ELSEVIER

Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 19, No. 1, 2008

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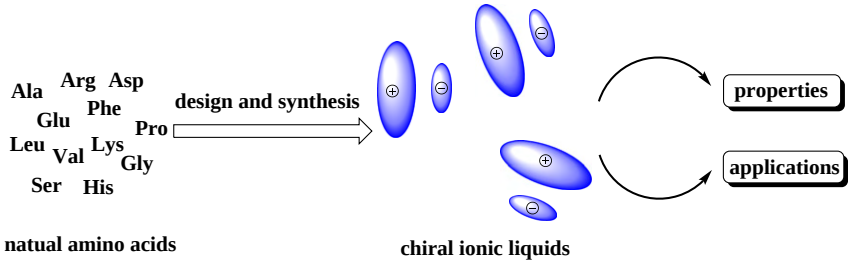

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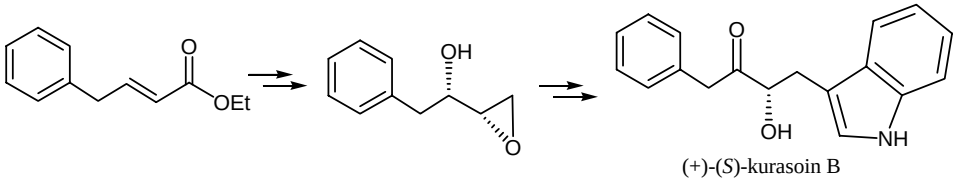
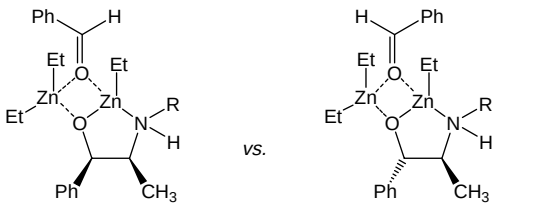
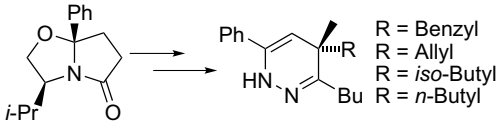


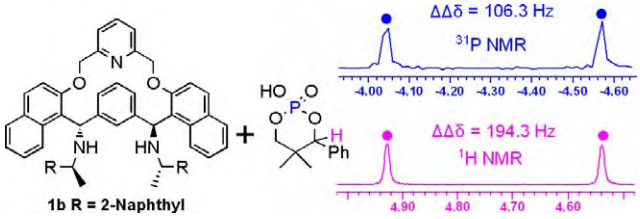
(+)-(*S*)-kurasoin B

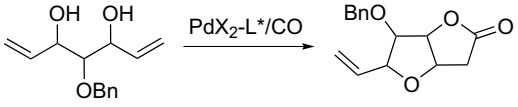
An efficient short enantioselective synthesis leading directly to (+)-(*S*)-kurasoin B has been achieved in 5 steps and 25% overall yield from (2*E*)-ethyl-4-phenylbut-2-enoate using Sharpless asymmetric dihydroxylation and CH_3NO_2-assisted or $Yb(OTf)_3$-catalyzed regioselective C-3 coupling of indole as the key steps.

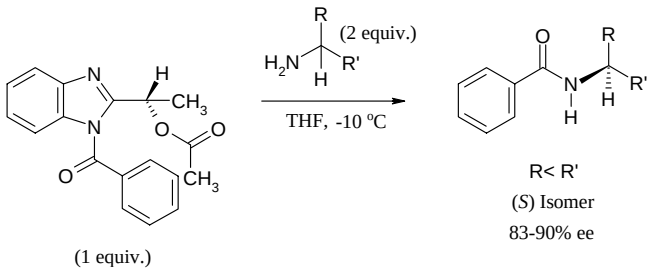


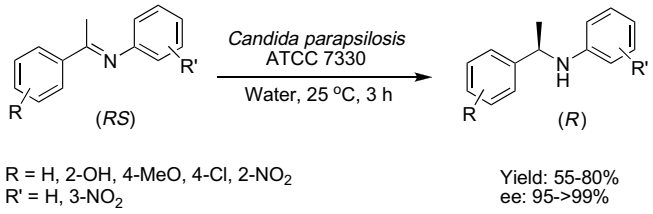
(1*R*,2*S*)-Norephedrine (1*S*,2*S*)-Pseudonorephedrine

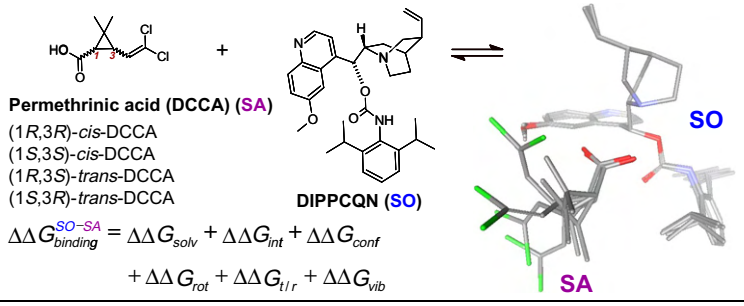


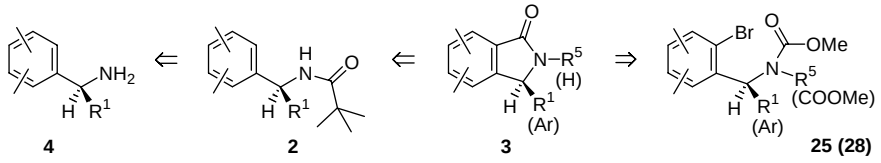


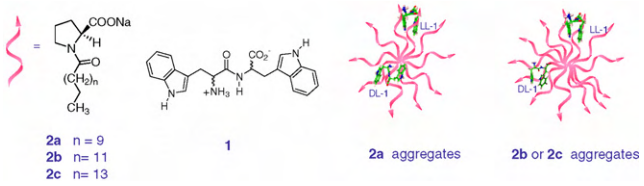












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Tetrahedron:
Asymmetry

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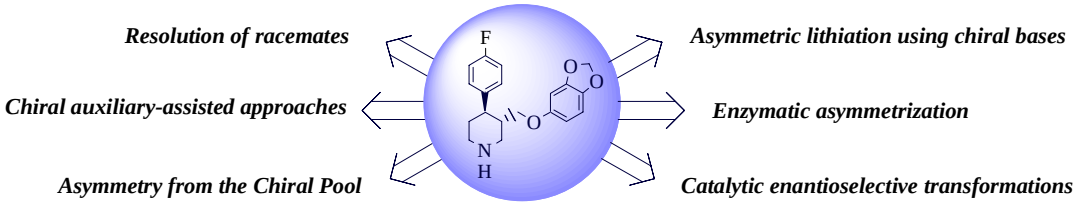

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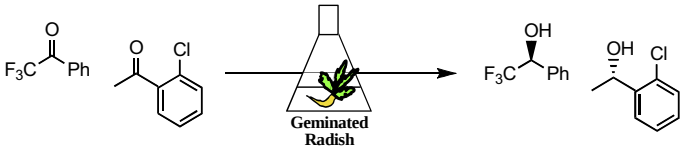

A germinated radish sprout from commercially available vegetable seeds was used as a novel type of biocatalyst for asymmetric reduction of ketones.

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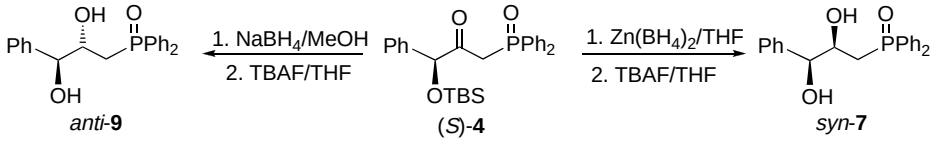

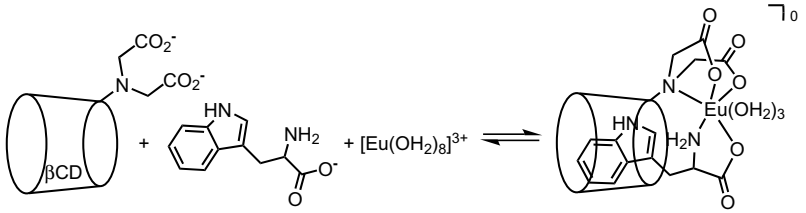

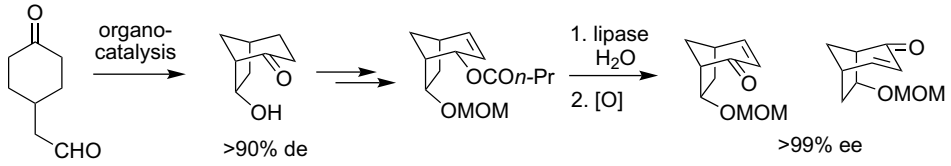

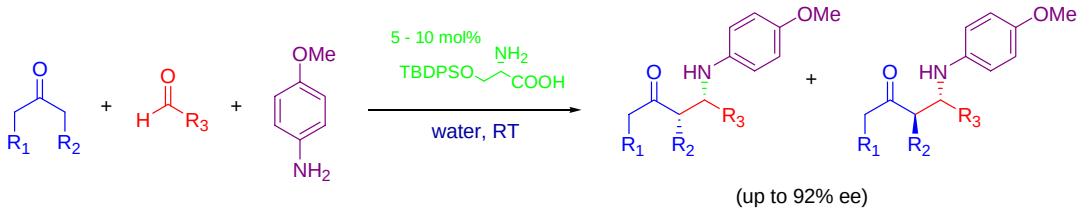

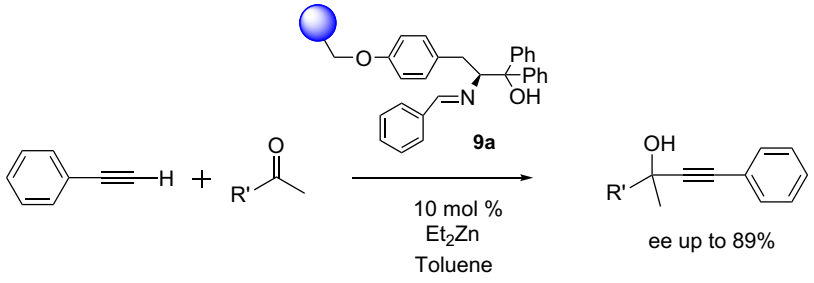

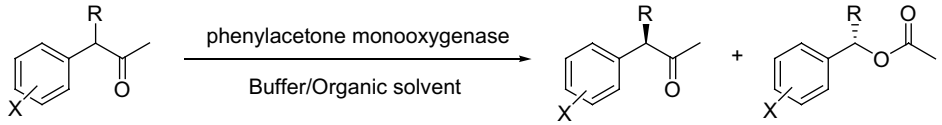

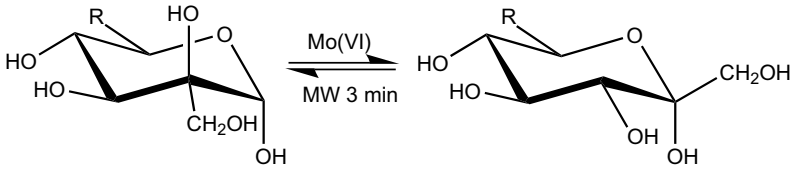

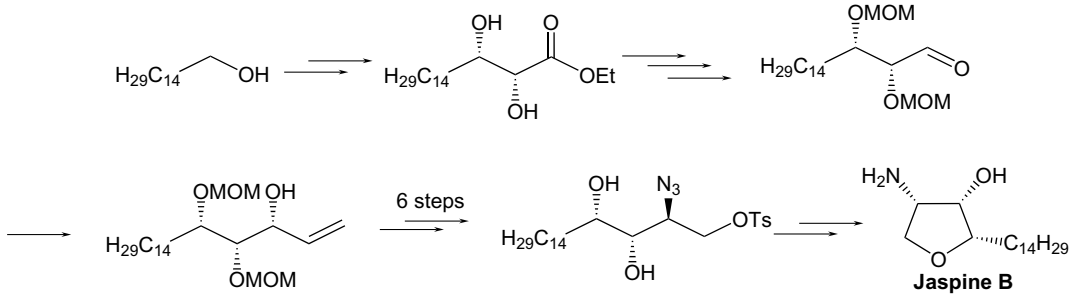

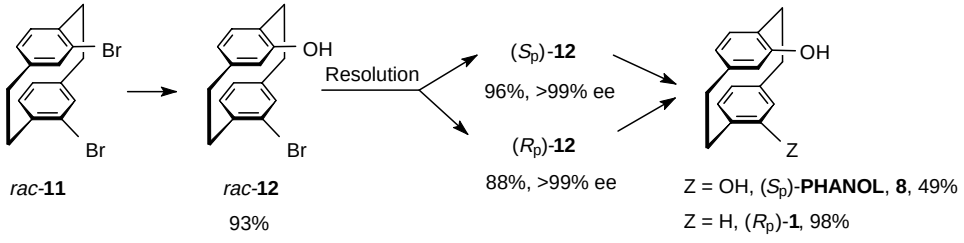

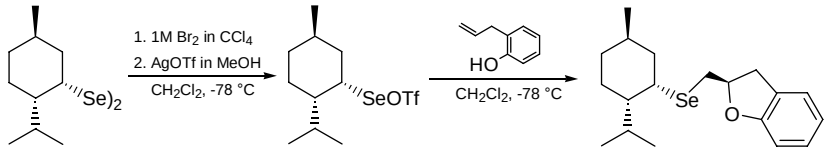

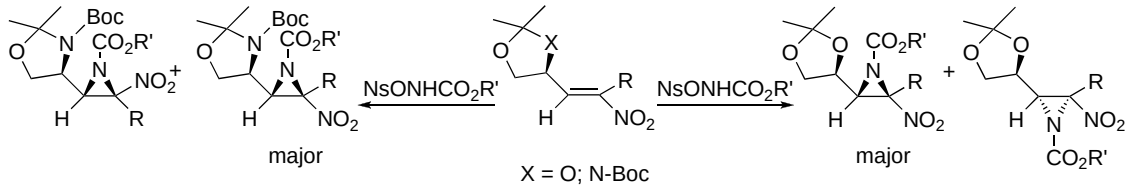

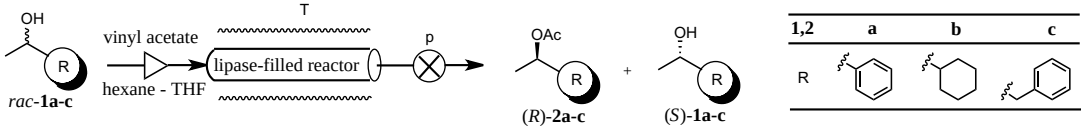

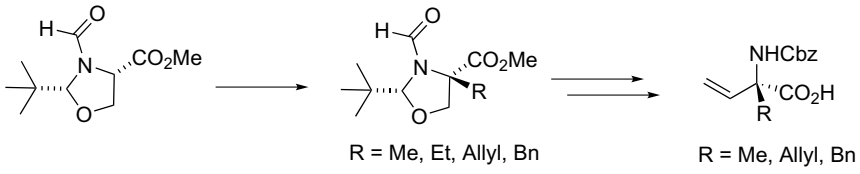

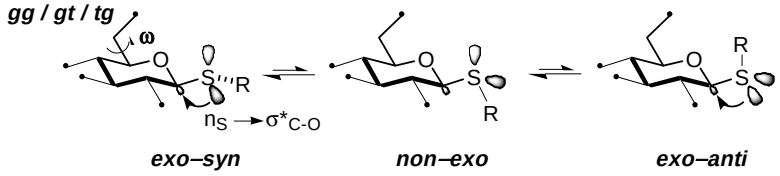

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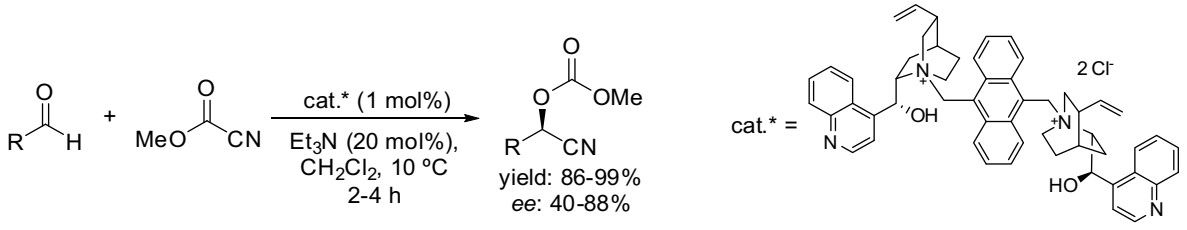

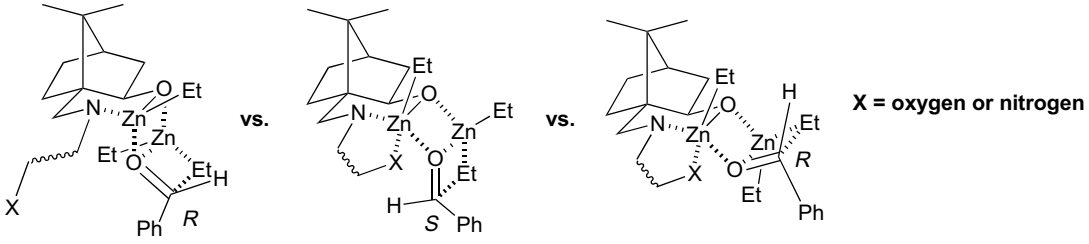

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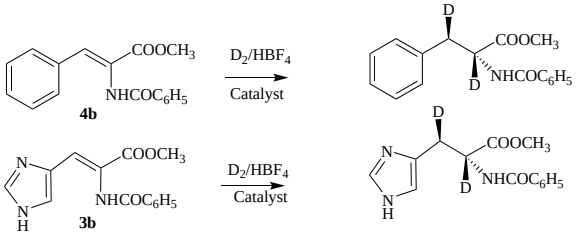

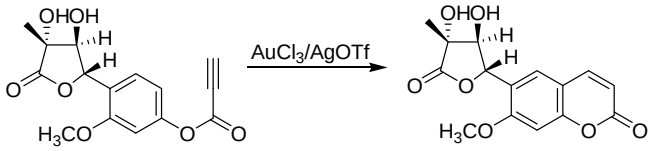

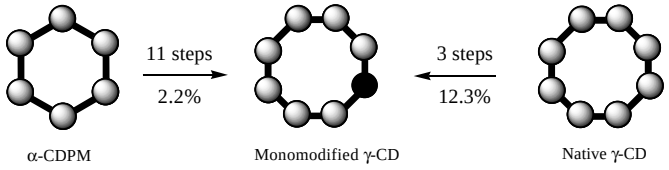

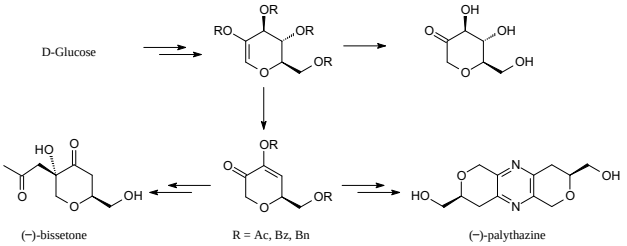

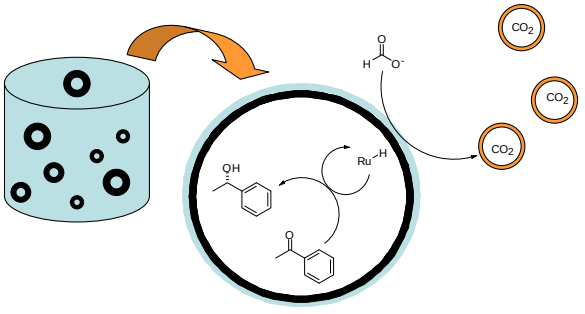

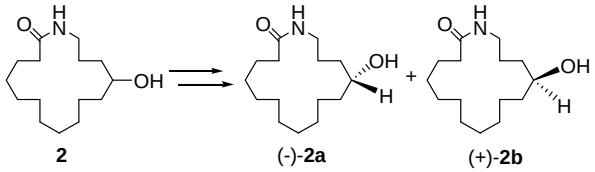

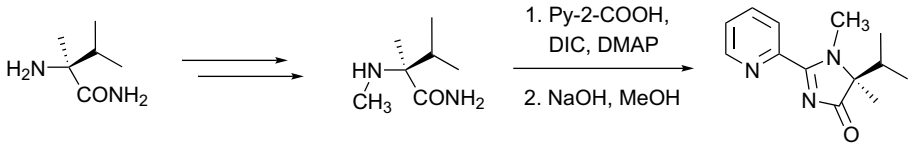

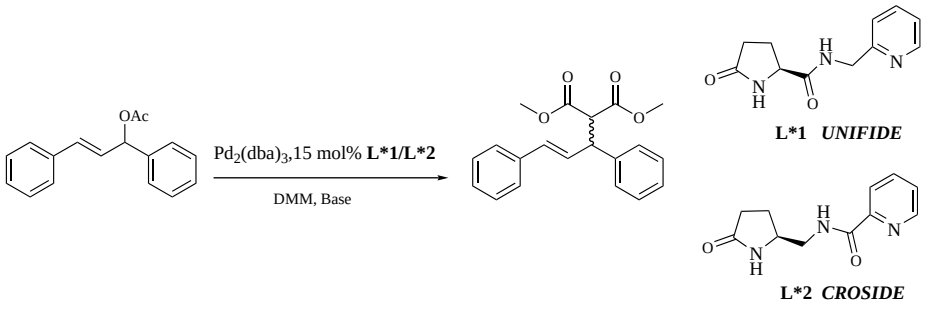

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Asymmetry

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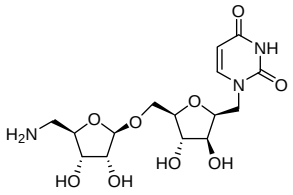
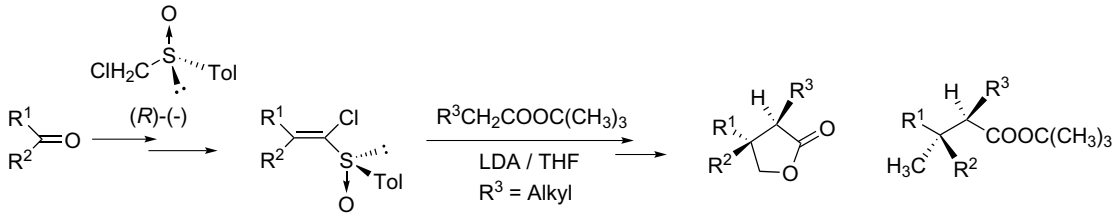


The synthesis of a powerful inhibitor of the bacterial translocase MraY (81% inhibition at 2 mM) is described.



