by lyophilized *Bacillus licheniformis* protease was carried out at 30 °C in 2.0 M [EMIM][CH_3COO] and 2.0 M acetonitrile, respectively. At 40 min reaction time, much higher ee and yield were obtained in the ionic liquid (IL) solution than those in the organic solution, suggesting that this IL stabilizes the enzyme while the organic solvent deactivates it.



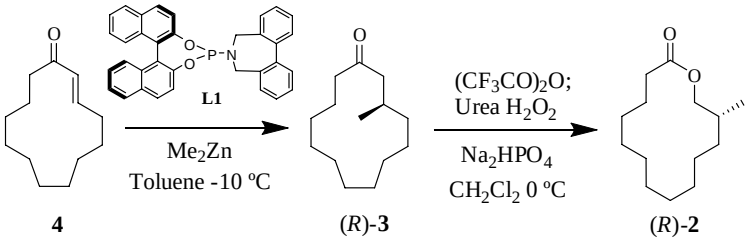


Highly efficient NMR enantiodiscrimination of 1,1,1,3,3-pentafluoro-2-(fluoromethoxy)-3-methoxypropane, a chiral degradation product of sevoflurane, by heptakis(2,3-di-*O*-acetyl-6-*O*-*tert*-butyldimethylsilyl)-β-cyclodextrin pp 2504–2510
Gloria Uccello-Barretta, Giuseppe Sicoli, Federica Balzano, Volker Schurig and Piero Salvadori*

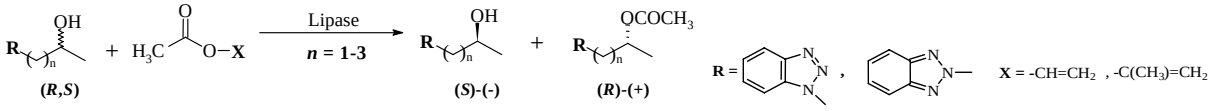


An alternative stereoselective synthesis of the macrocyclic fragrances (*R*)-12-methyltridecanolide and (*S*)-muscolide by means of an asymmetric catalytic conjugate addition/Baeyer–Villiger oxidation pp 2511–2515
Patrizia Scafato, Augusto Larocca and Carlo Rosini*

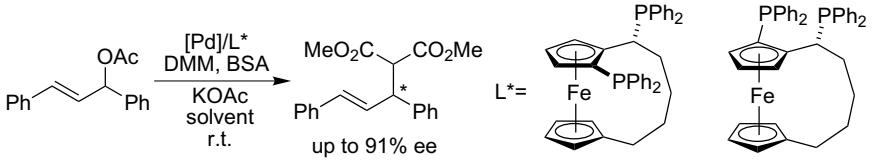
Compound (*R*)-**2** is a natural constituent of angelica root oil (*Archangelica officinalis* Hoffm.).
It's possesses a *musk note with a sandalwood tonality*. [Kraft, P.; Frater G. *Chirality*, **2001**, *13*, 388–394].
The precious macrocyclic fragrance (*R*)-**2** has been obtained in good yield and high (92%) enantiomeric excess by asymmetric catalytic conjugate addition of dimethylzinc to the α,β-unsaturated ketone **4**, followed by a regioselective Baeyer–Villiger oxidation of (*R*)-**3**. Using the same procedure the structurally similar fragrance (*S*)-muscolide has been obtained.

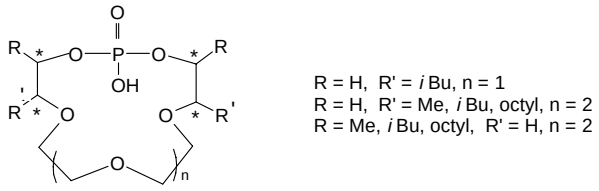


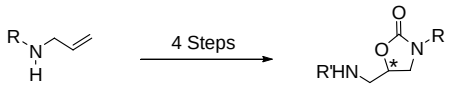
Preparation of various enantiomerically pure (benzotriazol-1-yl)- and (benzotriazol-2-yl)-alkan-2-ols pp 2516–2530
Beata K. Pchelka,* André Loupy and Alain Petit

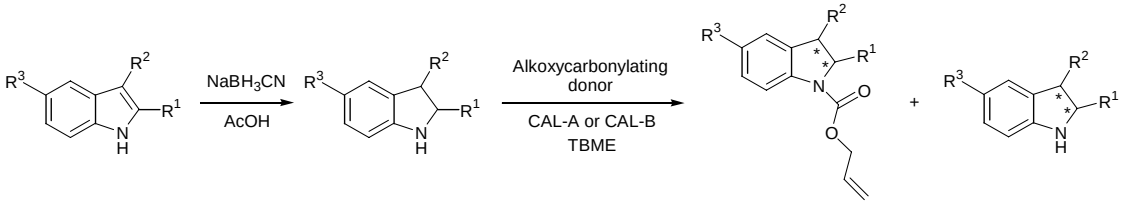


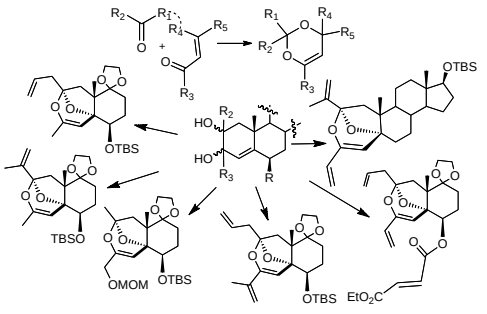
New [5]ferrocenophane diphosphine ligands for Pd-catalyzed allylic substitution pp 2531–2537
Radovan Šebesta,* Ambróz Almassy, Ivana Císařová and Štefan Toma











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Tetrahedron:
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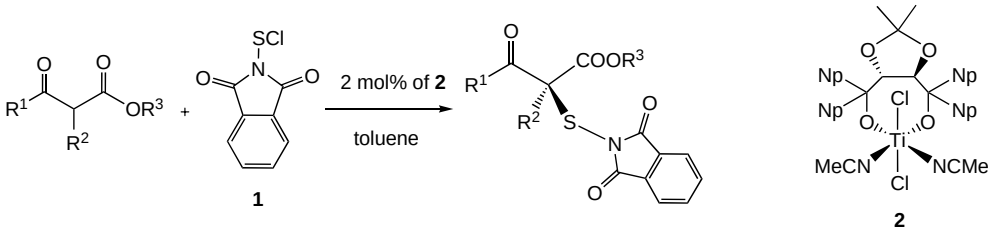

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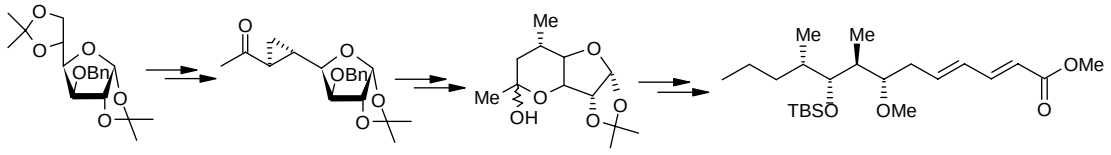
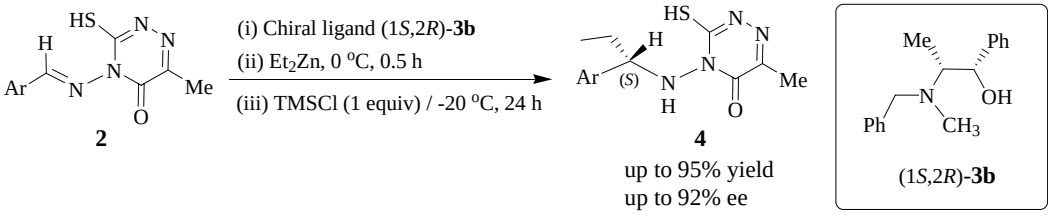


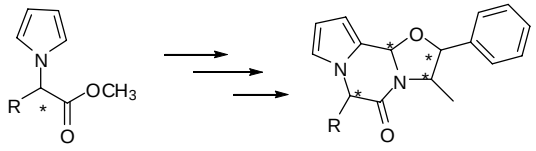


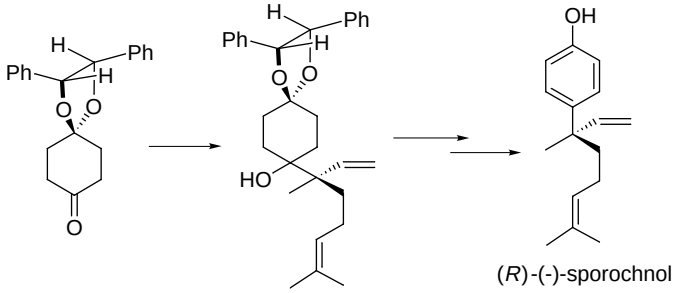
2 4

up to 95% yield
up to 92% ee

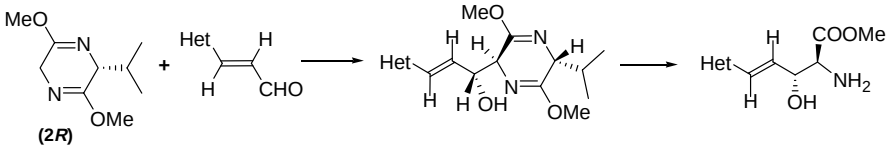
(1*S*,2*R*)-**3b**

Chiral 4-(1-arylpropyl)amino-3-mercapto-6-methyl-4*H*-1,2,4-triazin-5-ones **4** were synthesized easily through the enantioselective diethylzinc addition to the exocyclic C=N double bond of 4-arylideneamino-3-mercapto-6-methyl-4*H*-1,2,4-triazin-5-ones **2**. Enantiomeric excess of up to 92% was obtained using (1*S*,2*R*)-*N*-methyl-*N*-benzylnorephedrine **3b** as chiral ligand and TIPSCl as activator.

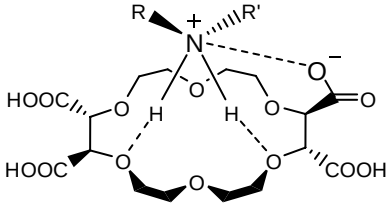


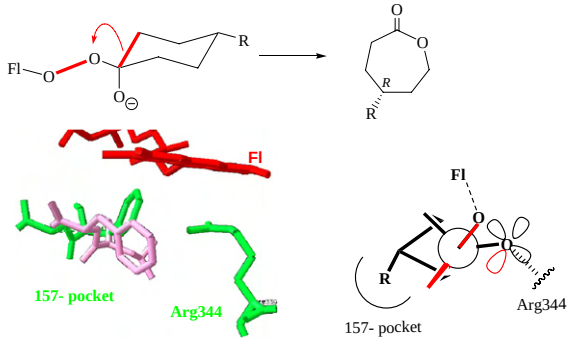


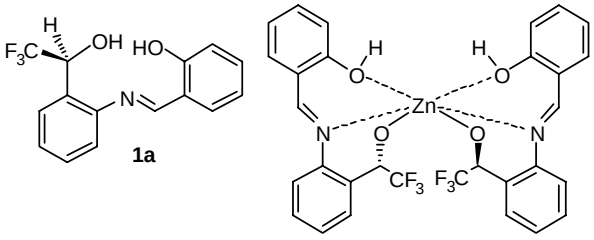
A short and efficient synthesis of (*R*)-(−)-sporochnol A in only five steps and 9% overall yield has been developed.

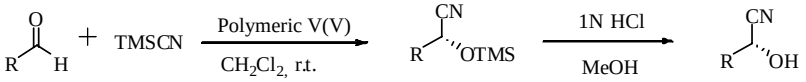


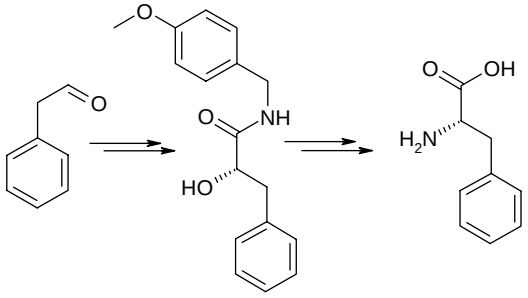
Het = 2-furyl; 2-thiazolyl; 2-thienyl; 5-*p*-tolyl-isoxazol-3-yl; 2-pyridyl

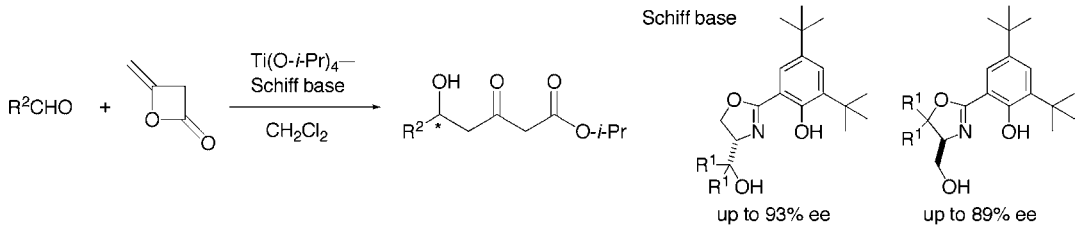


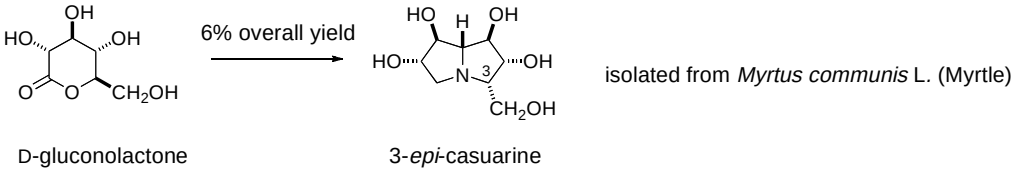




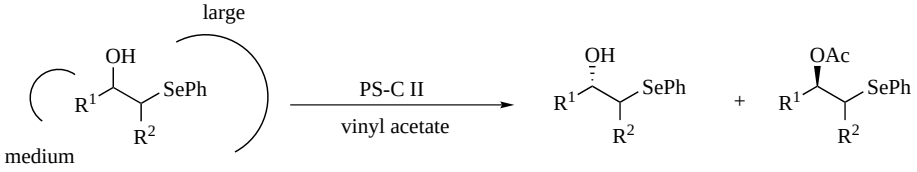








D-gluconolactone 3-*epi*-casuarine



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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 19, 2006

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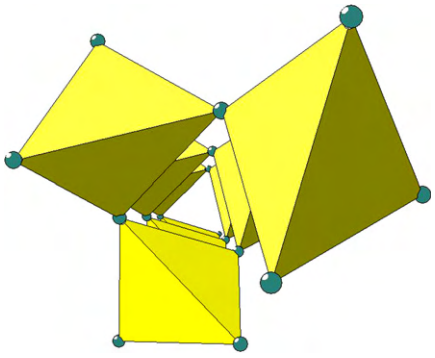