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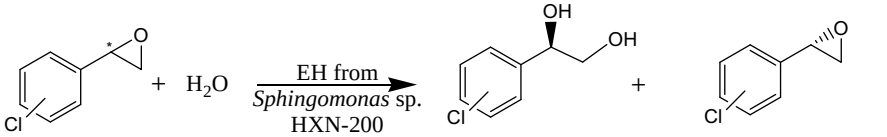
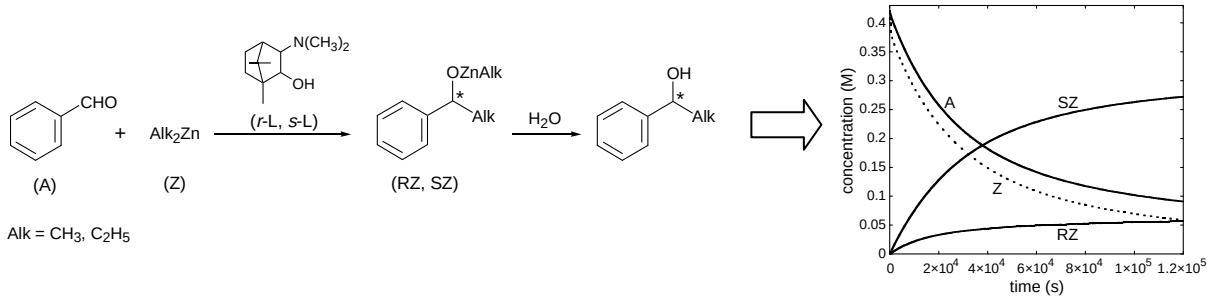
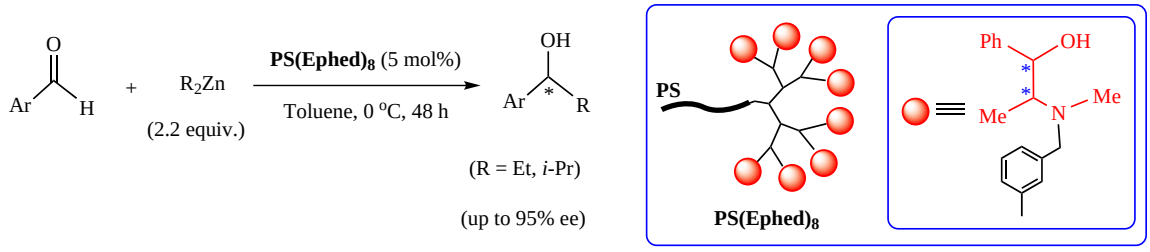


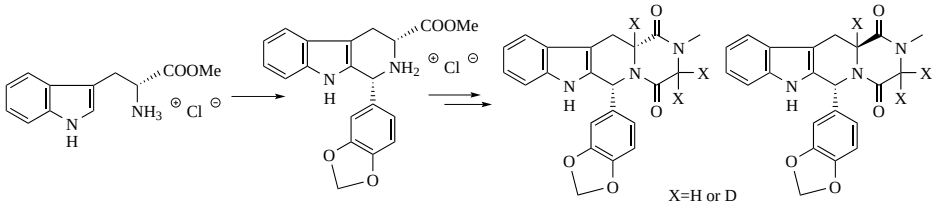
1: 2-Cl
2: 3-Cl
3: 4-Cl

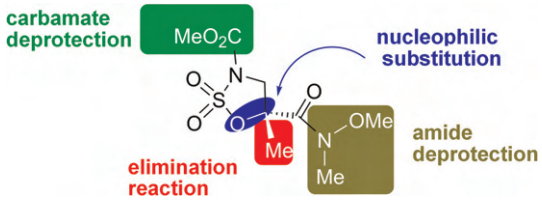
4: 2-Cl
5: 3-Cl
6: 4-Cl

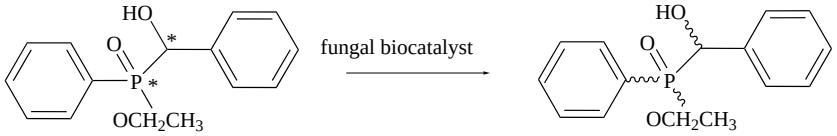
***(S)*-1**:98.8% ee, 31.3%; E of 12
***(S)*-2**:99.0% ee, 44.0%; E of 41
***(S)*-3**:98.6% ee, 30.8%; E of 11





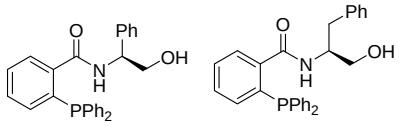


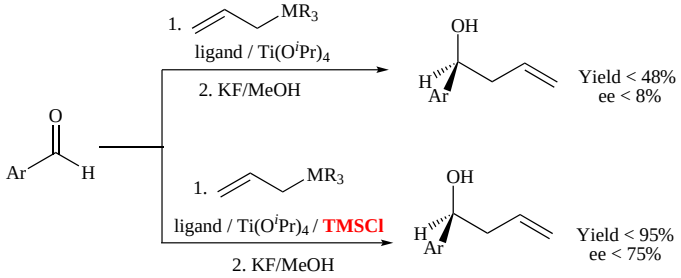


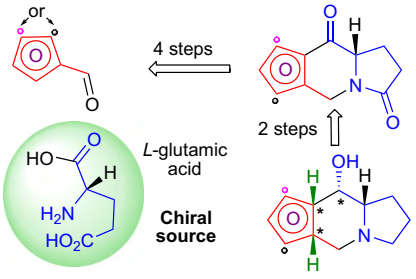


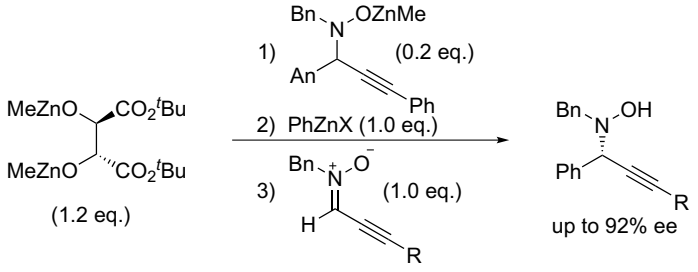
ethyl hydroxy(phenyl)methane(P-phenyl)phosphinate racemic mixture

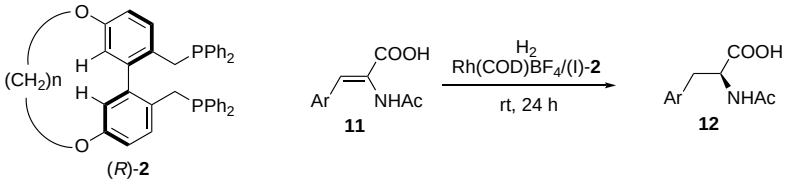
ethyl hydroxy(phenyl)methane(P-phenyl)phosphinate

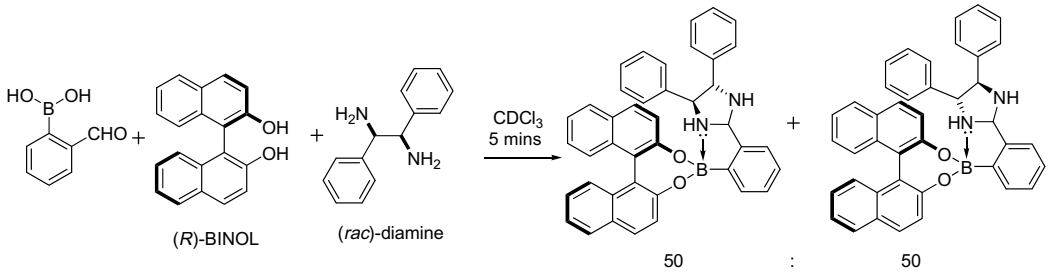


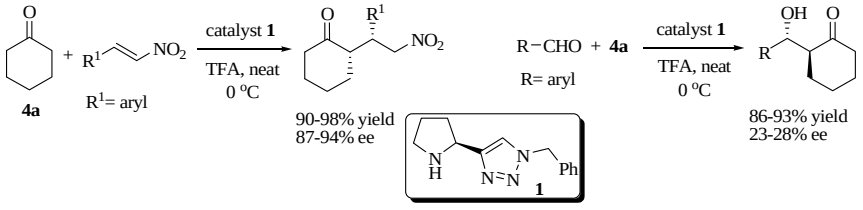


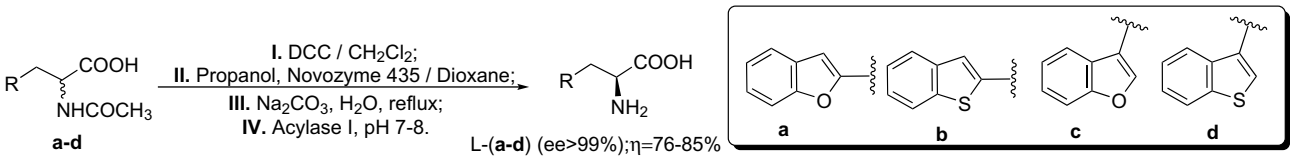


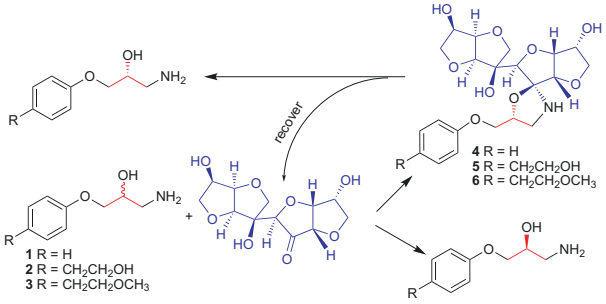












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Asymmetry

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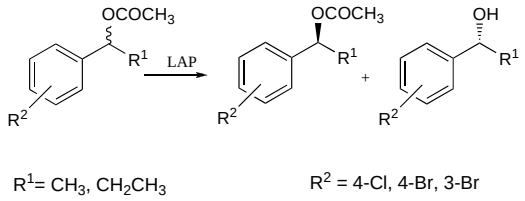
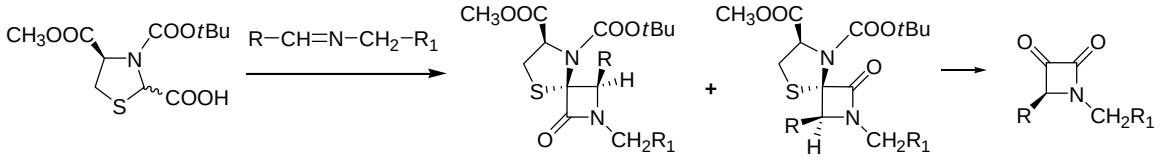
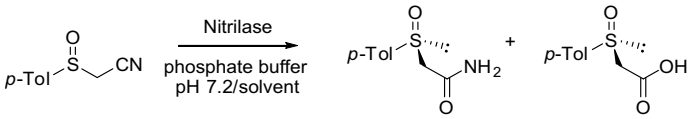
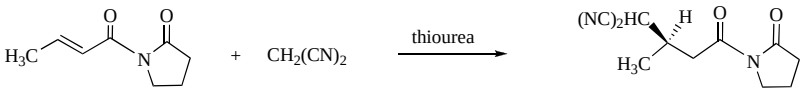
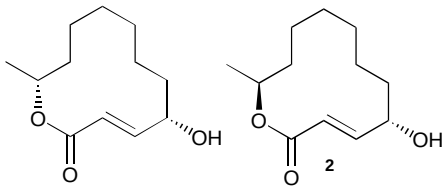




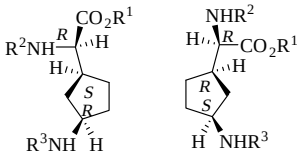




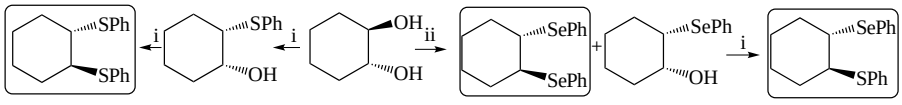


Patulolide **C** 11-Epipatulolide **C**

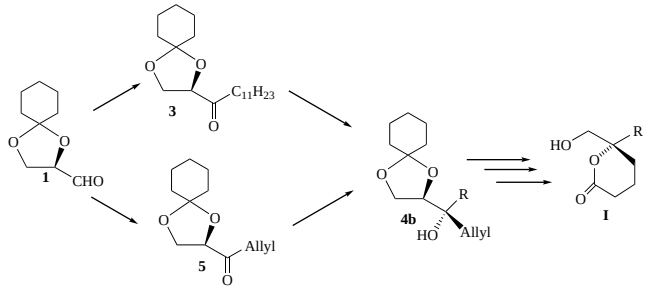
Total synthesis of patulolide C and 11-epipatulolide C from 1,8-octane diol is reported.

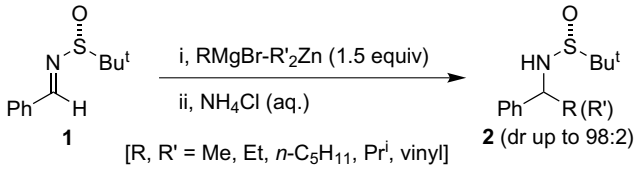


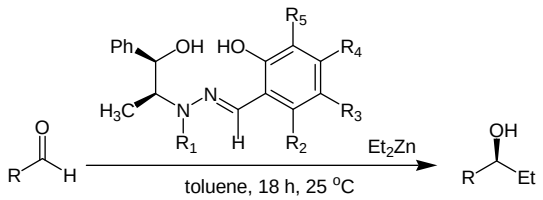
R^1= H, Et;
R^2= H, -COPh;
R^3 = H, Boc, CO_2Et, CON_3, $CONH_2$, CONHPMB

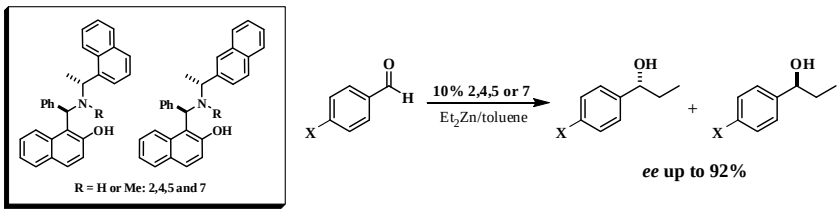


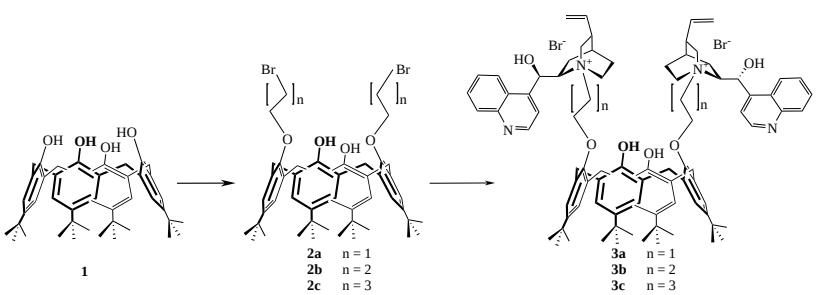
i = $(PhS)_2$, Bu_3P
ii = PhSeCN, Bu_3P

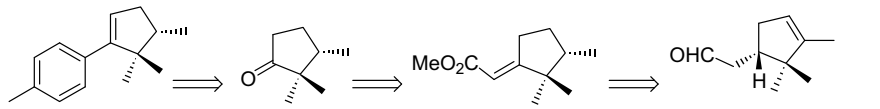




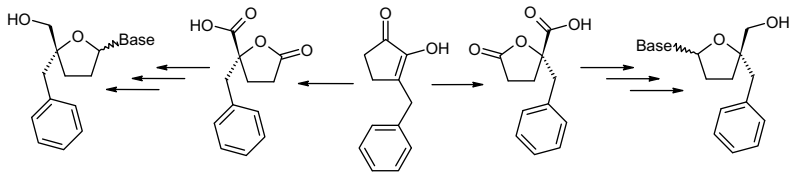




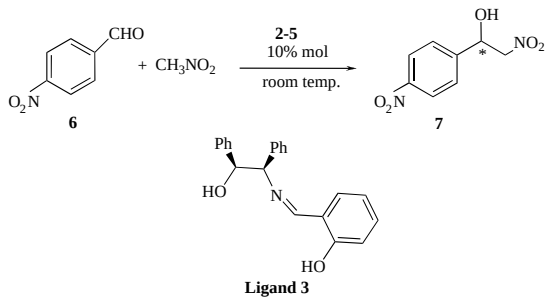




laurokamurene B (*S*)-campholenaldehyde



Asymmetric oxidation in a gram scale yield; 77%, *ee* ≥ 96%
Base=adenine, thymine; yield up to 61% from lactone acid.



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Tetrahedron:
Asymmetry

Tetrahedron: *Asymmetry* Vol. 19, No. 6, 2008

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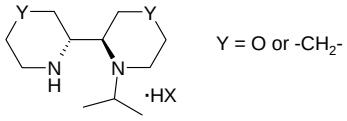
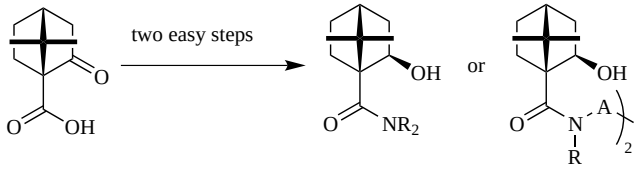
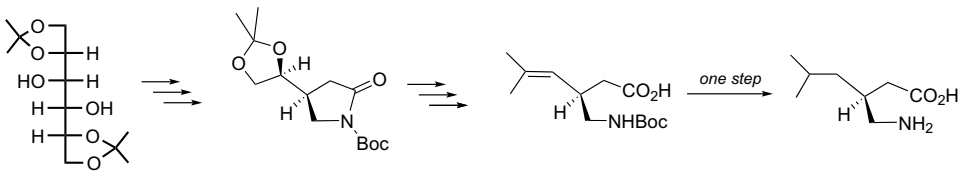


Biomorpholine based catalysts (Y = O) were found to be more efficient and reactive than bipiperidine derivatives (Y = $–CH_2–$) in intramolecular and intermolecular aldol reactions.