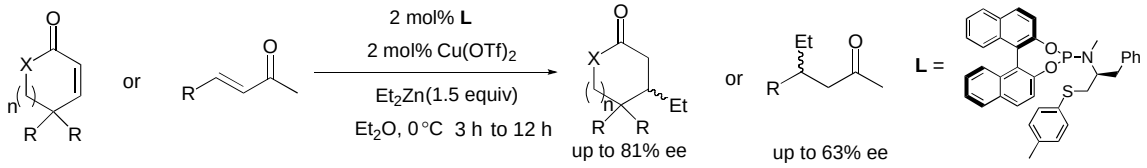

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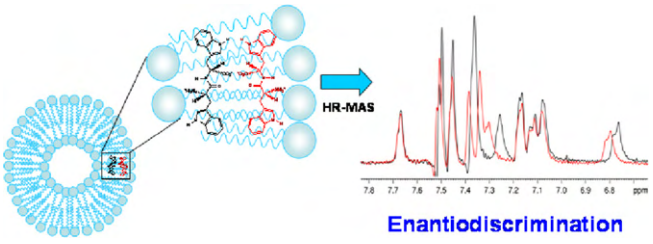
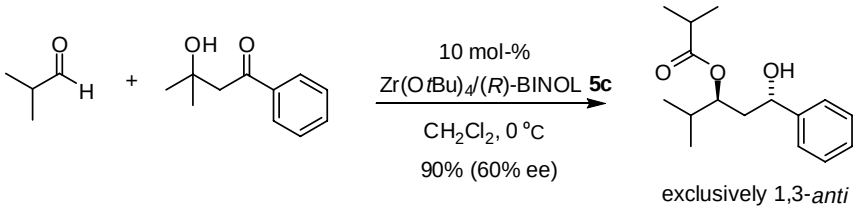
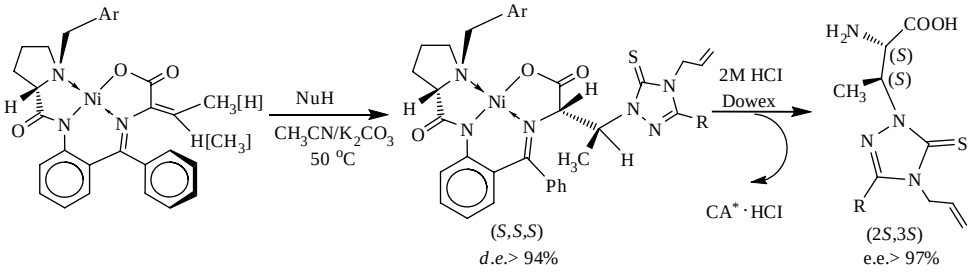
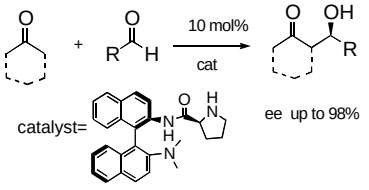
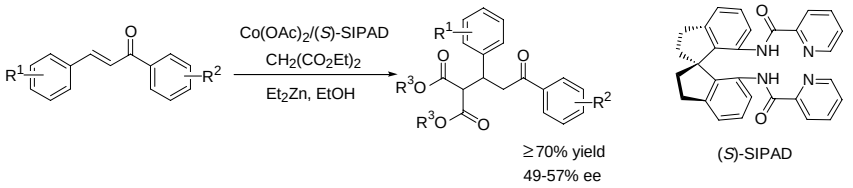


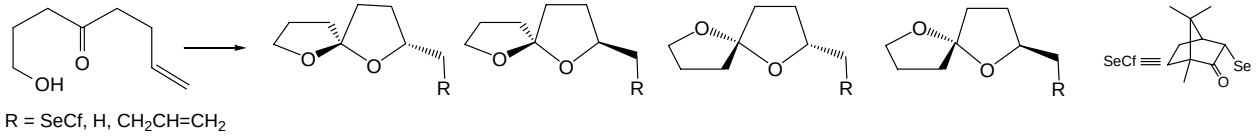


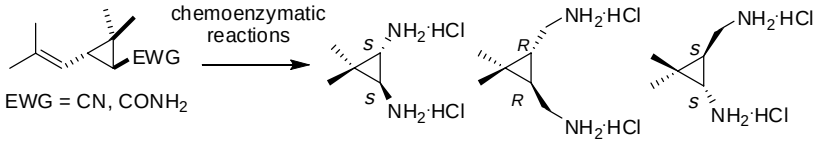


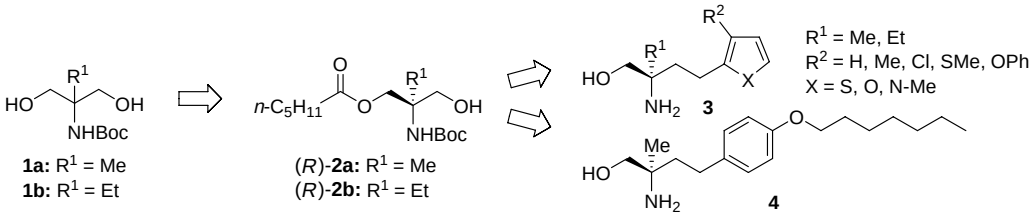


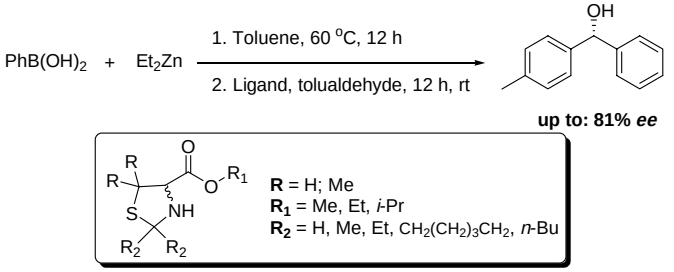
Multifunctional binaphthyl diamine-based organocatalysts were shown to be able to promote the direct aldol condensation between acetone, methoxyacetone or cyclohexanone and different aldehydes in very good yields and high enantioselectivities.

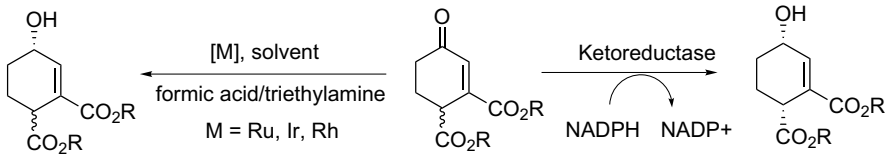






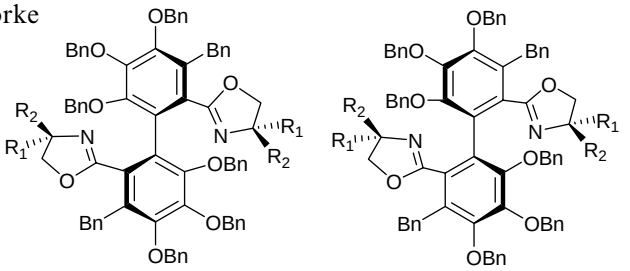






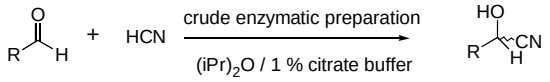
Transition metal-based transfer hydrogenation provides the allylic alcohol in high enantiomeric purity but low diastereomeric excess. In contrast, an enzymatic dynamic kinetic reduction proceeds with high diastereoselectivity and enantioselectivity.

Synthesis of novel chiral ligands and their application in the copper(I)-catalyzed asymmetric cyclopropanation of styrene with ethyl diazoacetate.