Chiral ligands for the enantioselective diethylzinc addition to benzaldehyde in absence of titanium (up to 90% ee). R and A = alkyl chains.



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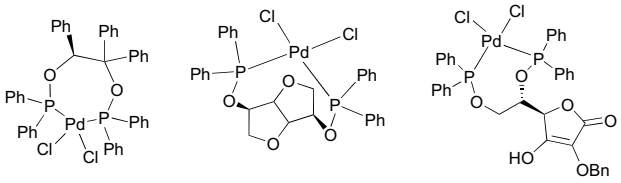
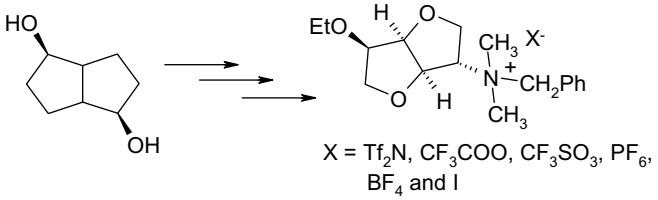
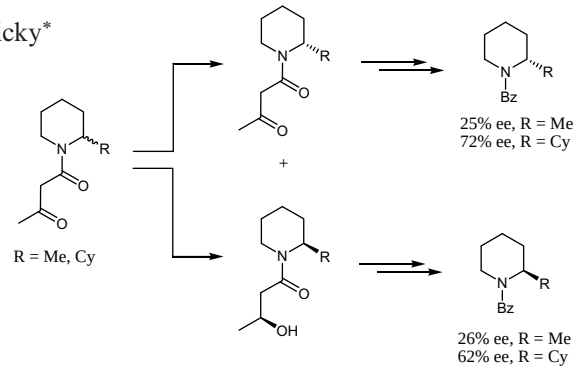
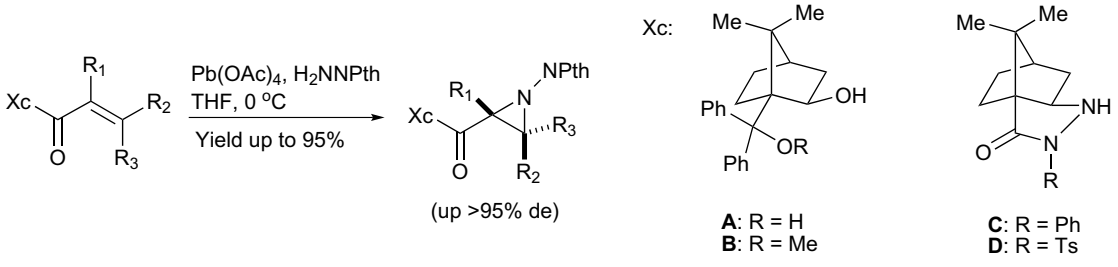
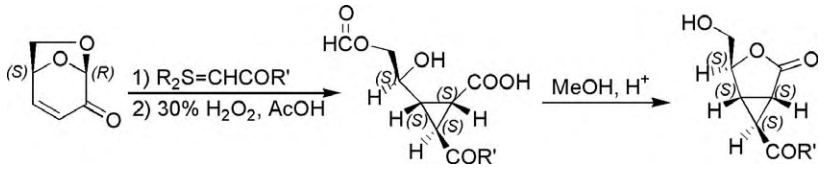
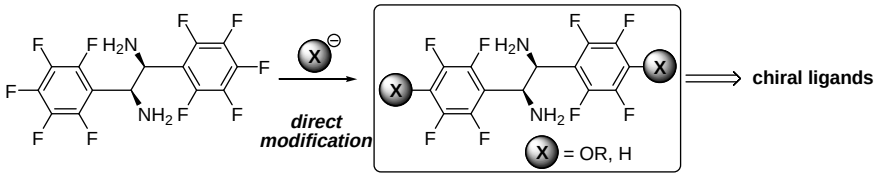


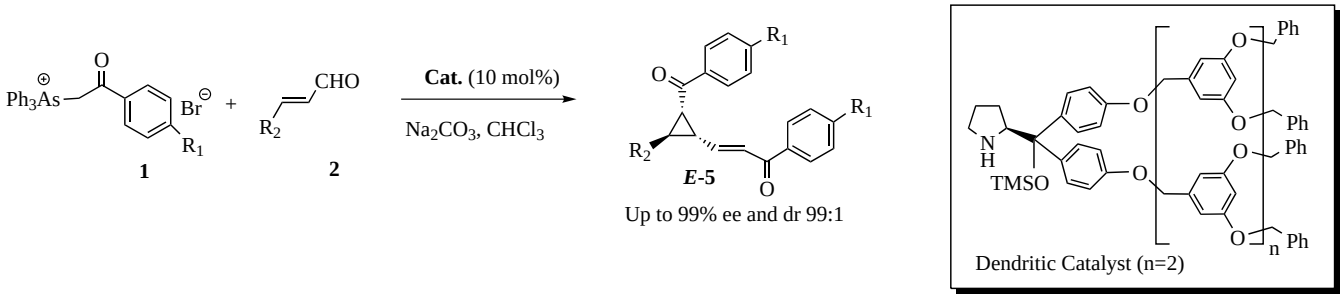


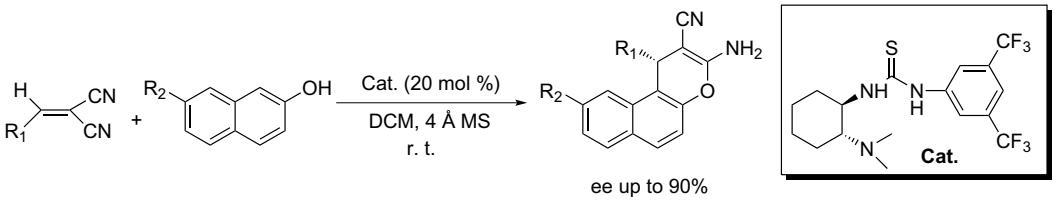


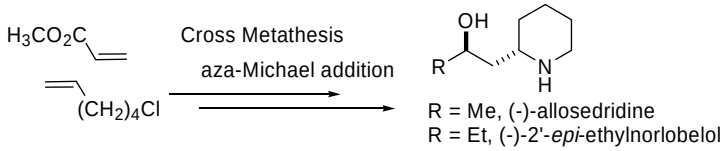


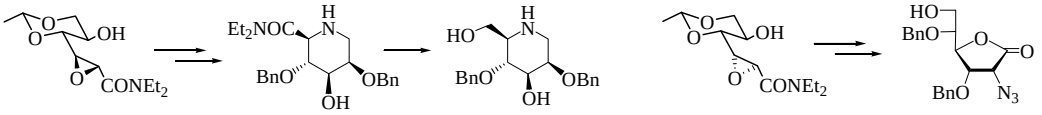


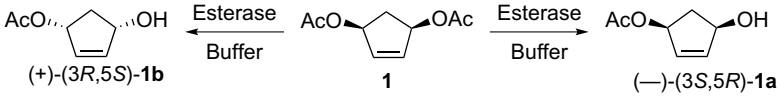


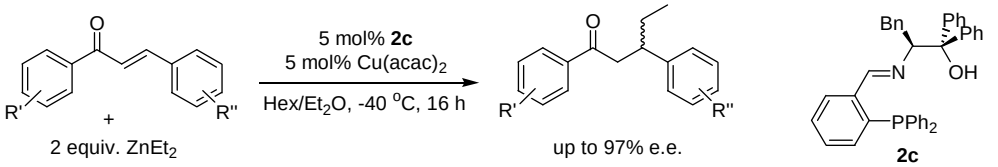


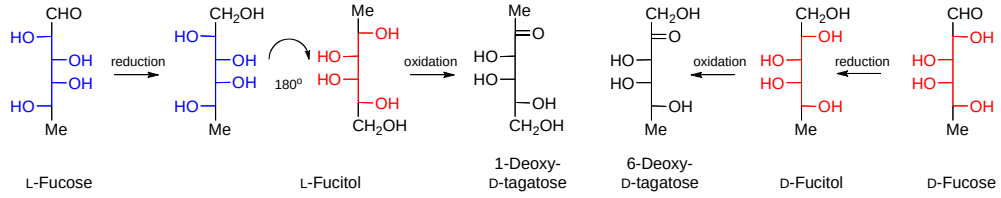




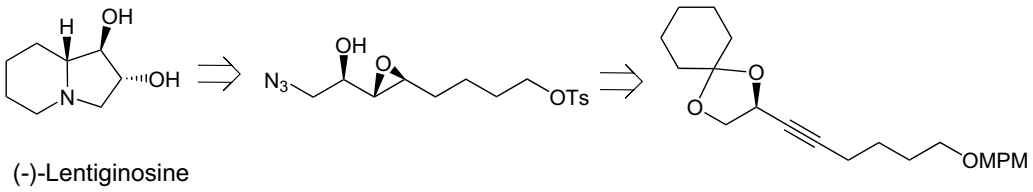




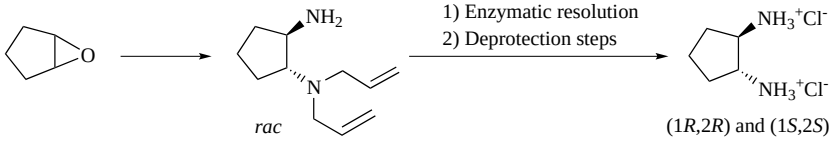




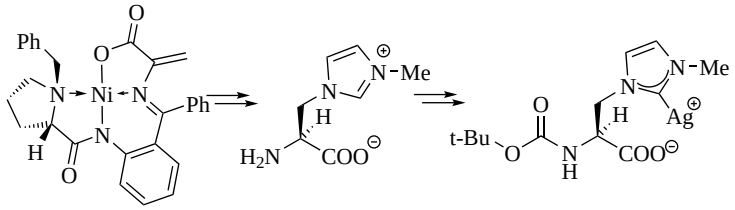
Enterobacter agglomerans strain 221e recognizes D-galacto - rather than L-galacto - structural motif

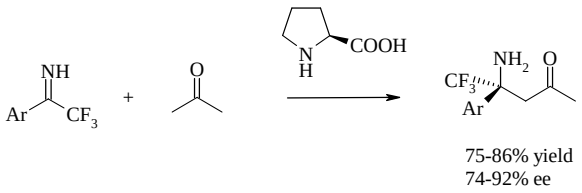


(-)-Lentiginosine



(1*R*,2*R*) and (1*S*,2*S*)
ee > 97%





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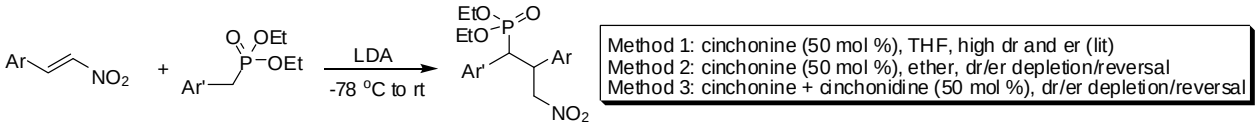

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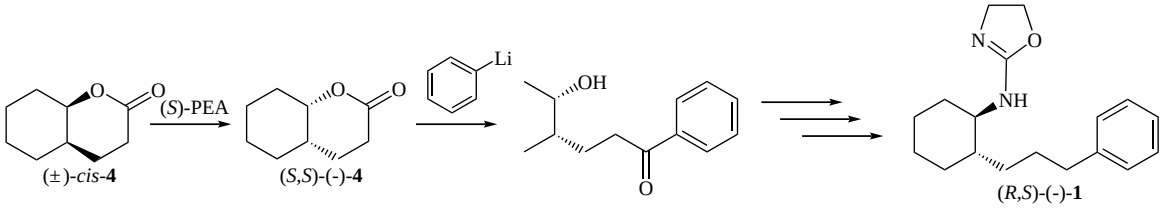
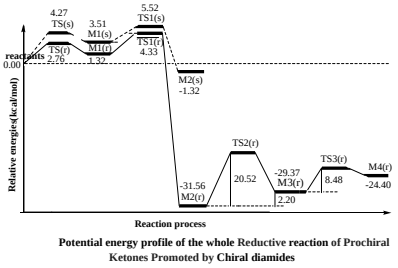
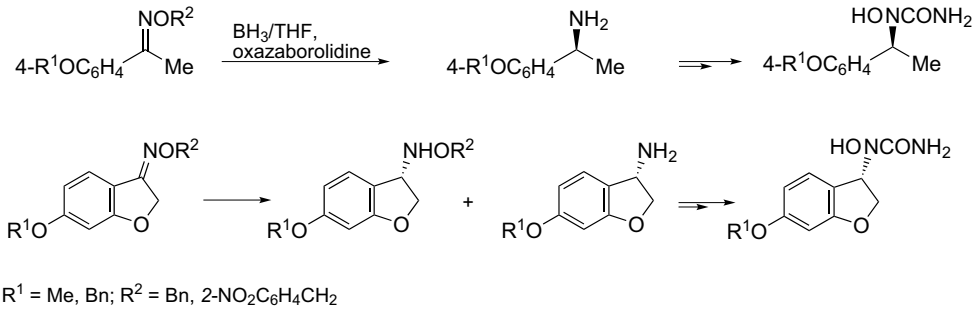
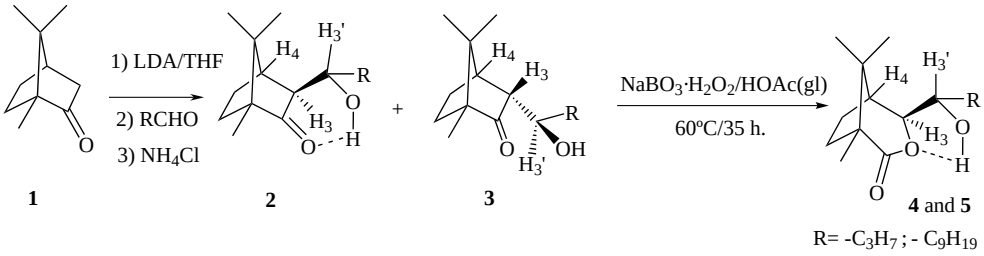
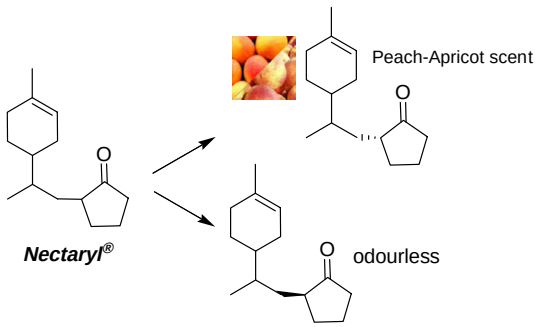


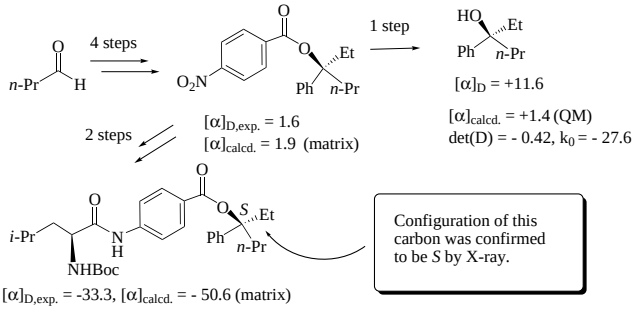


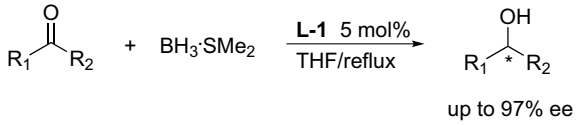
Potential energy profile of the whole Reductive reaction of Prochiral Ketones Promoted by Chiral diamides

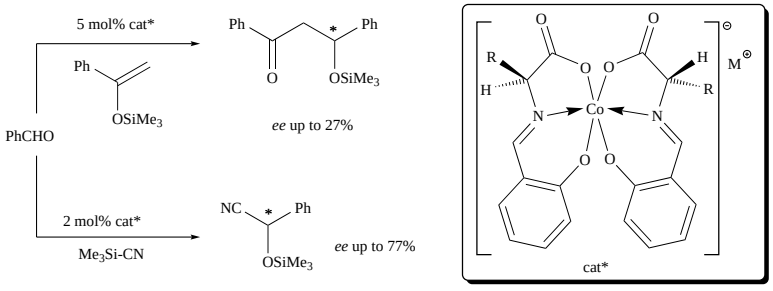


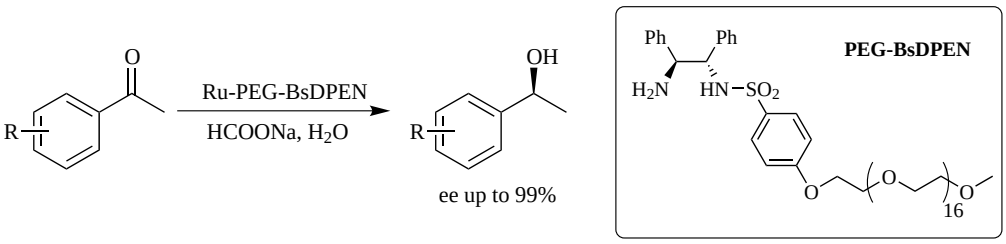


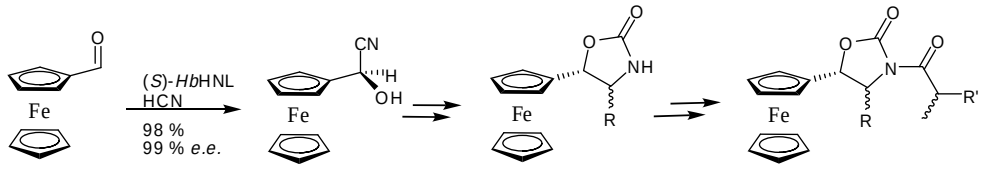


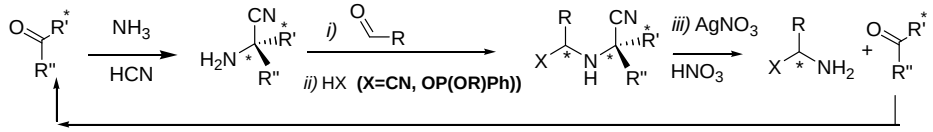


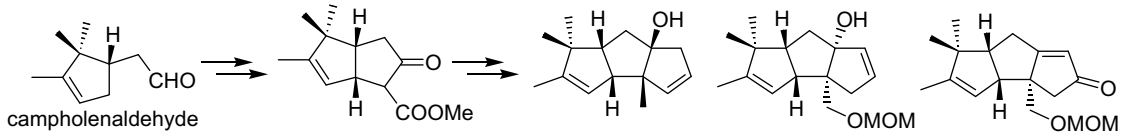












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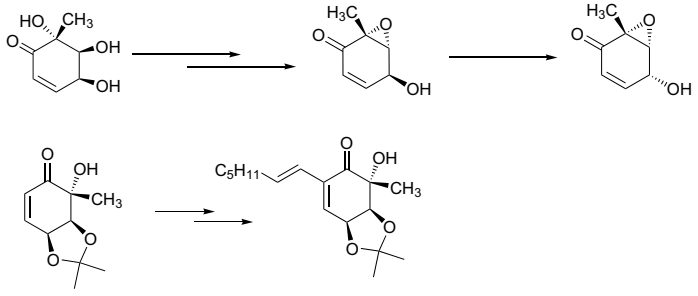

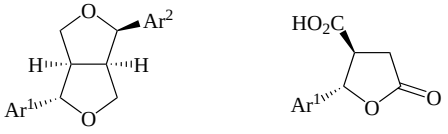

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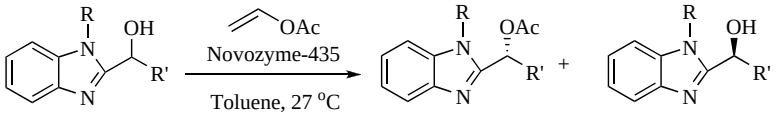
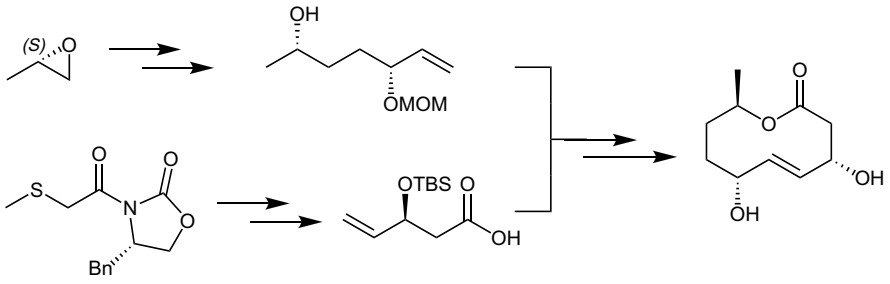
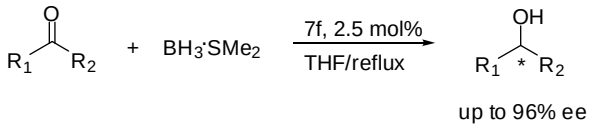
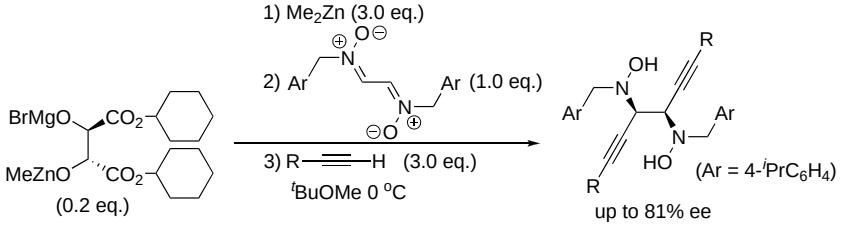
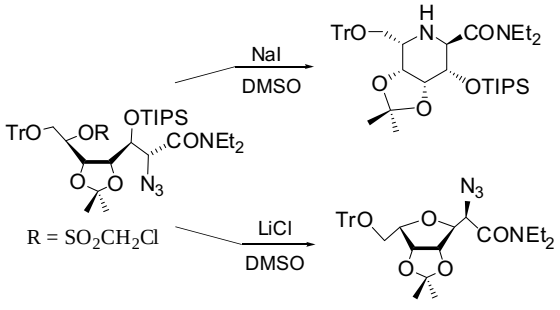


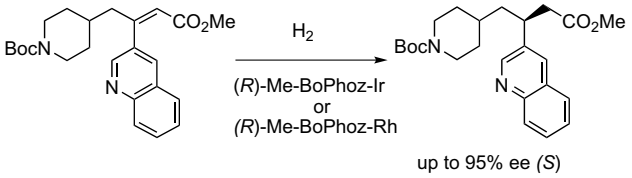
rac-**1-6** (*R*)-**1a-6a** (*S*)-**1-6**

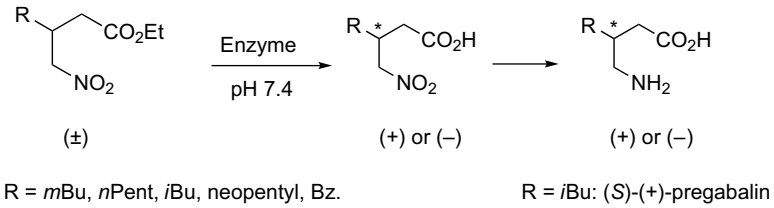


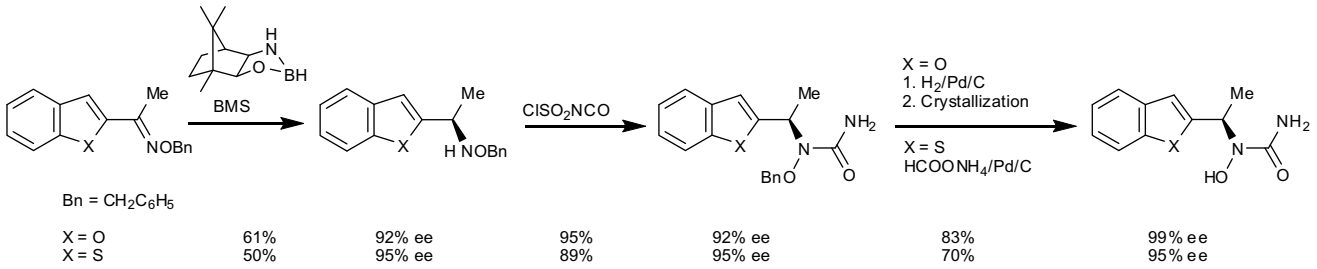


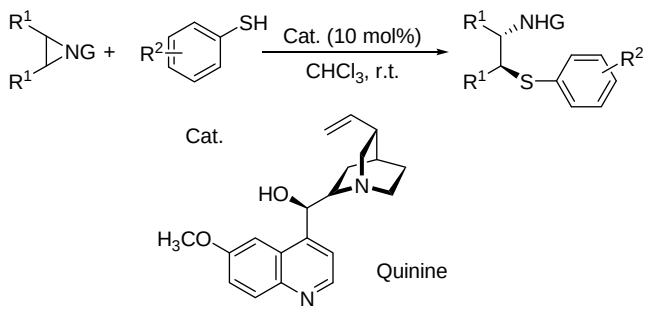


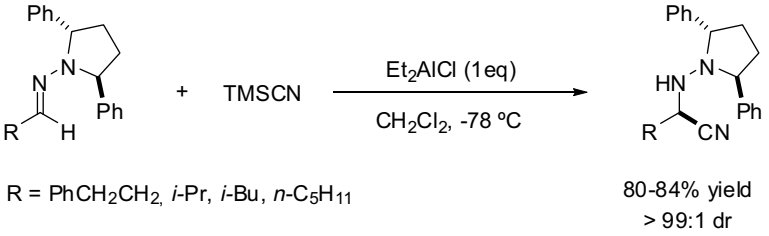


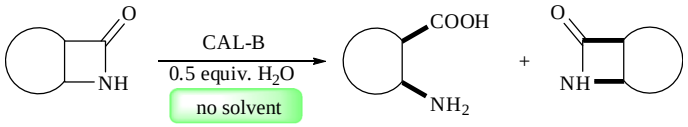


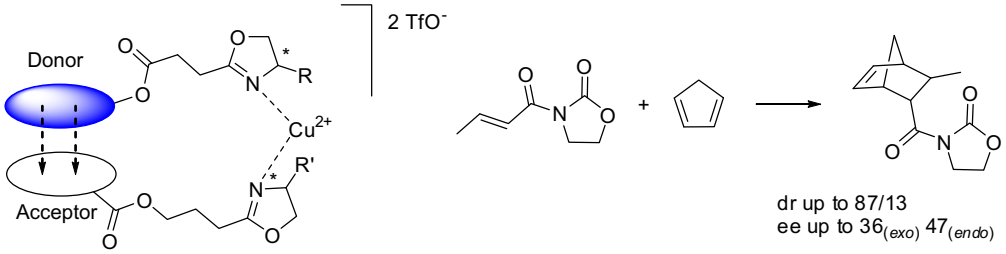


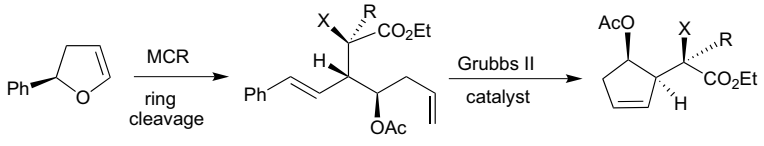












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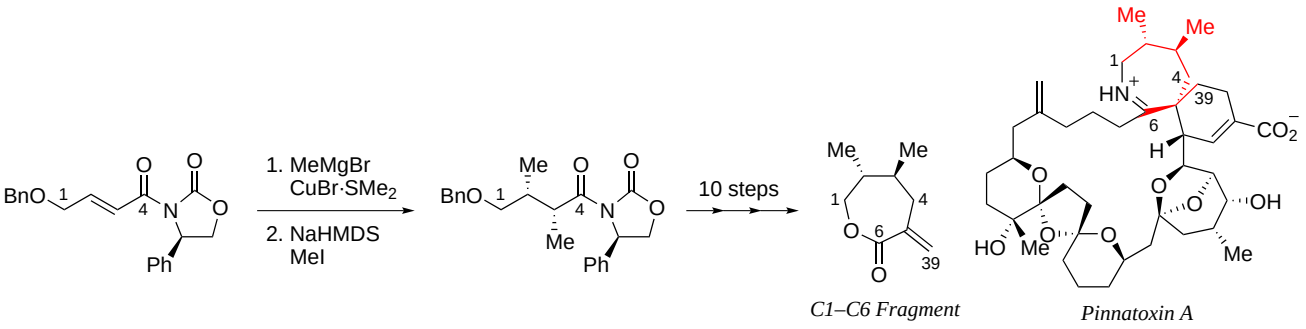

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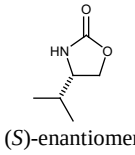

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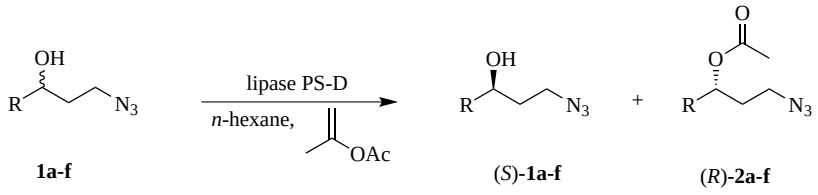
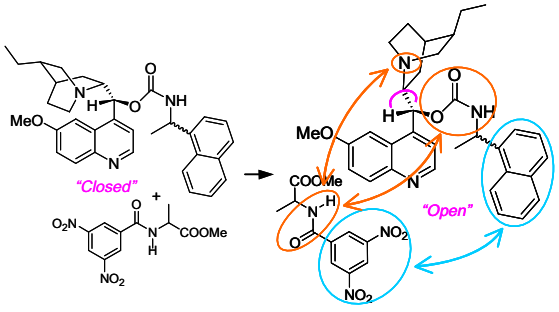
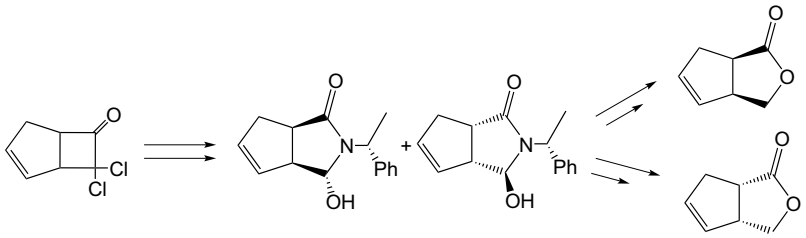
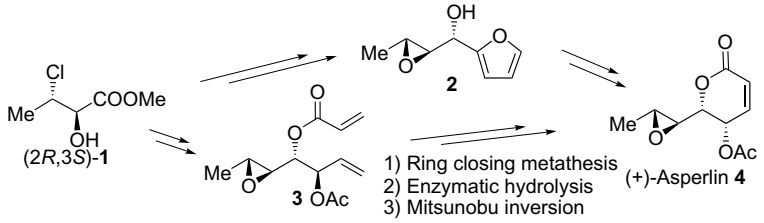
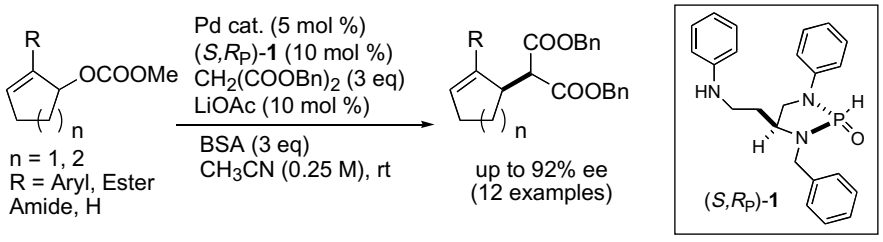
$[\alpha]_D^{26}$=−16.1 (*c* 5.2, EtOH)

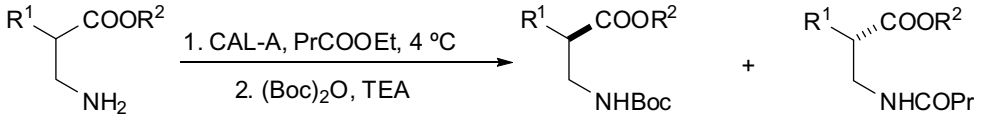












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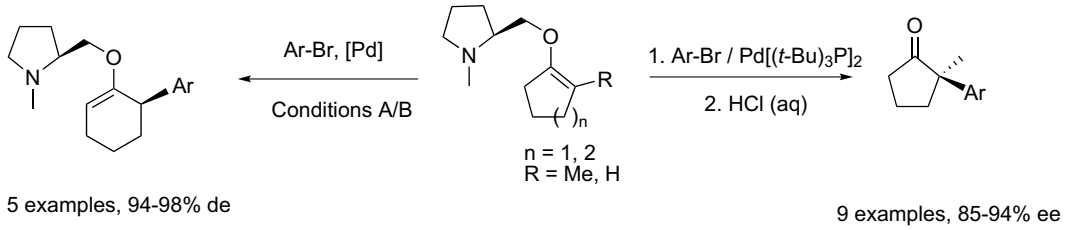

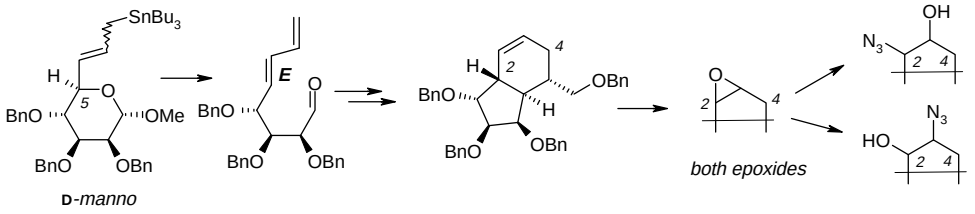

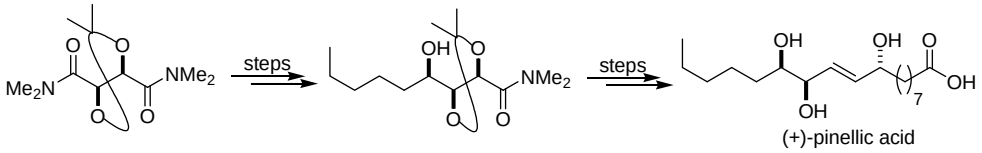

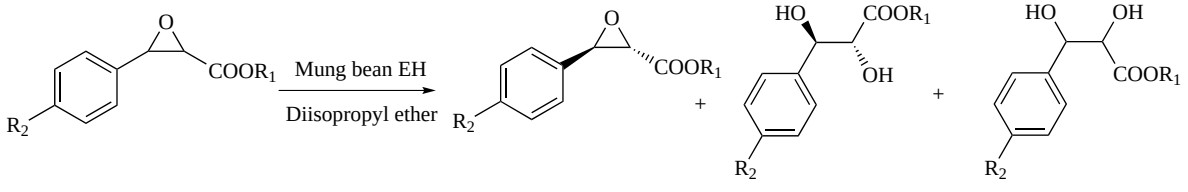

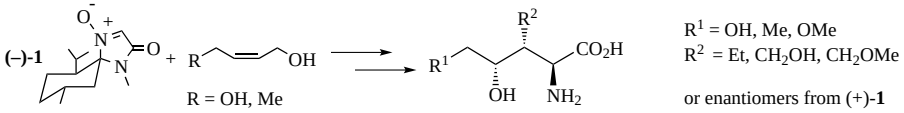

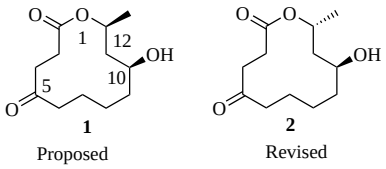

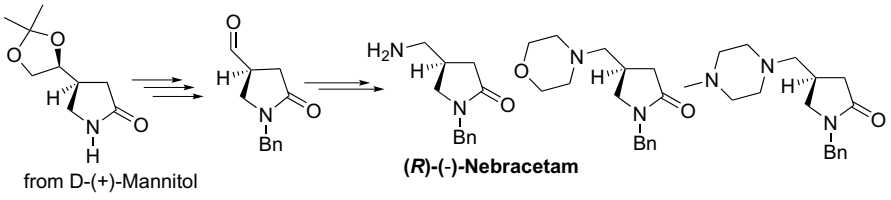

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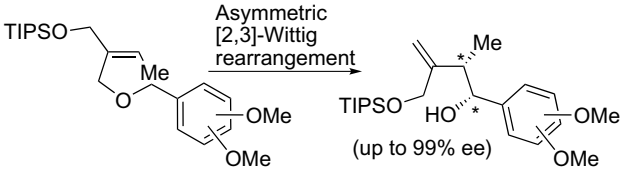

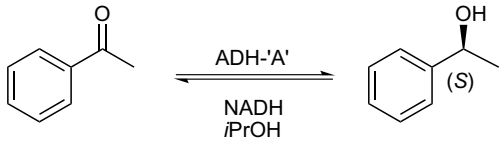

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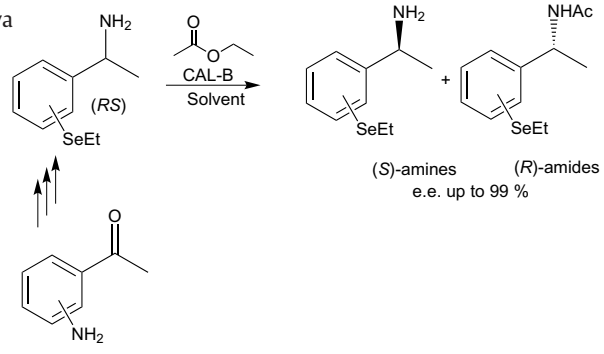

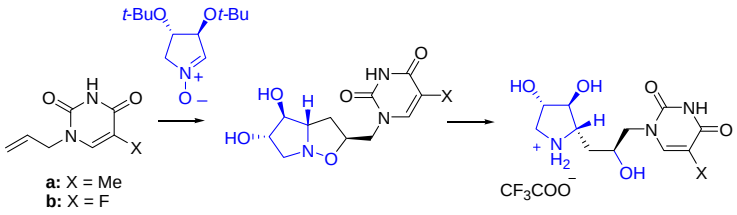

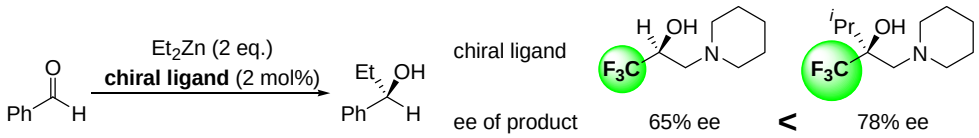

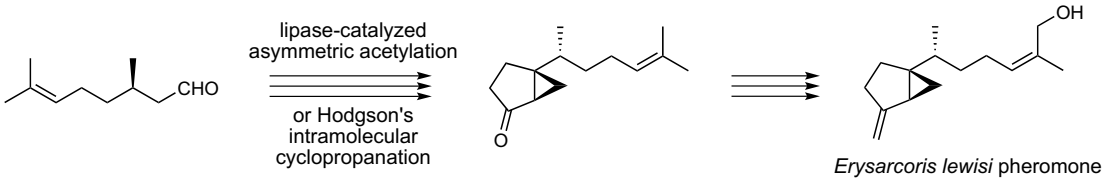

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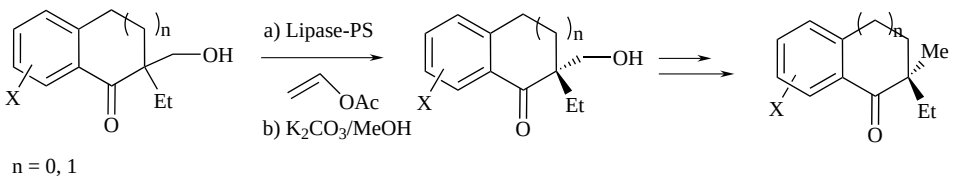