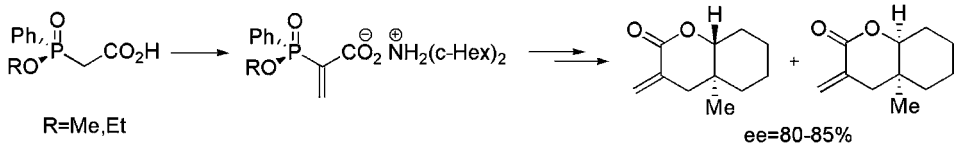


R_1 = *i*-Pr, R_2 = H; (a*S*,*S*,*S*)-**14**
R_1 = *t*-Bu, R_2 = H; (a*S*,*S*,*S*)-**15**

R_1 = R_2 = Me; (a*R*)-**9**
R_1 = *i*-Pr, R_2 = H; (a*R*,*S*,*S*)-**16**
R_1 = *t*-Bu, R_2 = H; (a*R*,*S*,*S*)-**17**



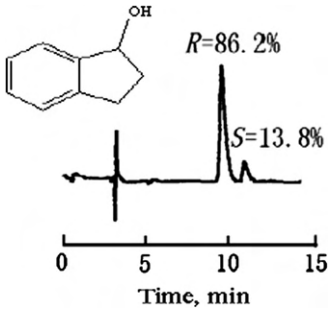
1a-i **2a-i**



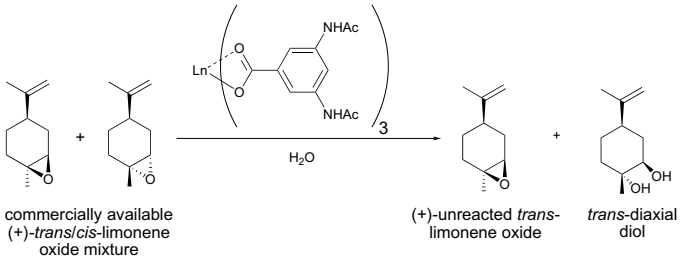
ee=80-85%

Enantiomeric impurities in chiral synthons, catalysts, and auxiliaries: Part 3 **pp 2821–2832**
Ke Huang, Zachary S. Breitbach and Daniel W. Armstrong*

Eighty-four commercially available chiral synthons, auxiliaries, and catalysts were evaluated to determine their actual enantiomeric composition.



Water soluble lanthanoid benzoate complexes for the kinetic separation of *cis*/*trans*-limonene oxide **pp 2833–2838**
Philip C. Andrews,* Michael Blair, Benjamin H. Fraser, Peter C. Junk, Massimiliano Massi and Kellie L. Tuck



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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 20, 2006

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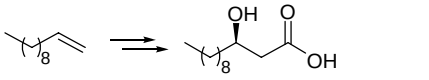
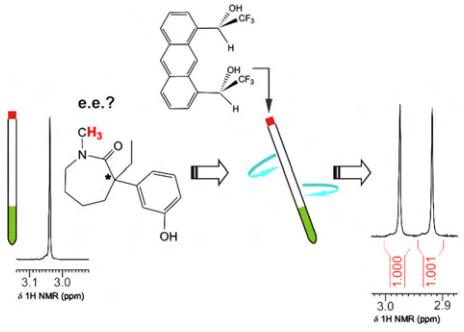


(*R*)-(-)-3-hydroxydodecanoic acid
ee >99%



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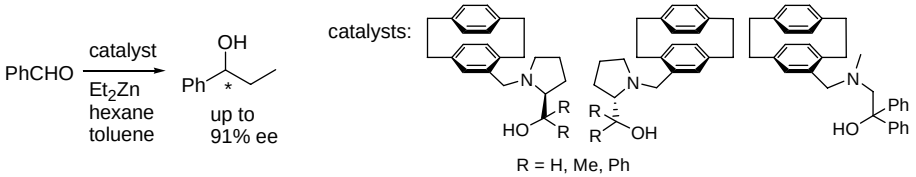
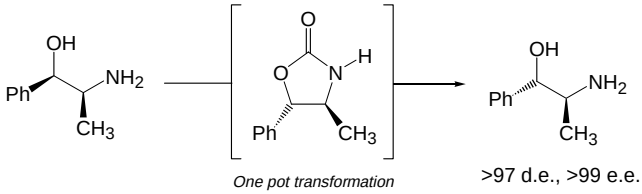
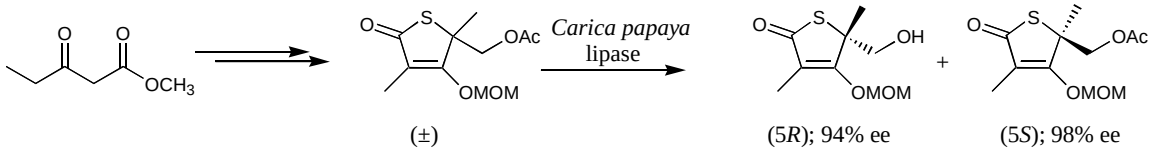
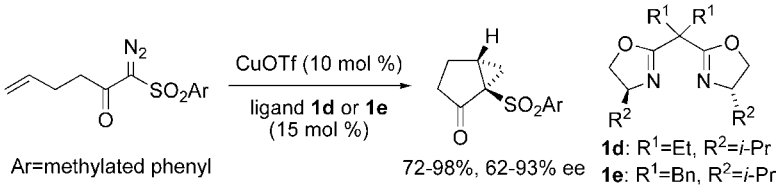
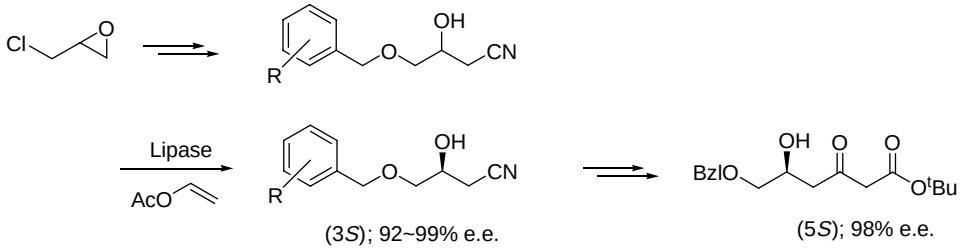
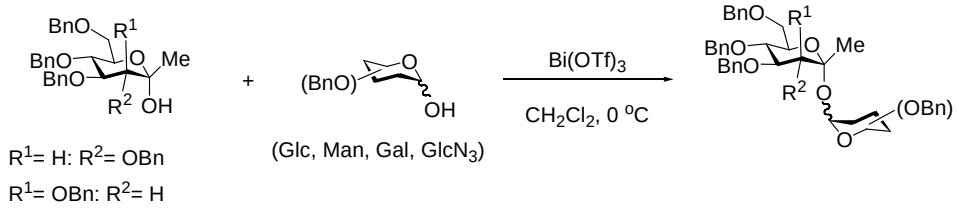