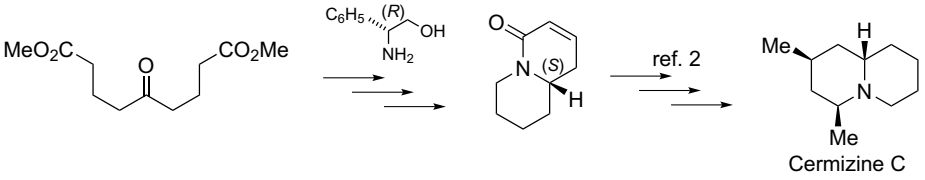

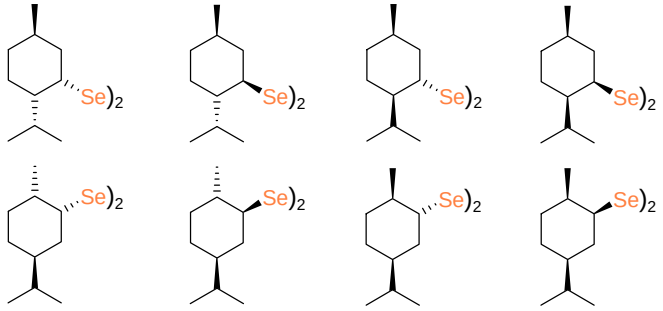

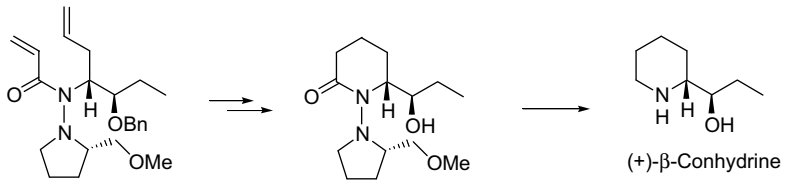

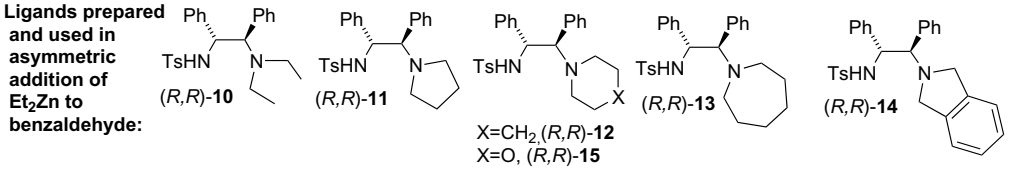

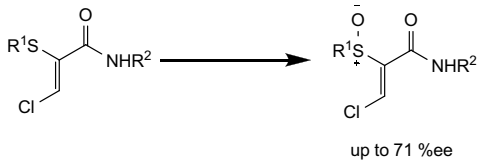

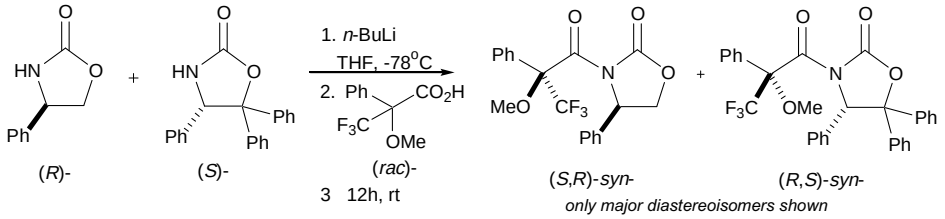

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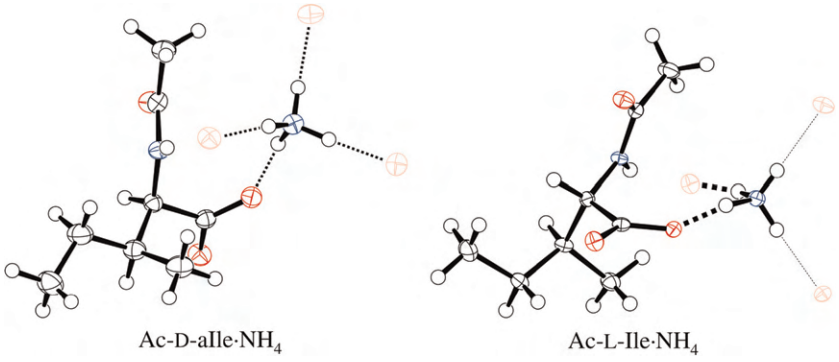

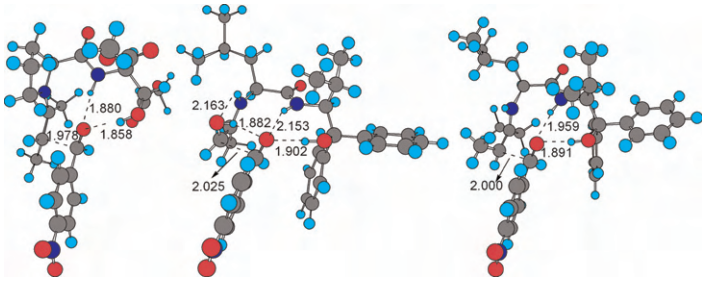

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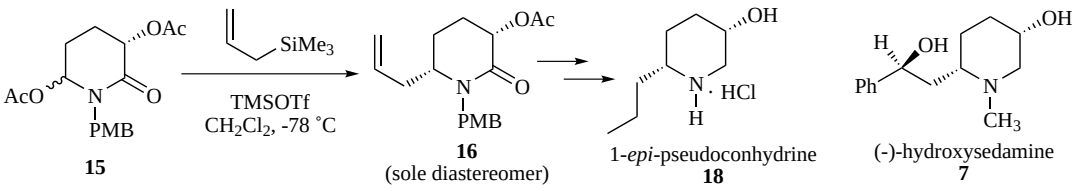

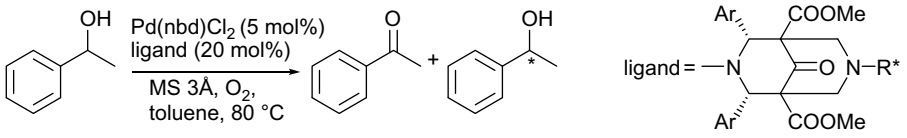

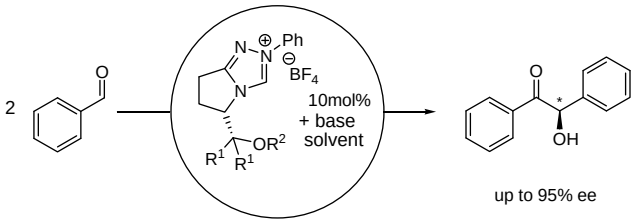

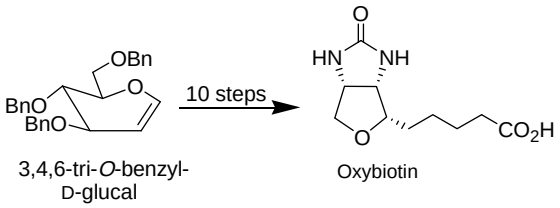

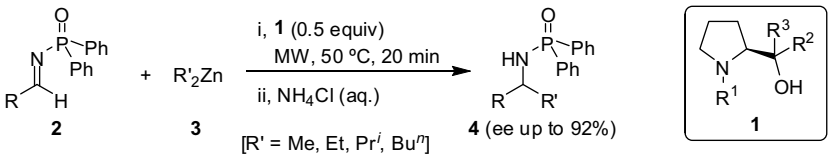

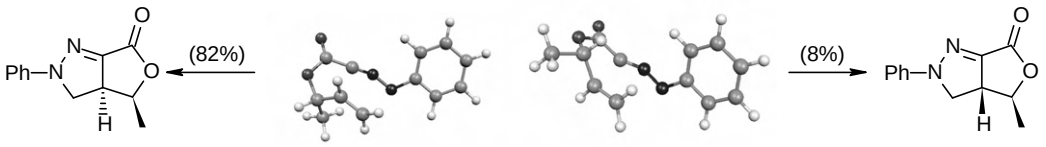

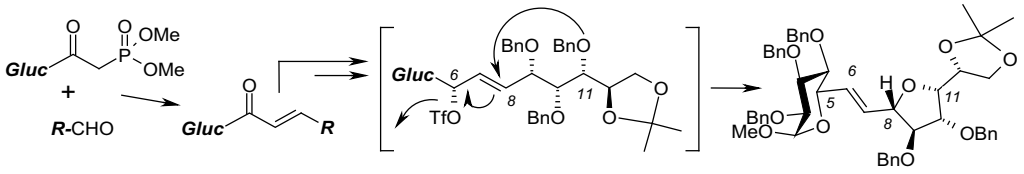

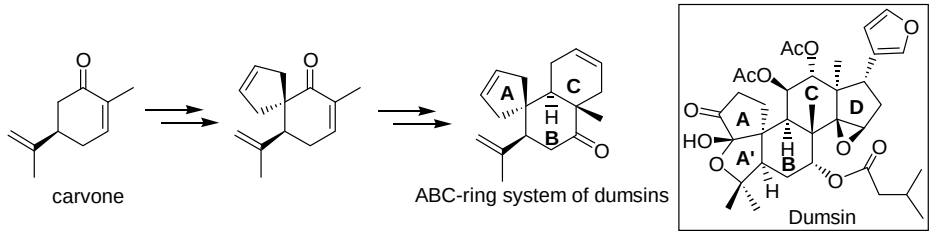

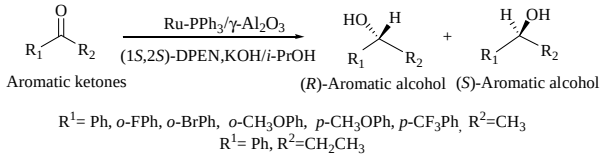

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R^1= Ph, R^2=CH_2CH_3

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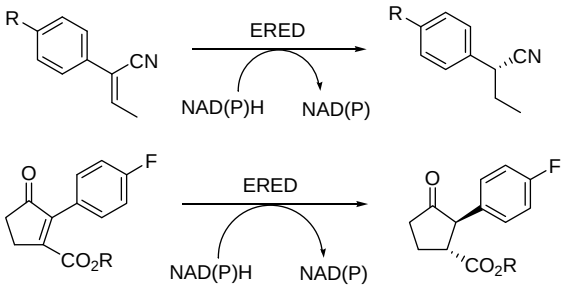

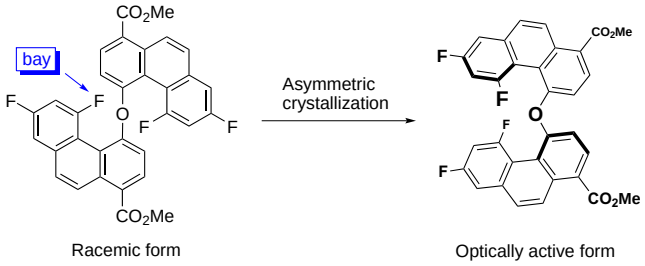

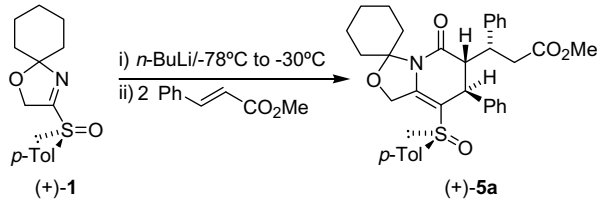

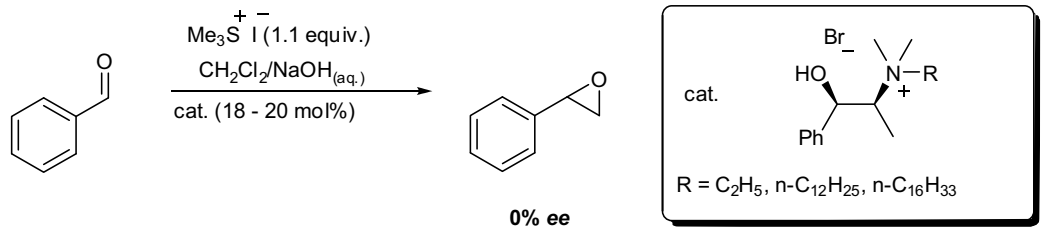

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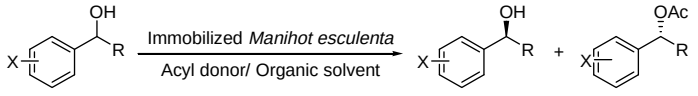
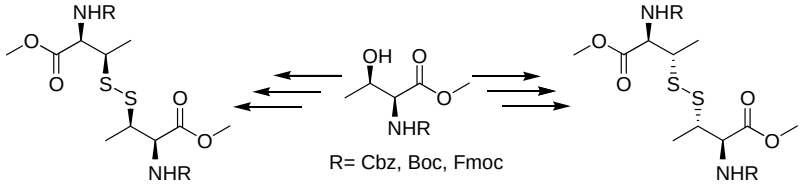
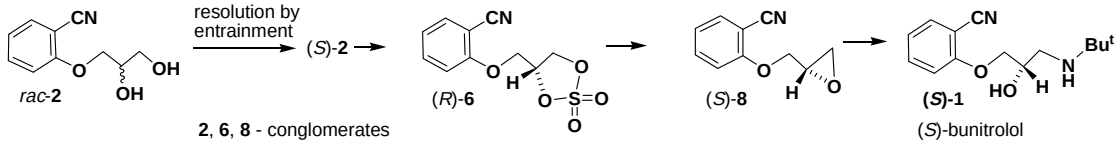
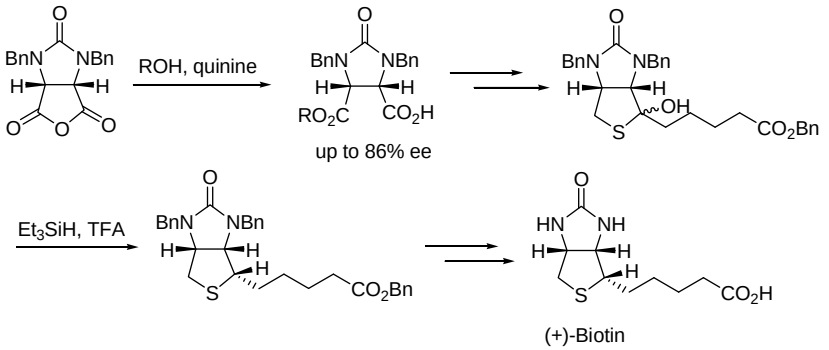
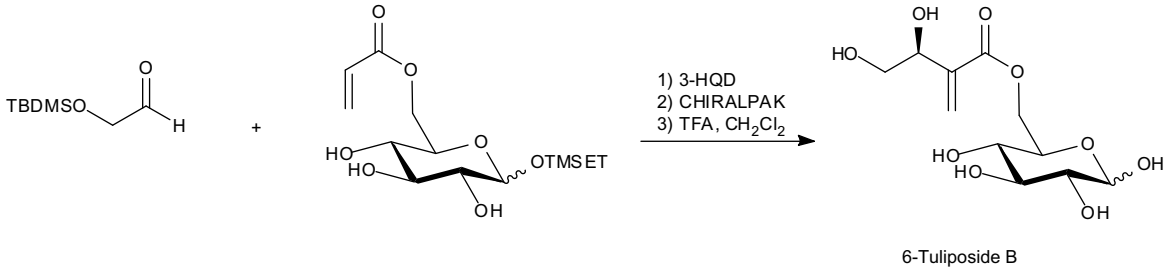
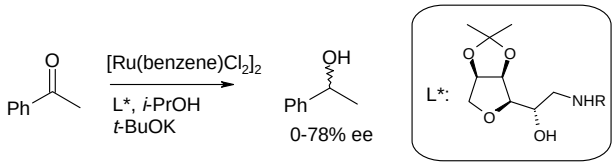


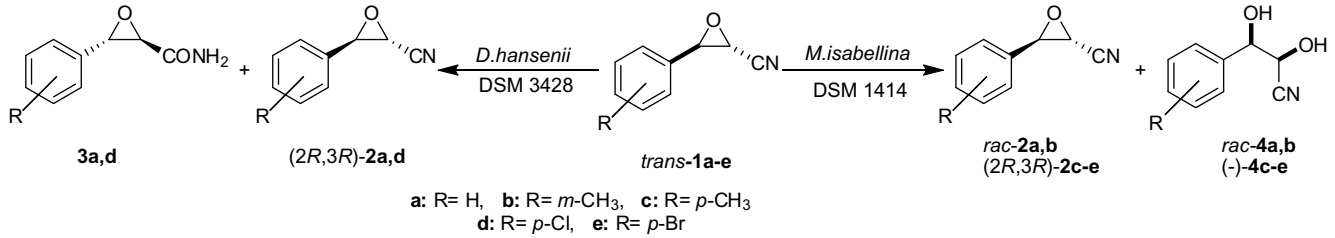




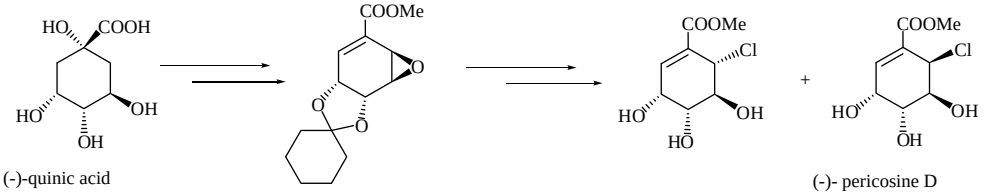


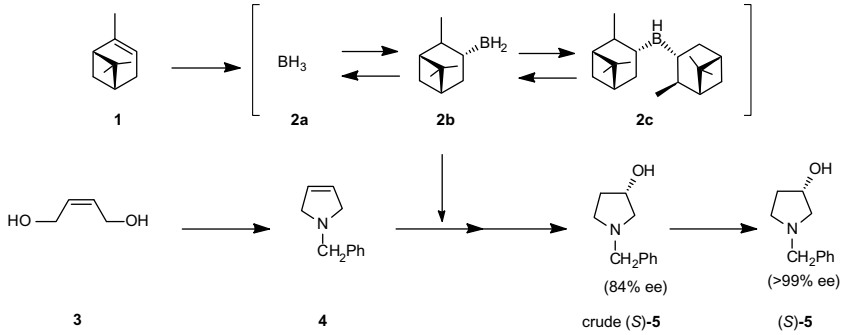


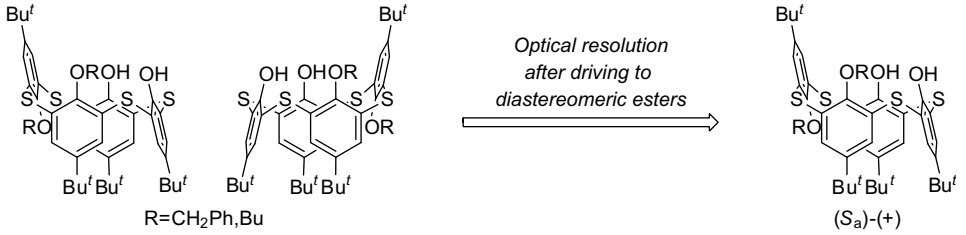


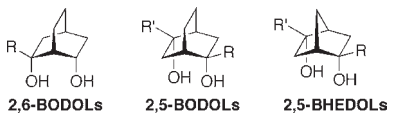


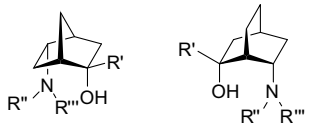
a: R= H, **b:** R= *m*-CH_3, **c:** R= *p*-CH_3
d: R= *p*-Cl, **e:** R= *p*-Br

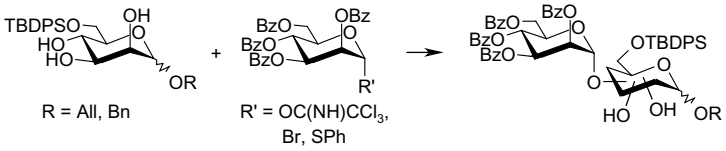


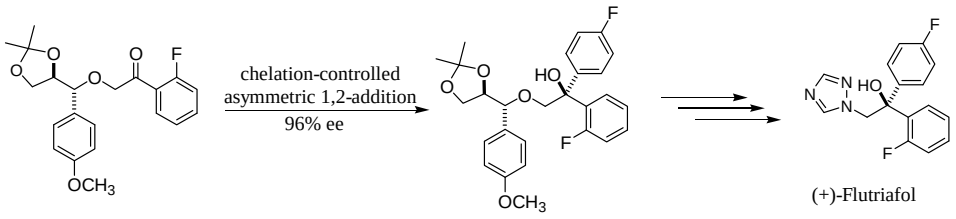


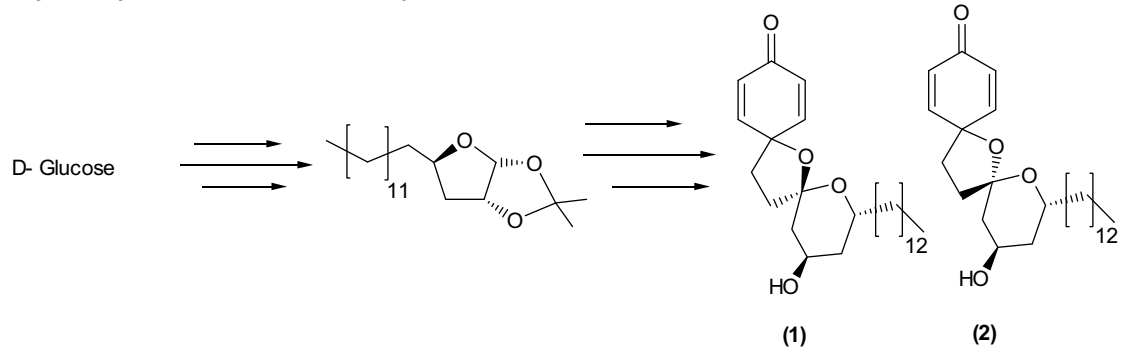












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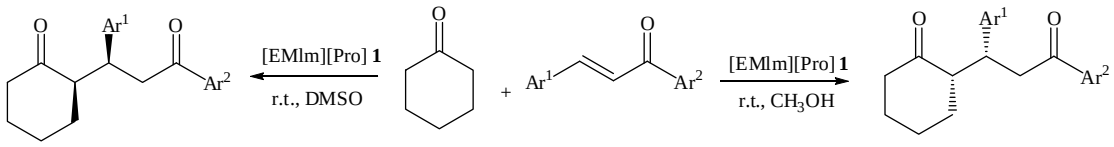

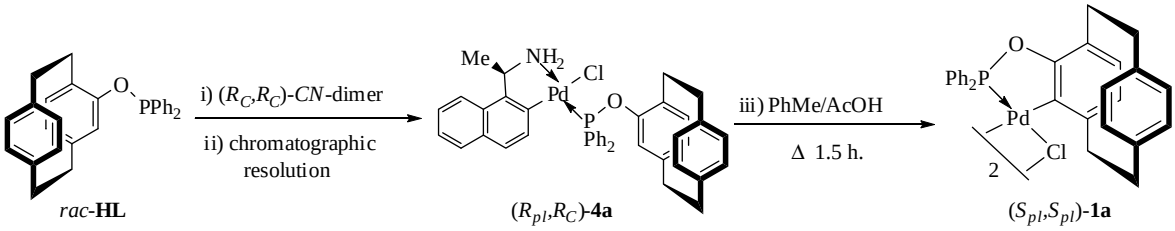

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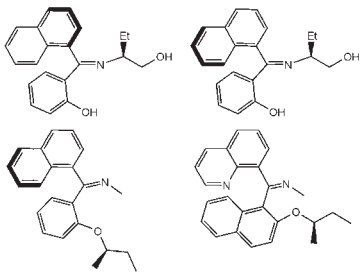

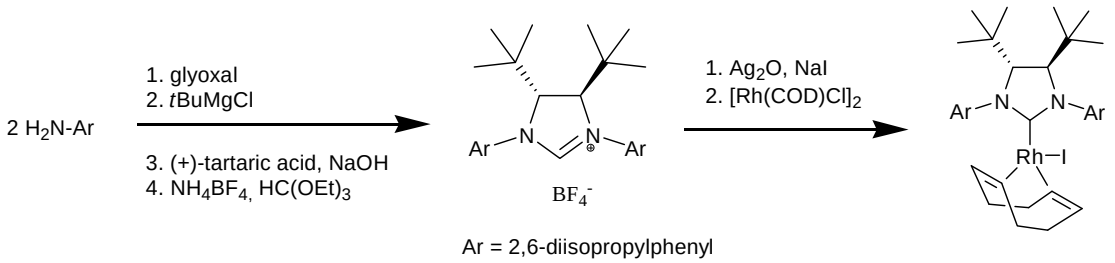

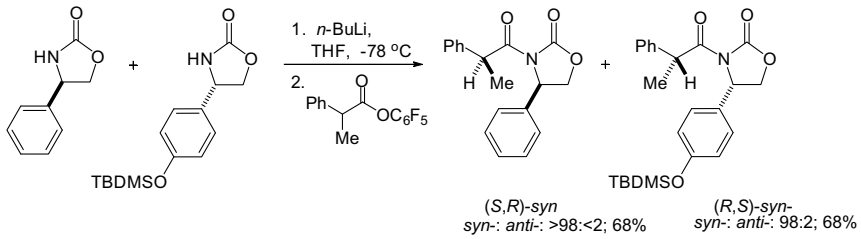

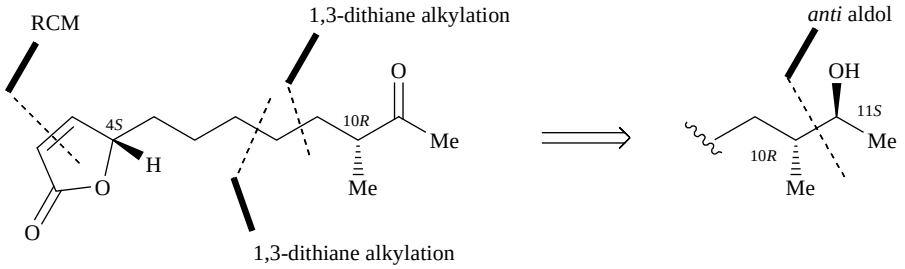

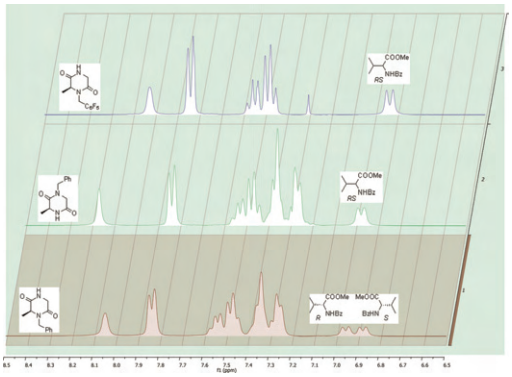

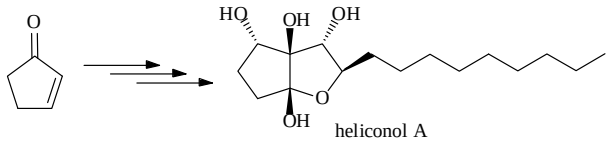

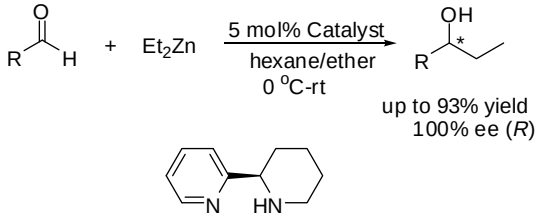

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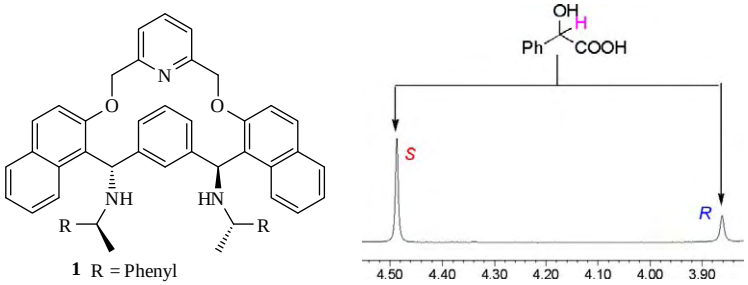
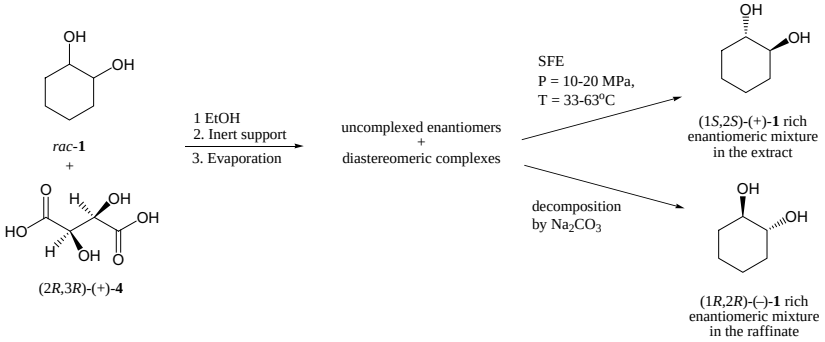
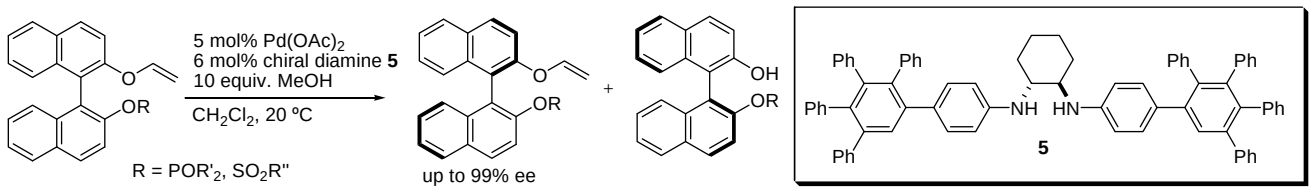
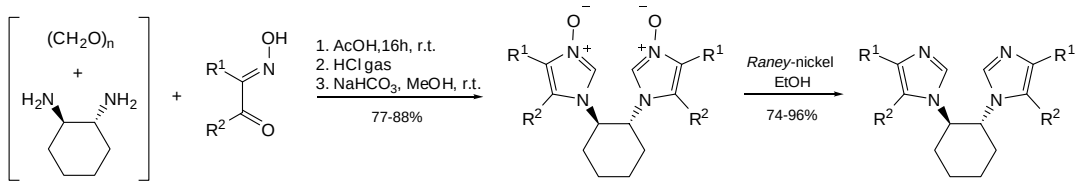
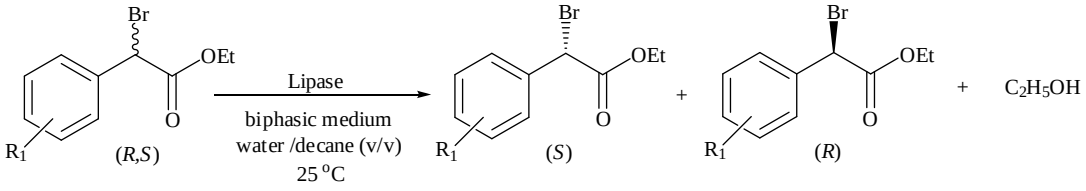


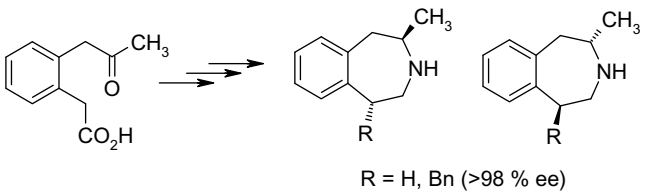


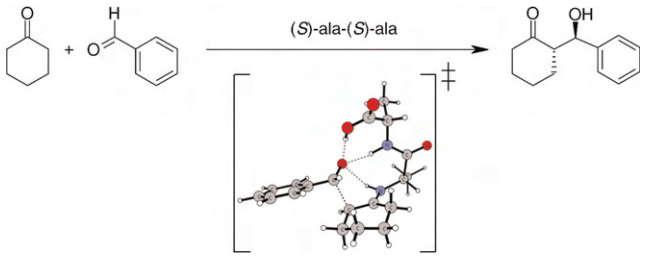


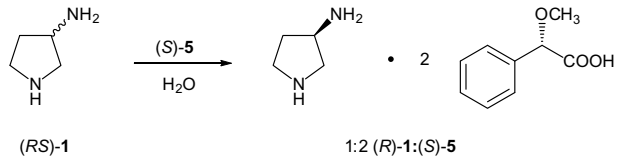


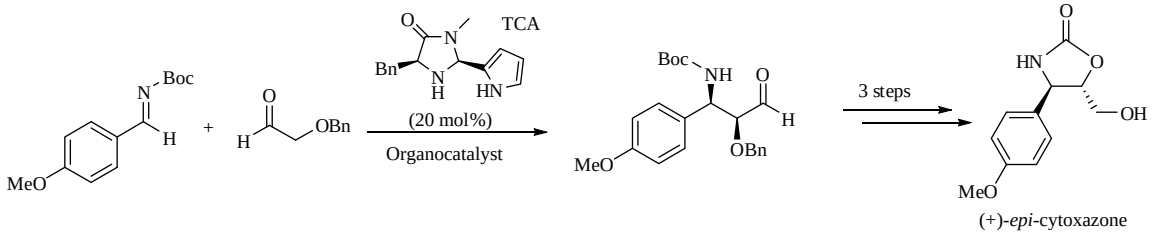


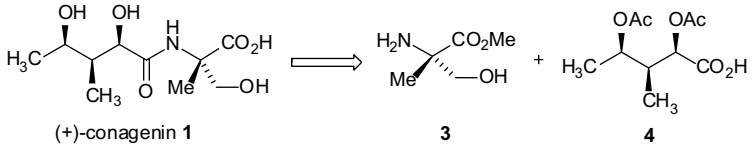
2-bromo-phenylacetic acid ethyl esters: R_1 = H
2-bromo-*o*-tolylacetic acid ethyl esters: R_1 = *ortho*-CH_3











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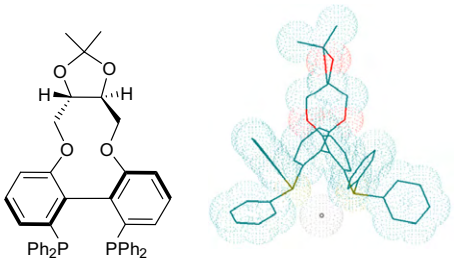

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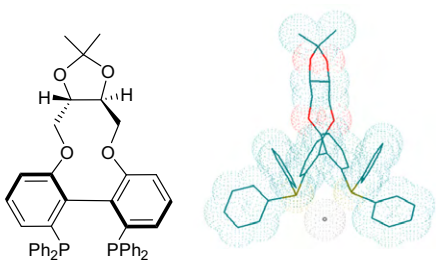

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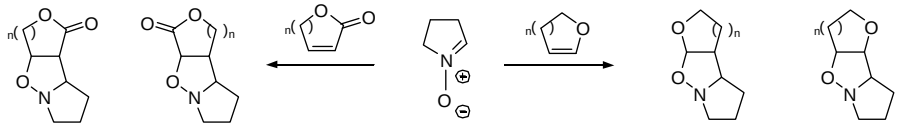