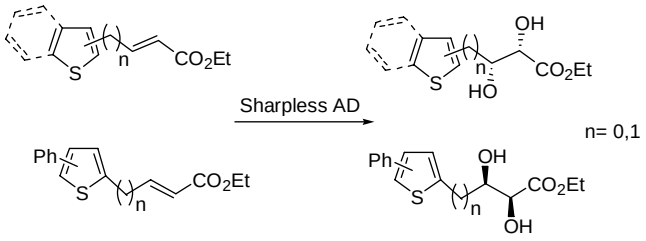


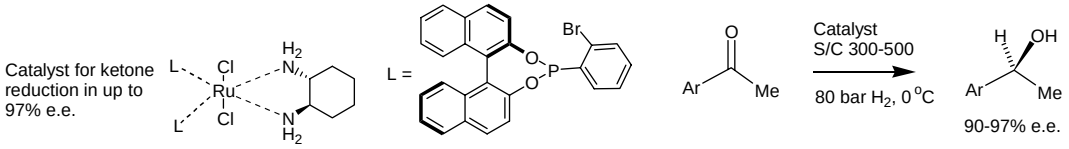


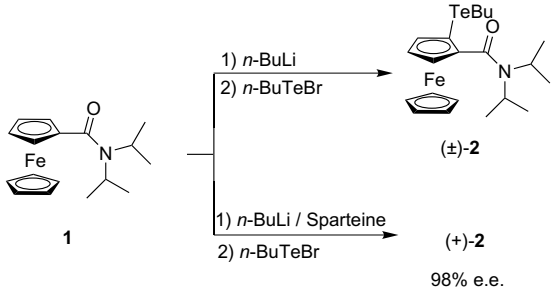


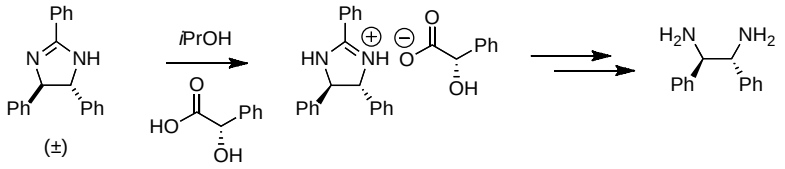




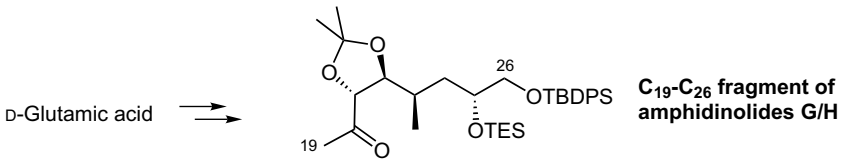




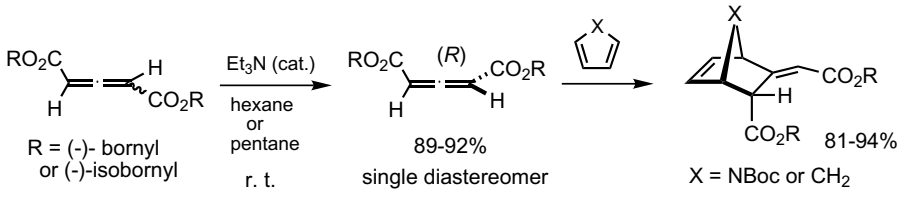




Resolution of (±)-*iso*-amarine with mandelic acid gives access to enantiopure 1,2-diamino-1,2-diphenylethanes.



A short, stereoselective synthesis of the C_{19}–C_{26} segment of the structure of the cytotoxic macrolides amphidinolides G and H is reported.



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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 21, 2006

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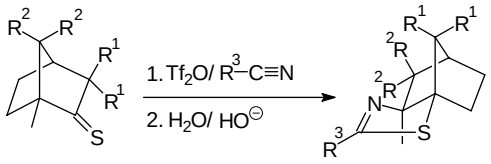
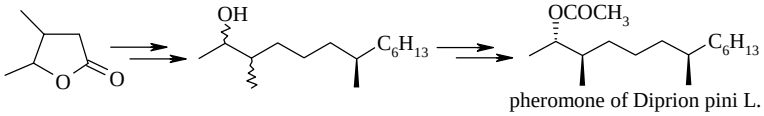
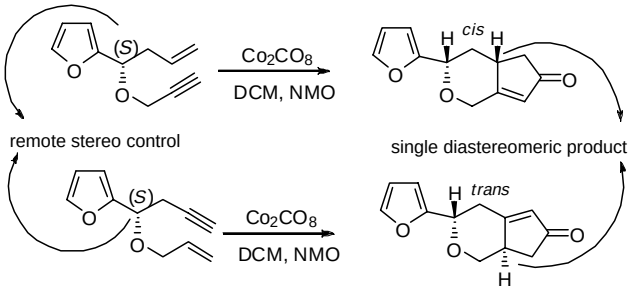
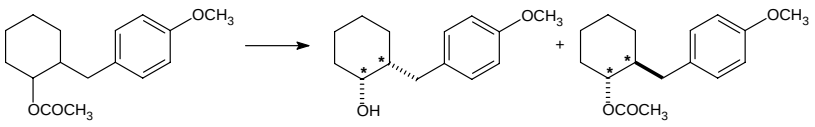
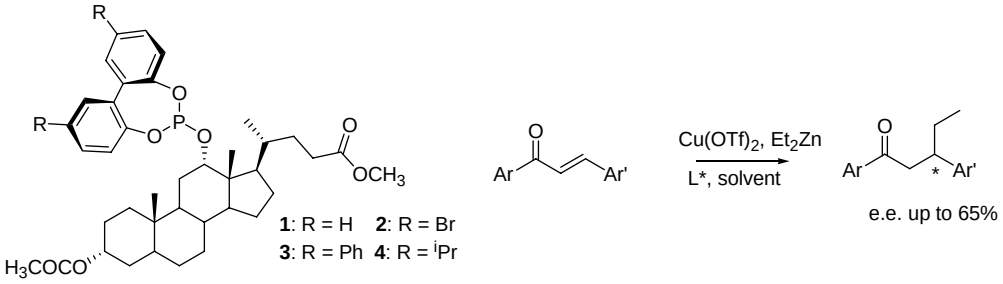


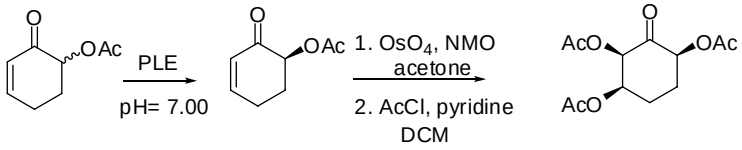


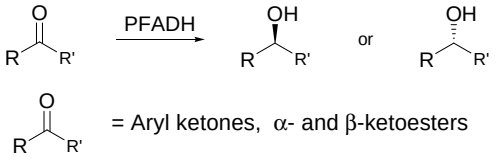


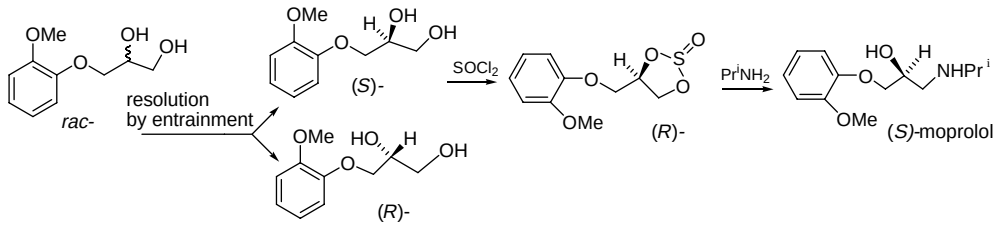


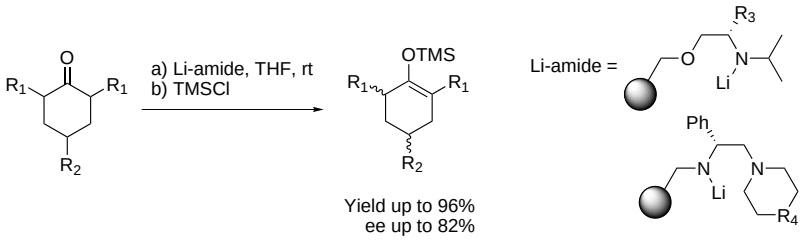
Enzyme resolution of the isomers of 2-(4-methoxybenzyl)cyclohexyl acetate was studied employing three commercially available lipases, two ionic liquids, three modifications of the reaction conditions and two respective isomers of the racemic substrate, 2-(4-methoxybenzyl)cyclohexyl acetate.

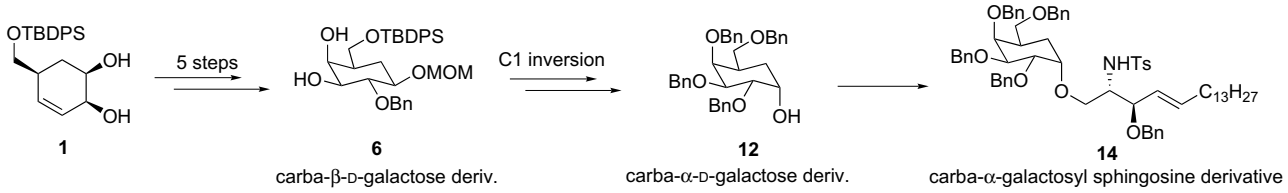


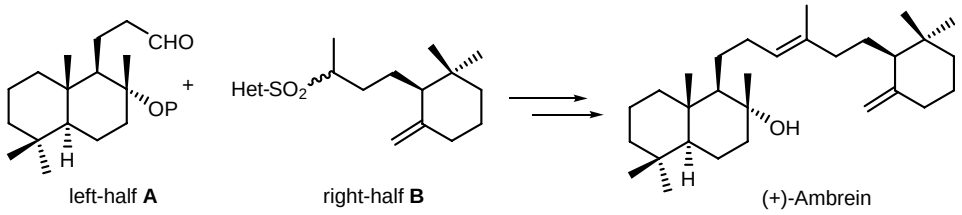


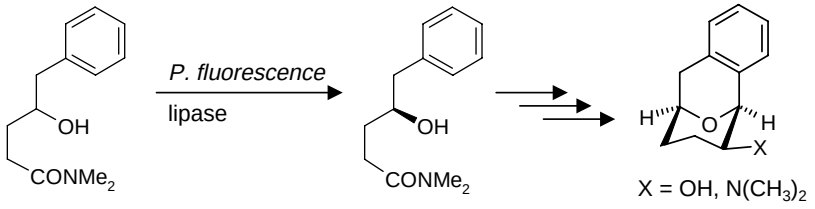


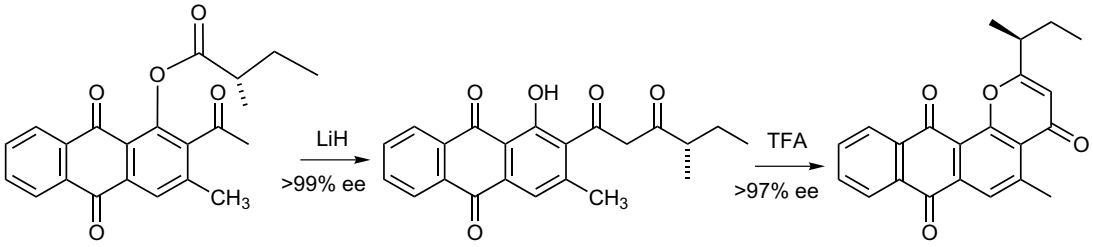


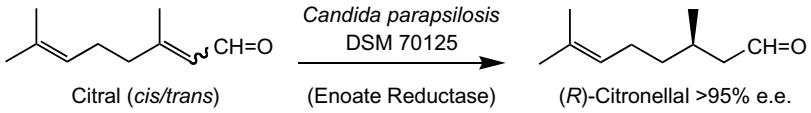












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Tetrahedron:
Asymmetry

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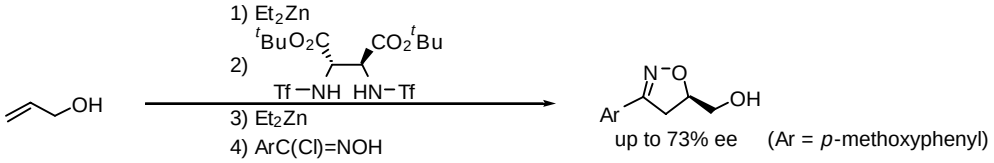
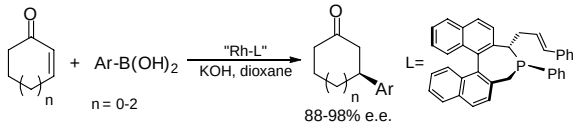
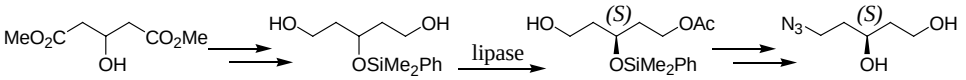
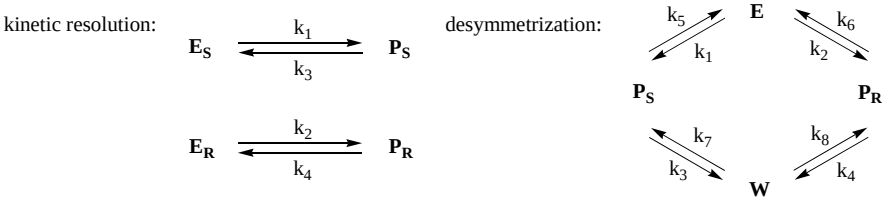
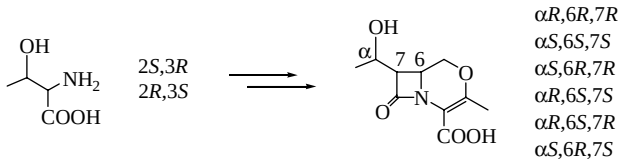
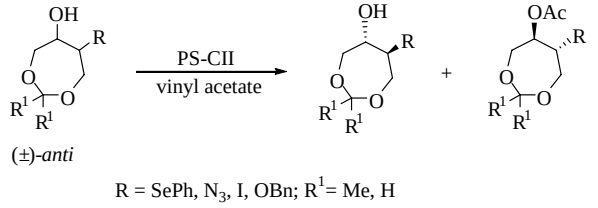