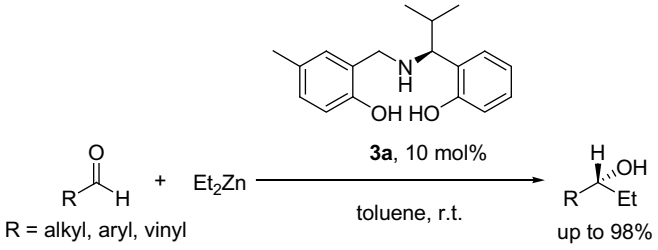

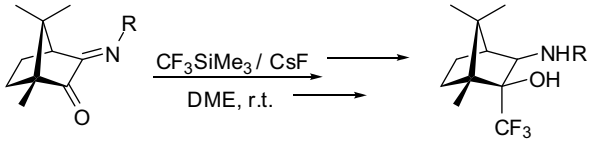

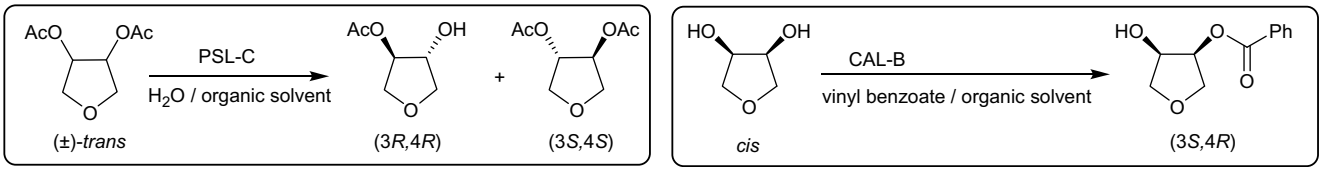

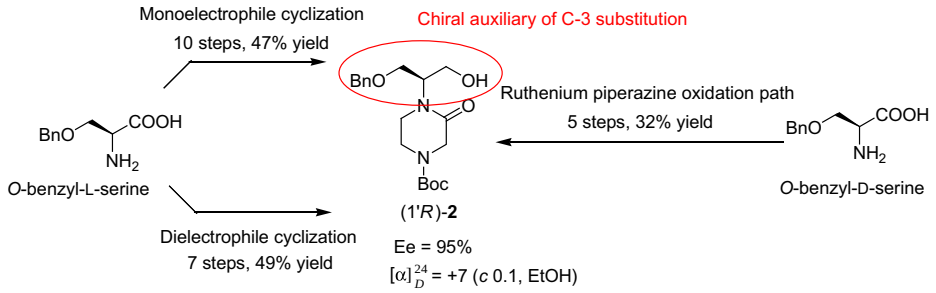

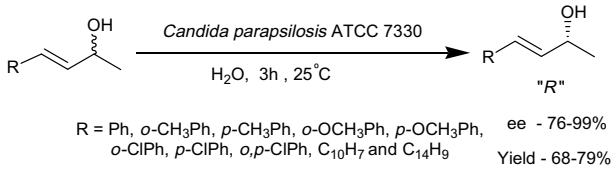

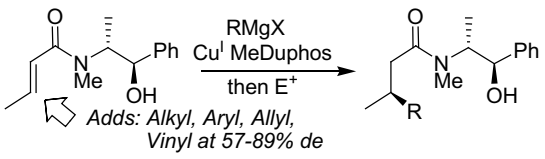

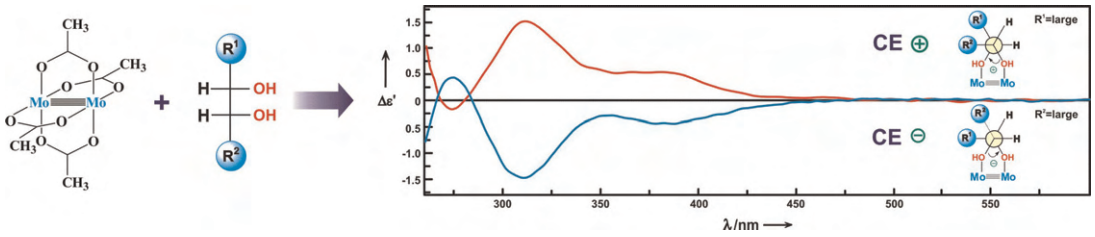

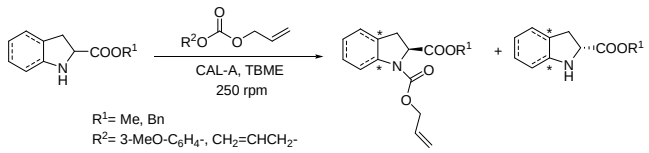

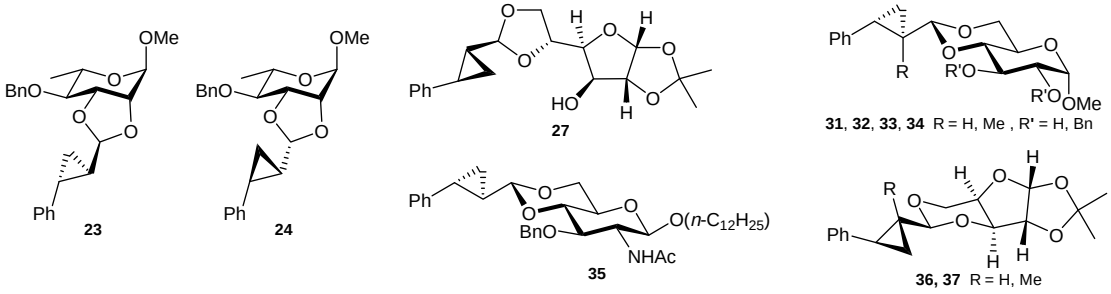

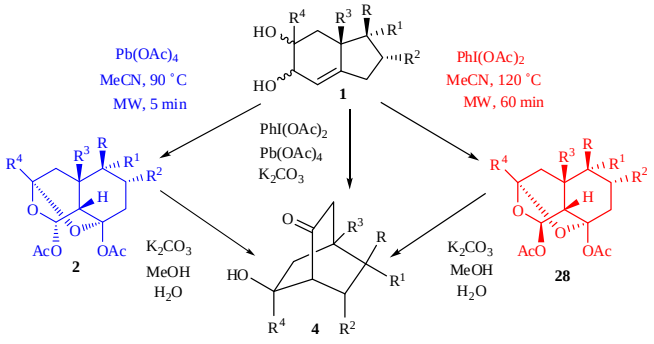

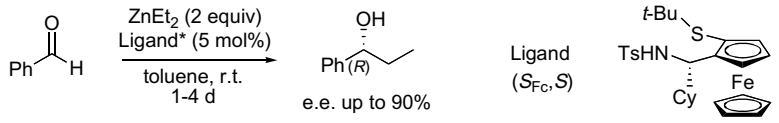

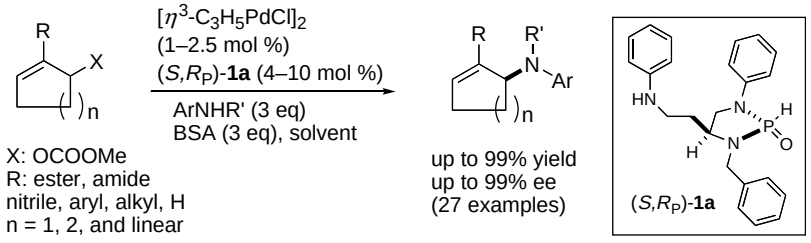

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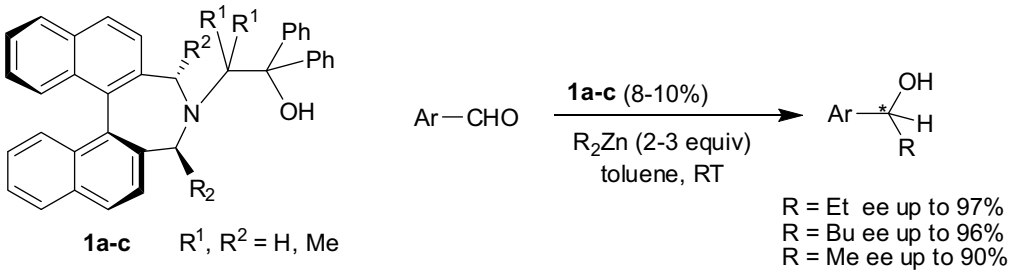
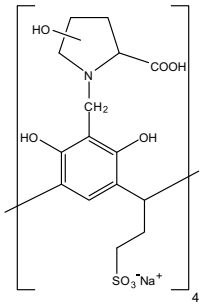
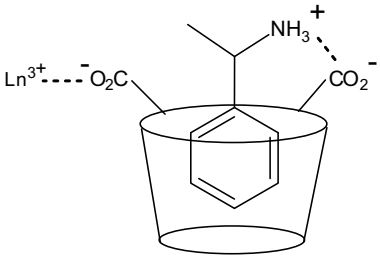
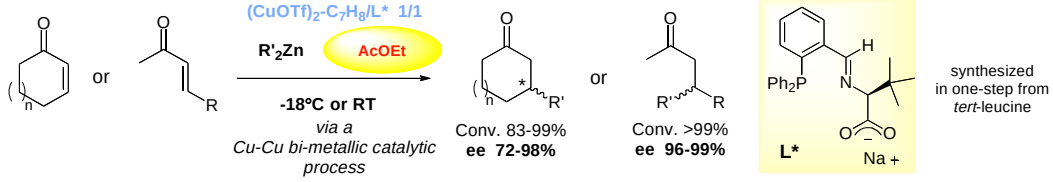
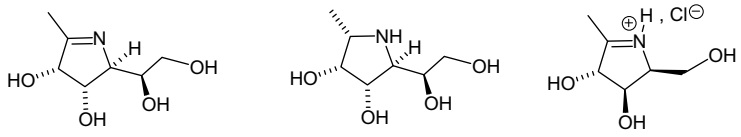
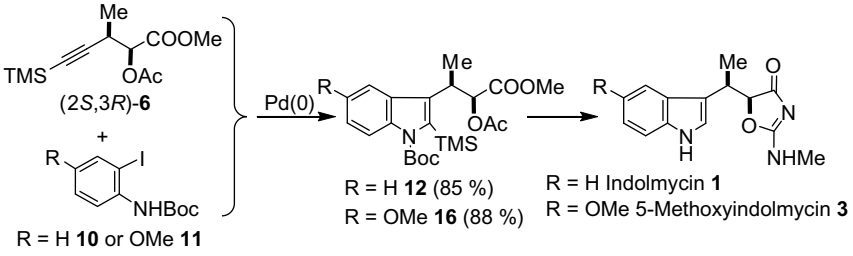


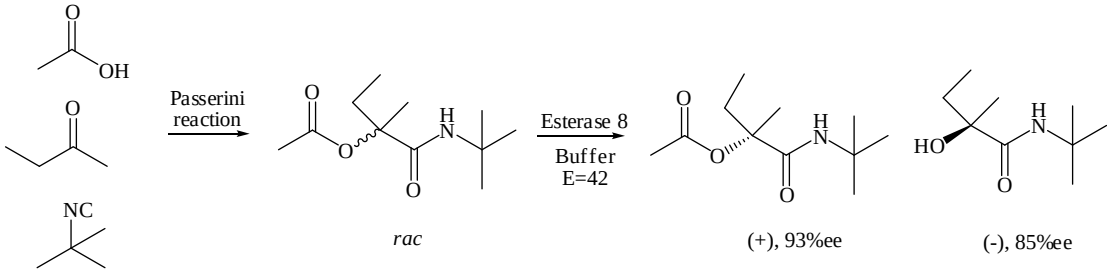


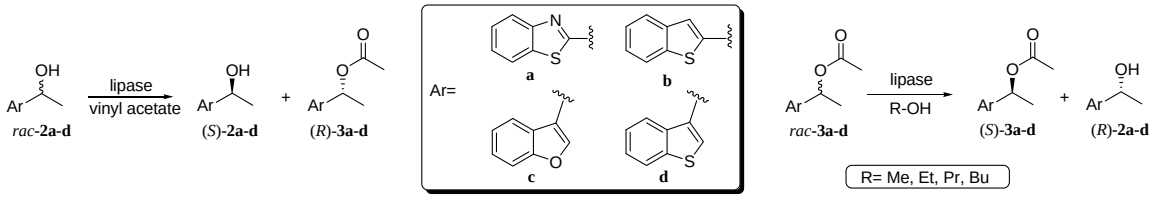


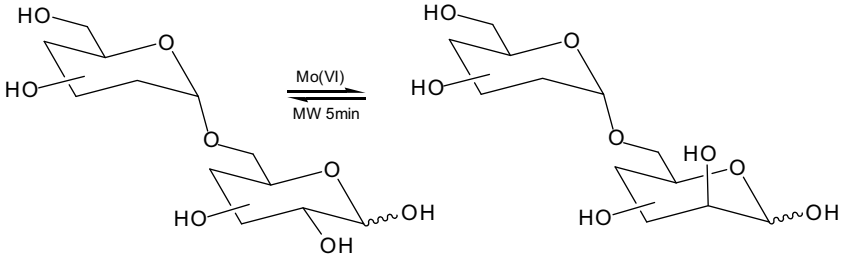


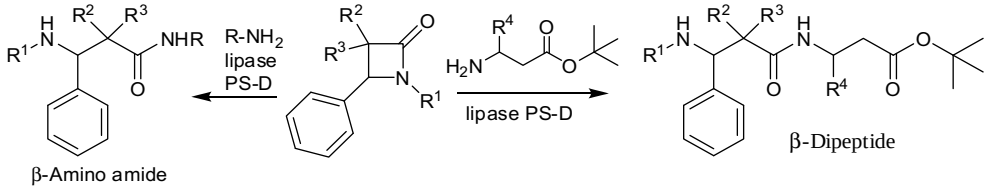




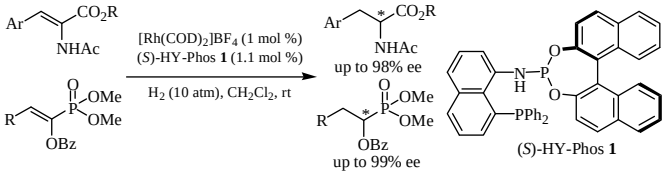


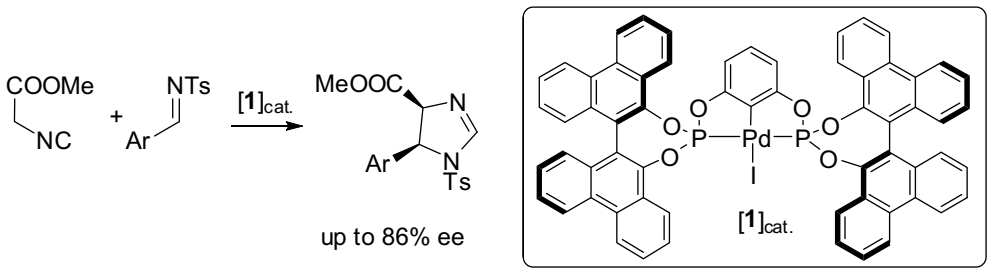


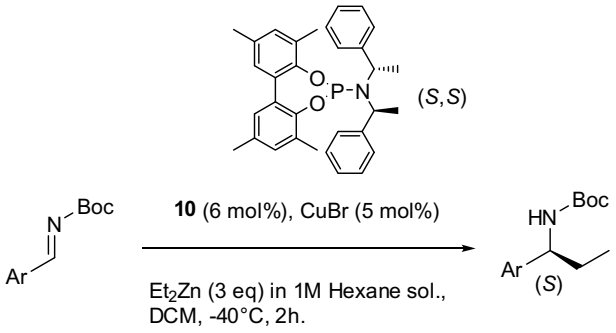




Lipase from *Burkholderia cepacia* was used for the preparation of enantiopure β-amino amides and β-dipeptides in dry organic solvent.







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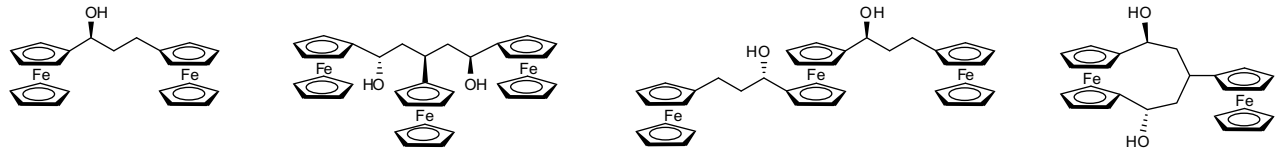
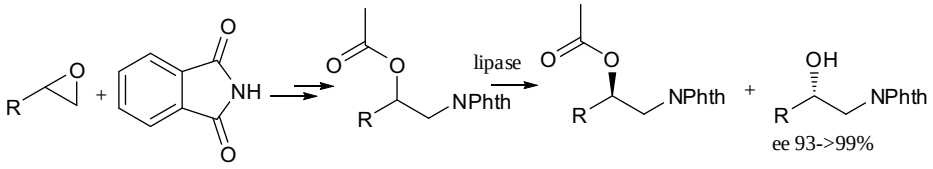
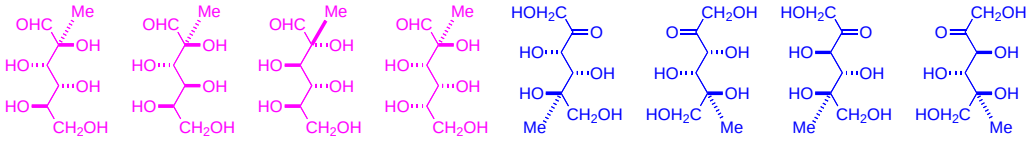
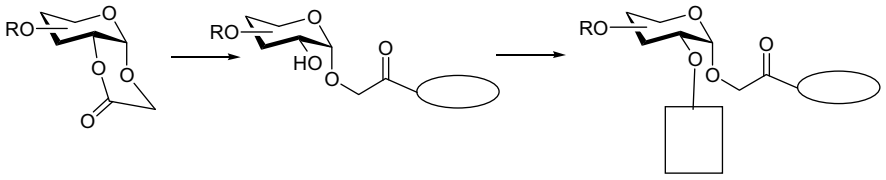
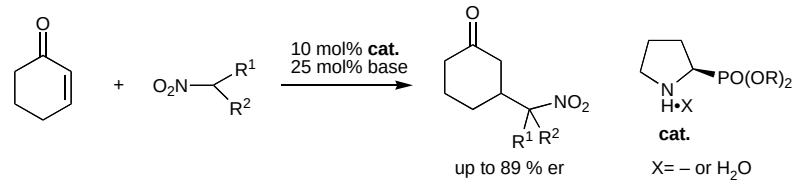
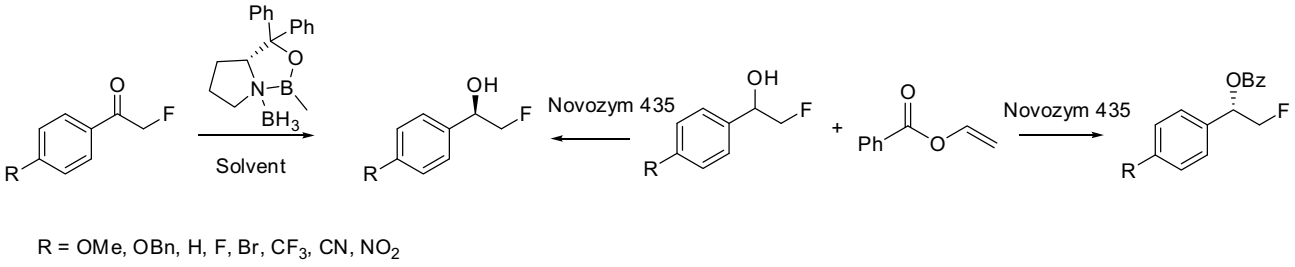


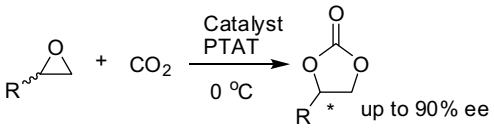




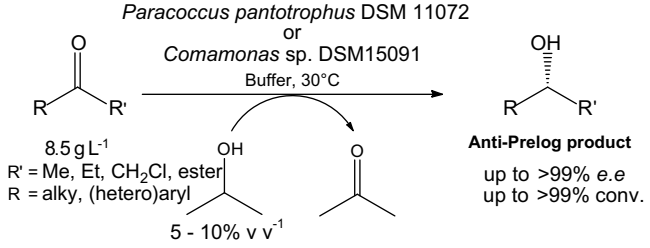


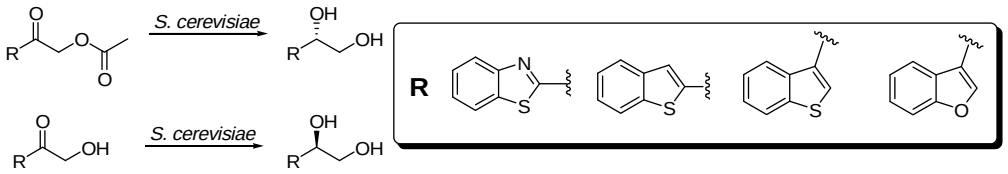


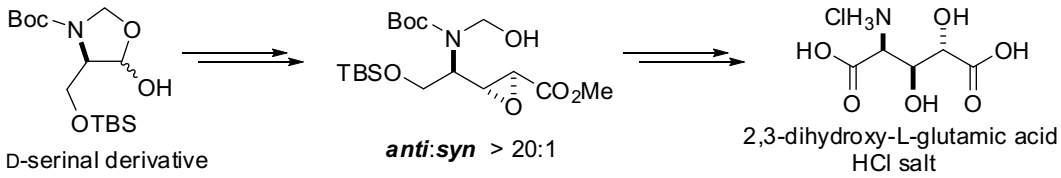


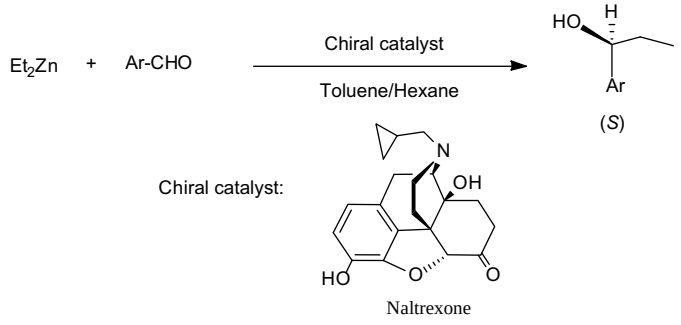


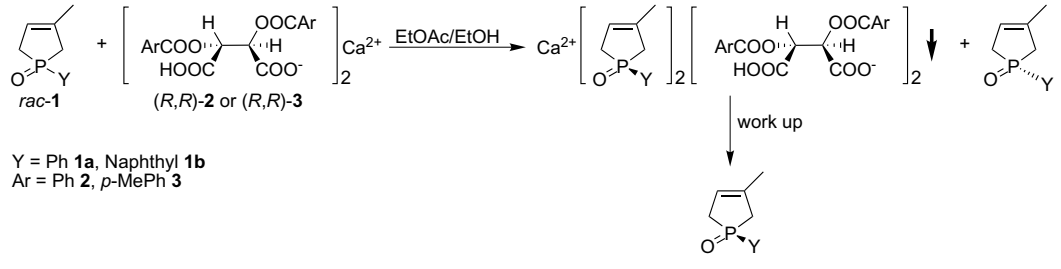
New catalysts of BINADCo(III)X were synthesized and applied to the asymmetric cycloaddition of CO_2 with epoxides to generate chiral cyclic carbonates with moderate to excellent yield under very mild conditions.

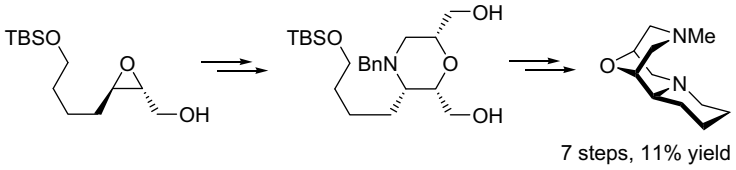


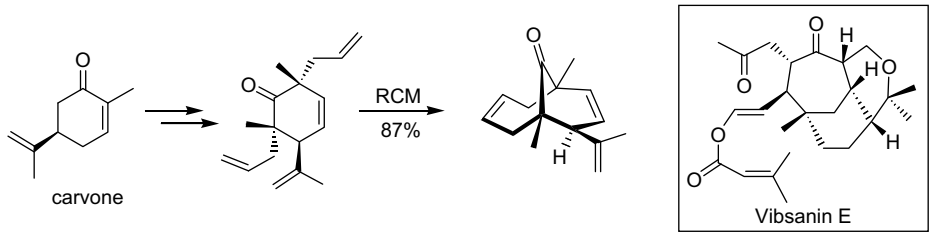


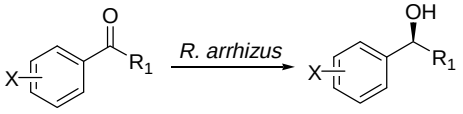












R_1 = Me, Et; X = H, 2-, 3-, 4-F/Cl/Br/Me/NO_2, 2,4-Dichloro, 2,3,4-Trichloro

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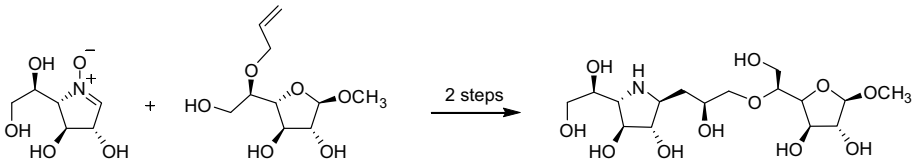

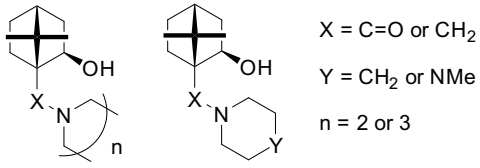

Structural factors exert different effects on the catalytic activity (enantioselective addition of diethylzinc to benzaldehyde) depending on the ligand type (functional grouping).