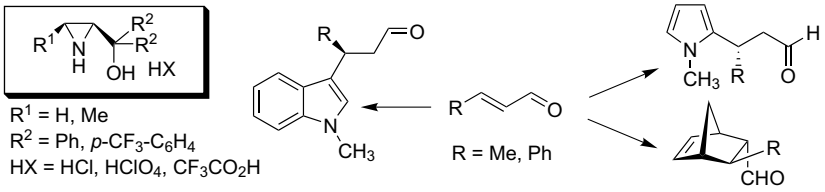


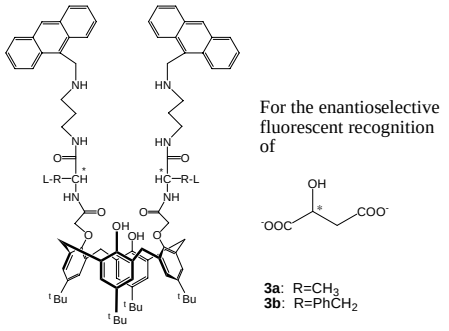


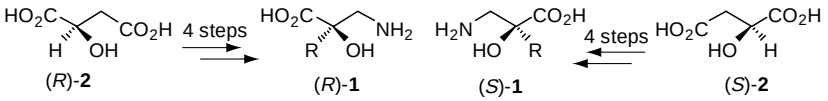


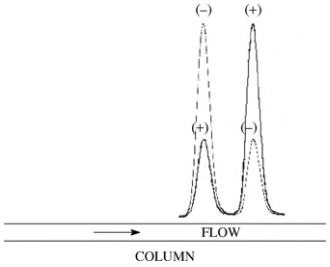




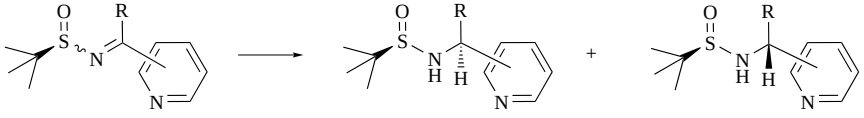


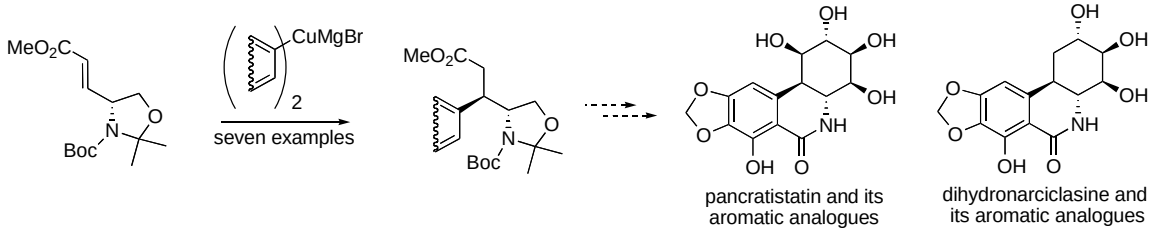


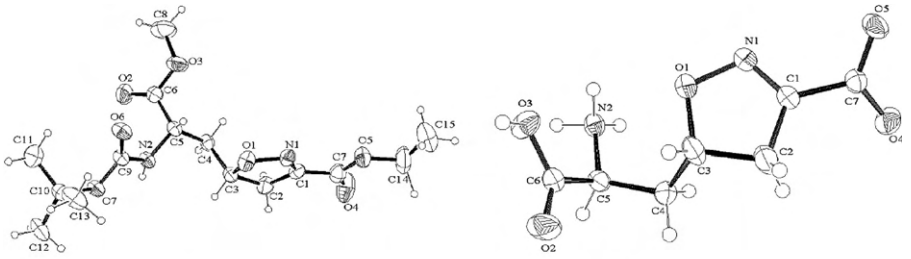




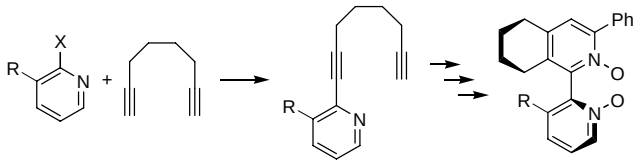
Racemization of individual peak during stopped flow condition.







(±)-**11** (-)-**1b**



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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 17, No. 23, 2006

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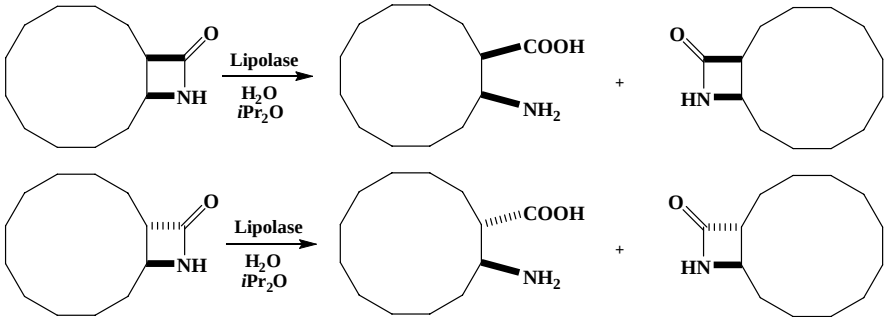

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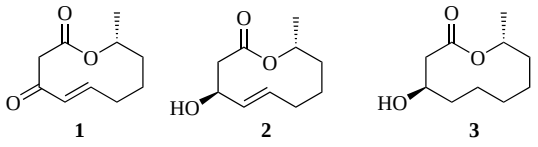
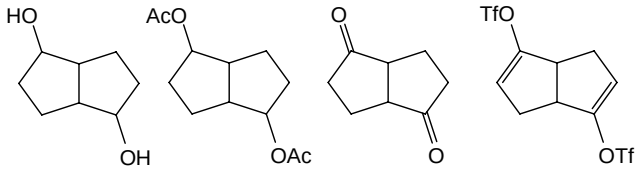
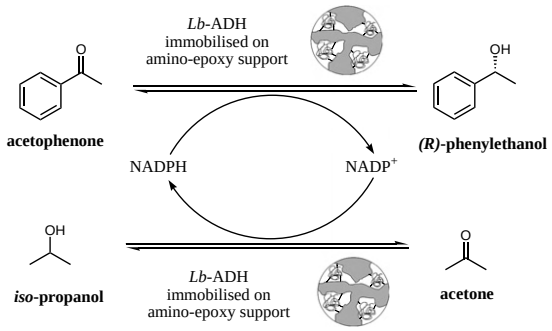
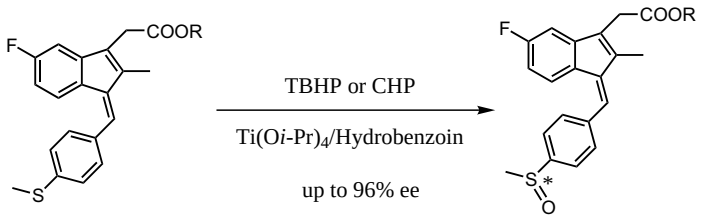
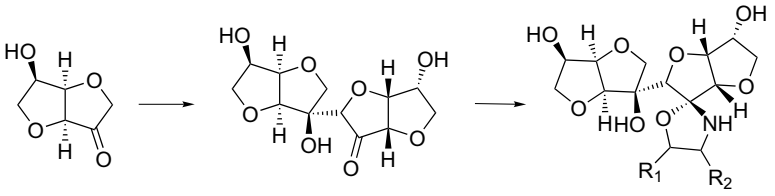


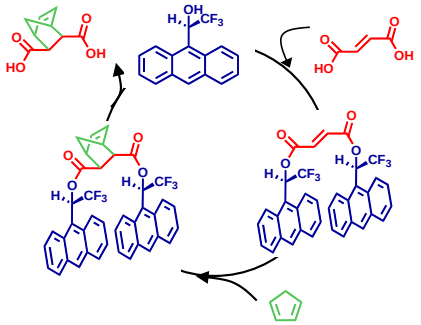
Synthesis of compounds **2** and **3** is described, along with the formal synthesis of **1**.

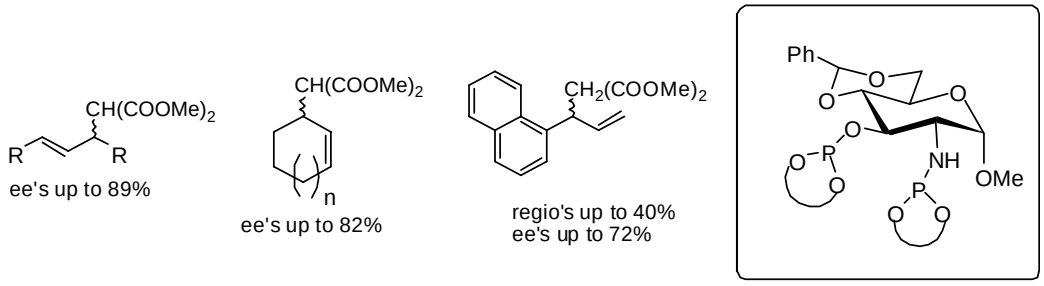


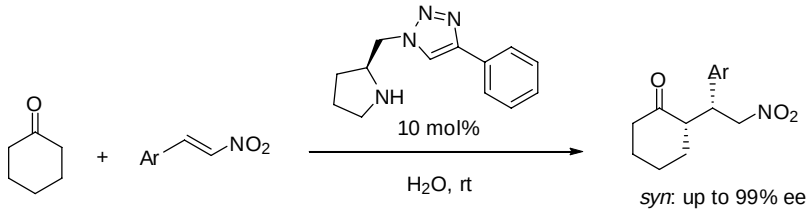


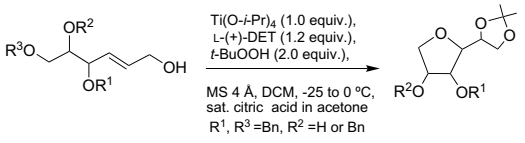


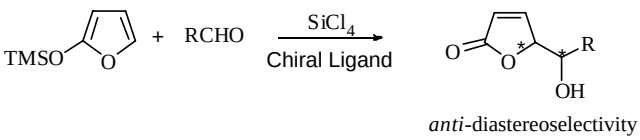


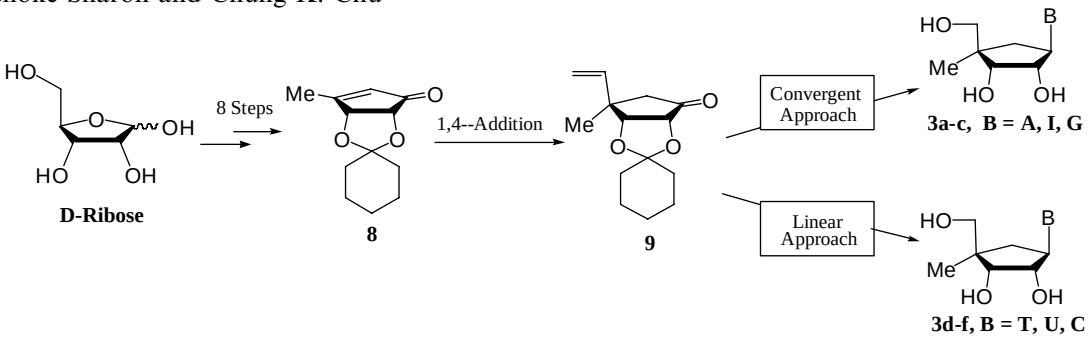












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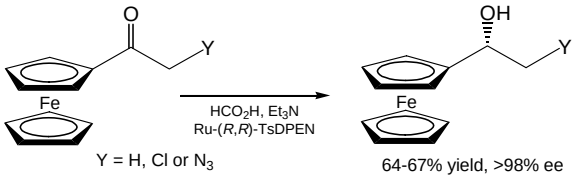
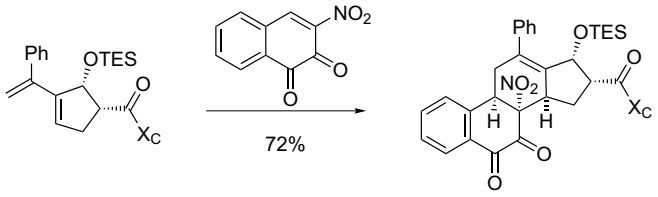
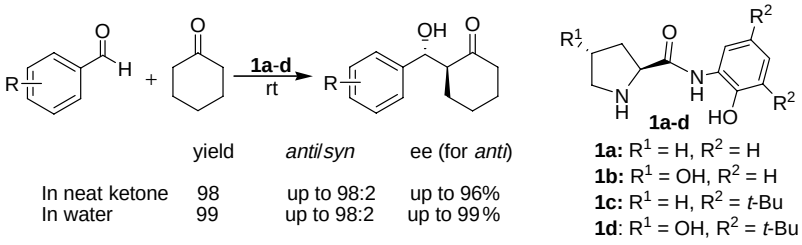
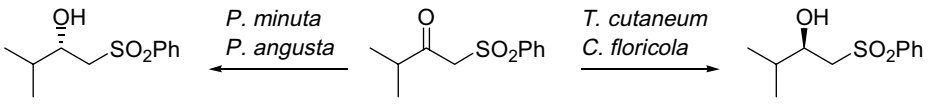
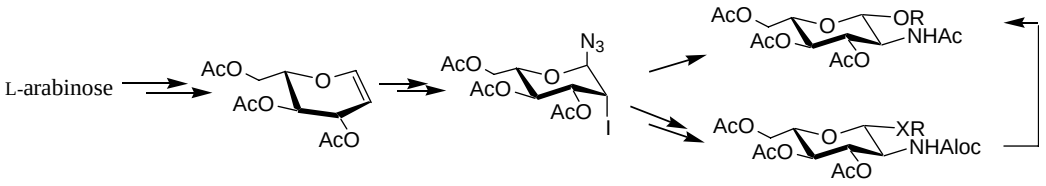


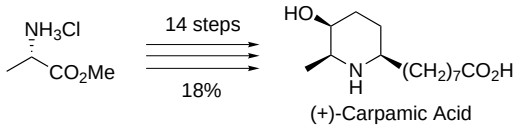


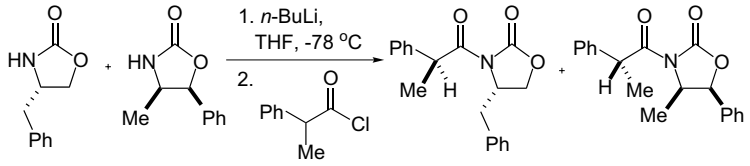


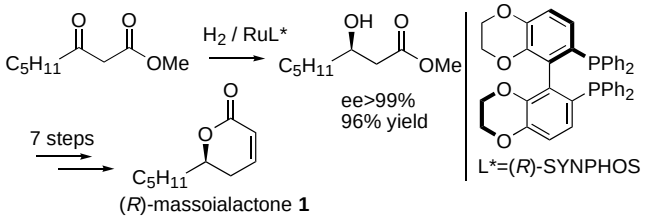
	yield	*anti*/*syn*	ee (for *anti*)
In neat ketone	98	up to 98:2	up to 96%
In water	99	up to 98:2	up to 99%

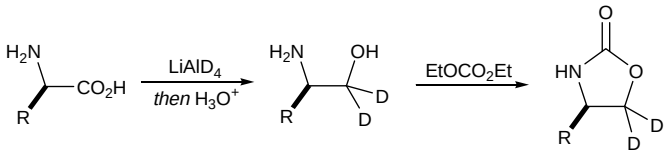


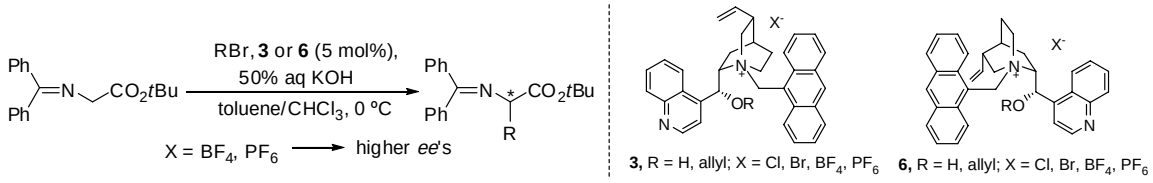


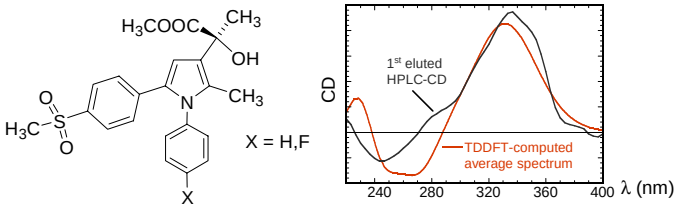












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