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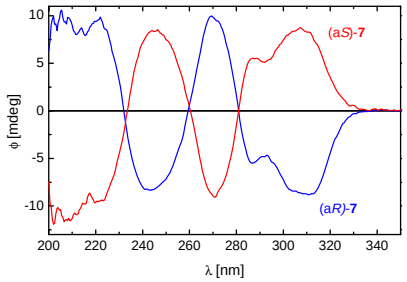

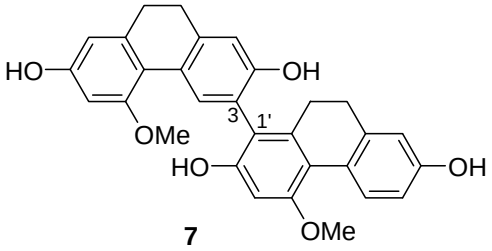

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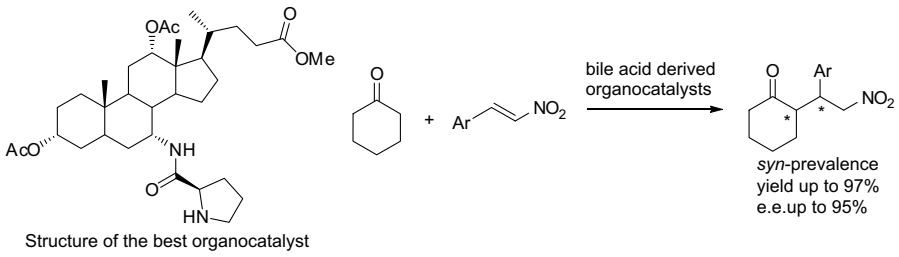
Substrate control by means of the chiral cavity of prolinamide derivatives of cholic acid in the organocatalyzed Michael addition of cyclohexanone to nitroolefins **pp 2045–2050**

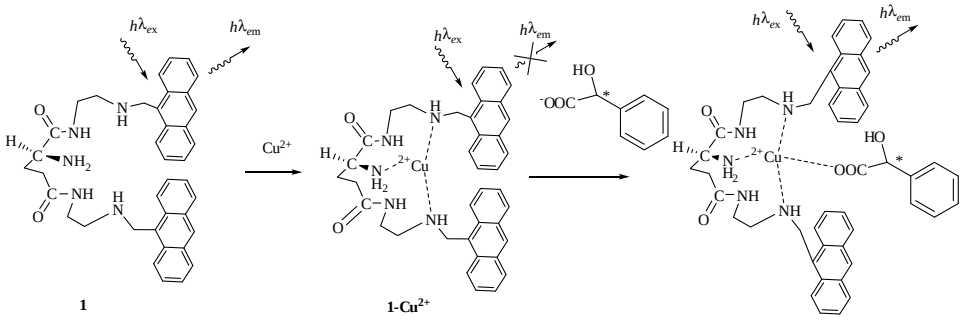
Gian Luigi Puleo, Anna Iuliano *



Structure of the best organocatalyst

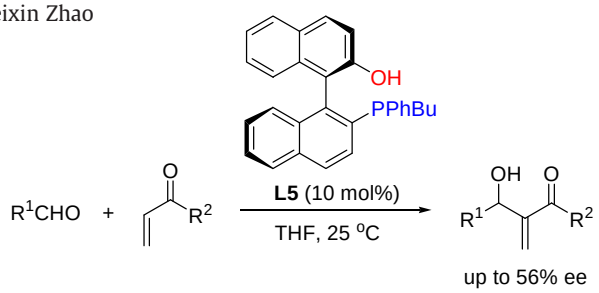
Preparation of a metal–ligand fluorescent chemosensor and enantioselective recognition of carboxylate anions in aqueous solution **pp 2051–2057**

Zhi-hong Chen, Yong-bing He *, Chen-Guang Hu, Xiao-huan Huang



Bifunctional chiral phosphine-containing Lewis base catalyzed asymmetric Morita–Baylis–Hillman reaction of aldehydes with activated alkenes **pp 2058–2062**

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

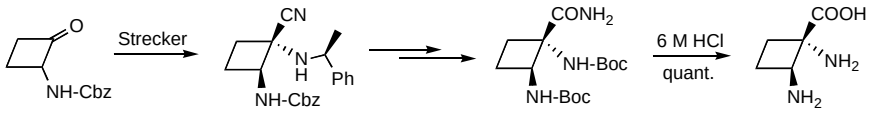


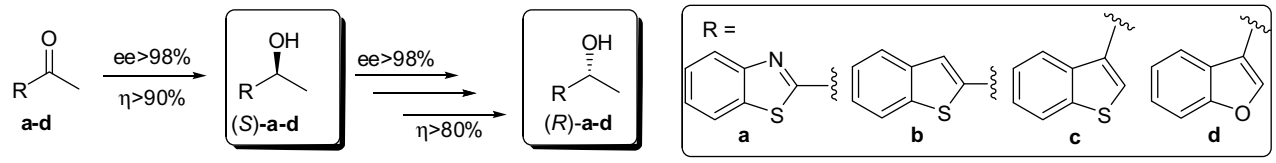
up to 56% ee

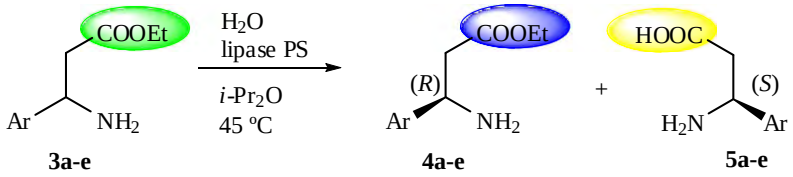
A series of novel bifunctional chiral phosphine-containing Lewis bases were synthesized and successfully applied to the asymmetric Morita–Baylis–Hillman reaction of aldehydes with methyl vinyl ketone (MVK) and ethyl vinyl ketone (EVK) to give the corresponding adducts in moderate yields and enantioselectivities under mild reaction conditions.

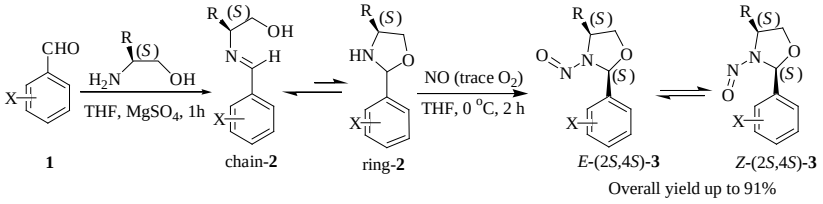
First synthesis of enantiomerically pure (1*S*,2*S*)- and (1*R*,2*R*)-1,2-diaminocyclobutanecarboxylic acid–ornithine derivative–, from racemic 2-aminocyclobutanone **pp 2063–2067**

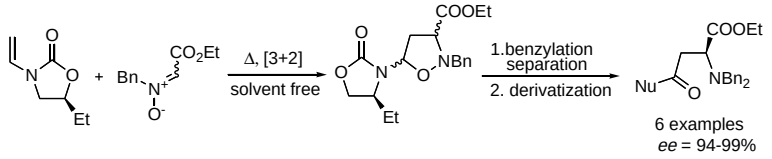
Damien Hazelard, Antoine Fadel *, Régis Guillot

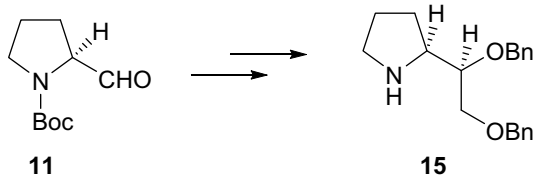


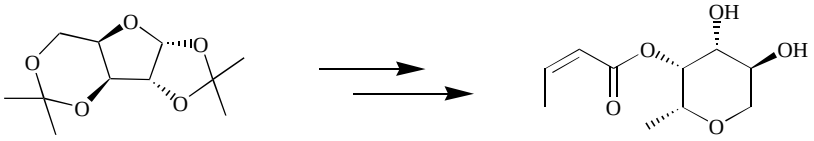




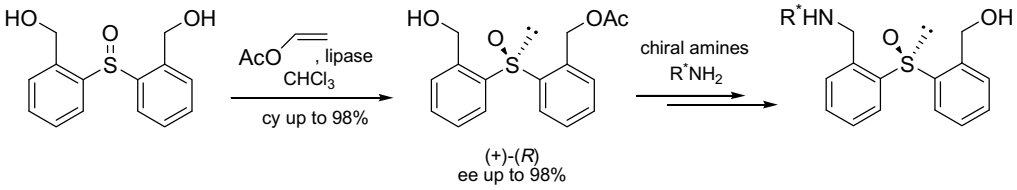


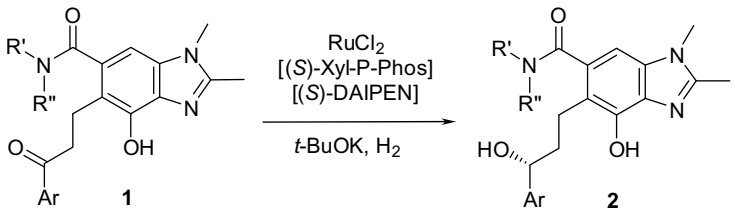






Total synthesis of ophiocerin D from D-xylose is reported.





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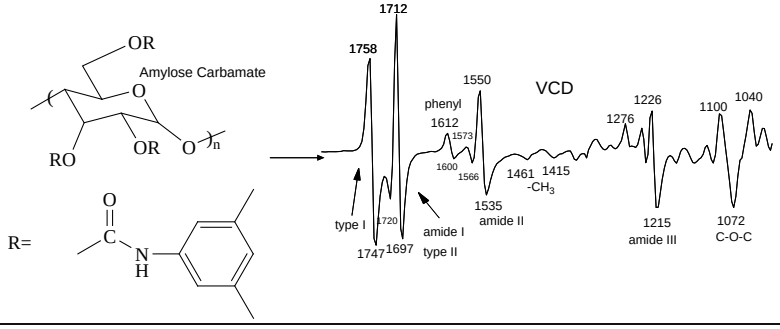

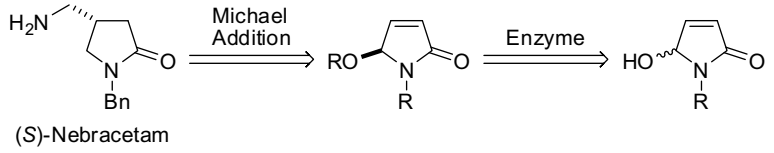

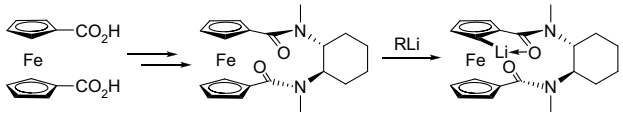

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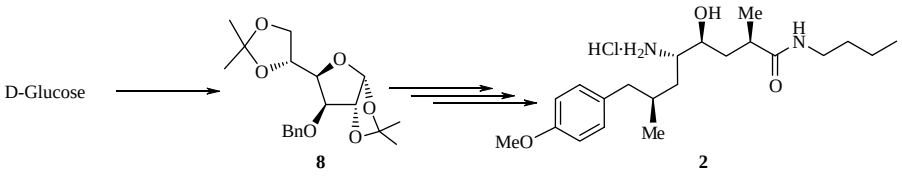

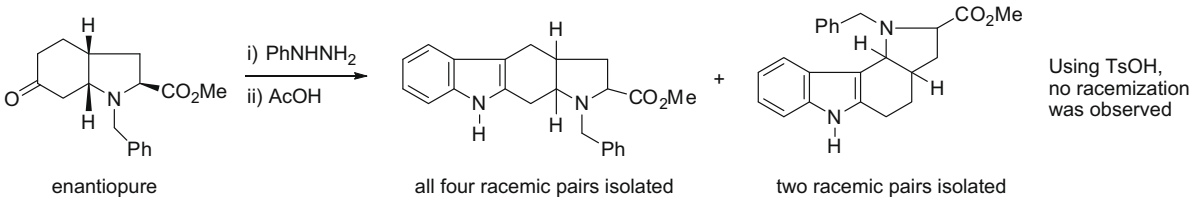

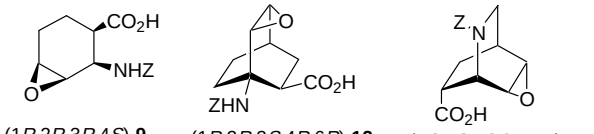

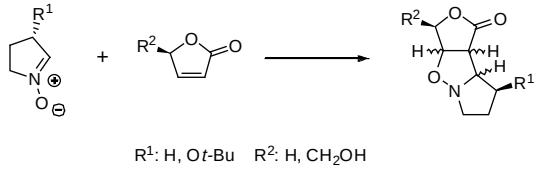

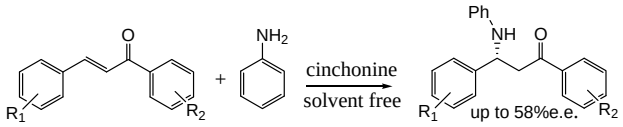

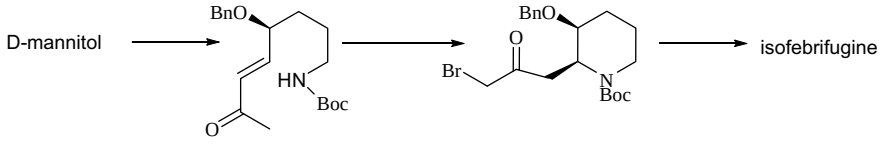

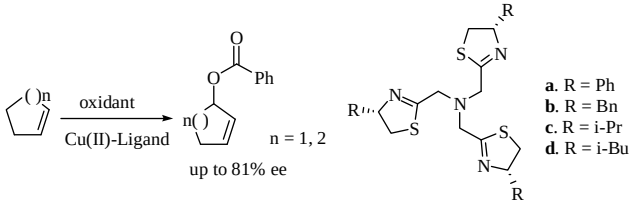

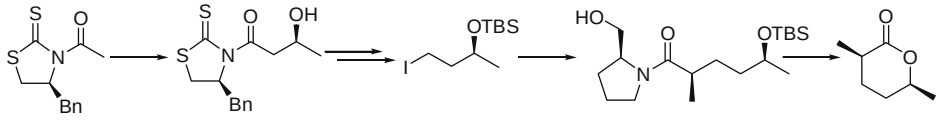

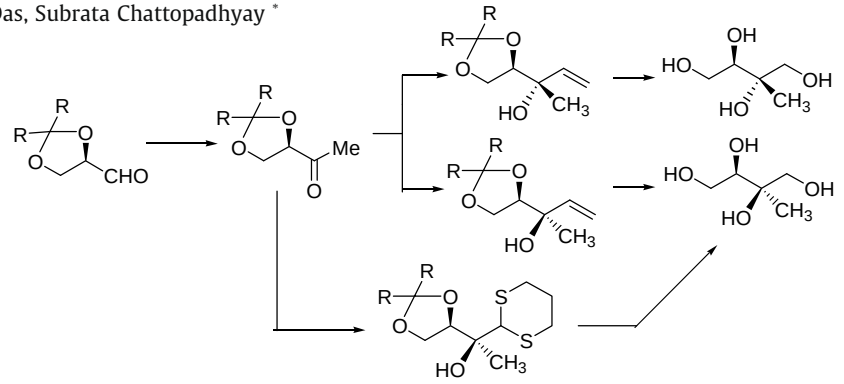

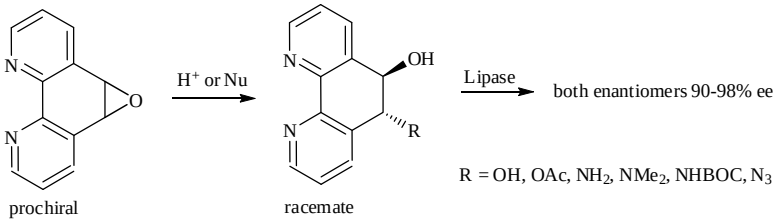

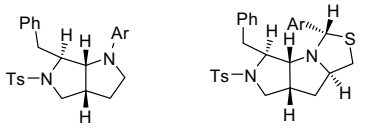

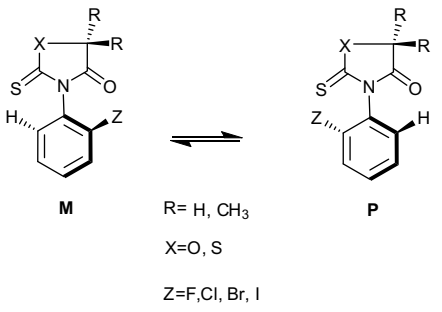

Thermally interconvertible enantiomers $\Delta G^{\#}$ = 82–129 kJ/mol.

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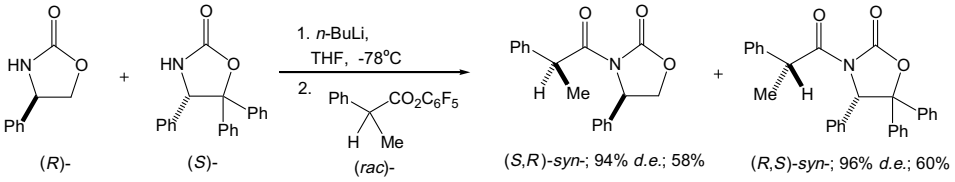
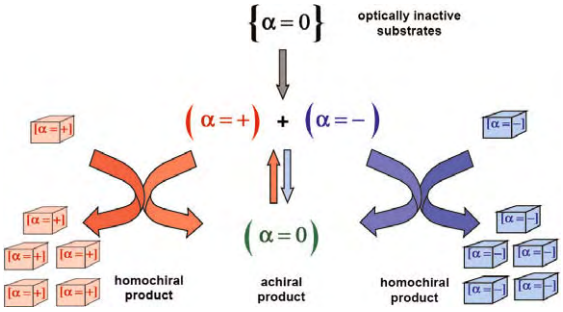
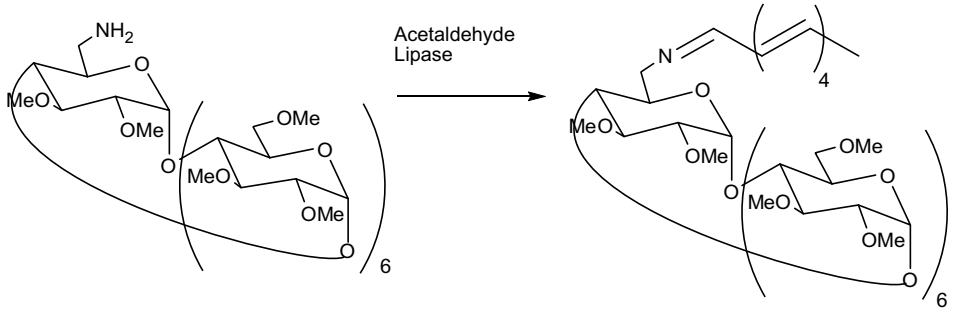
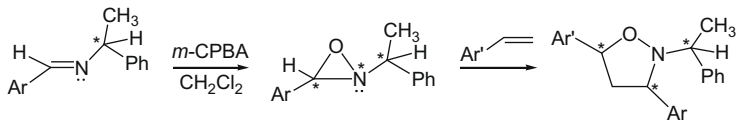
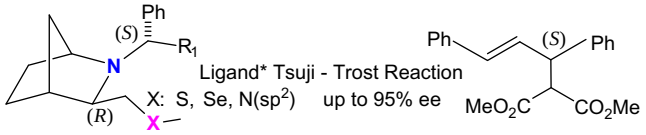
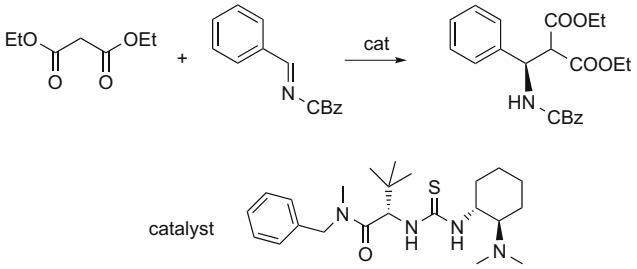




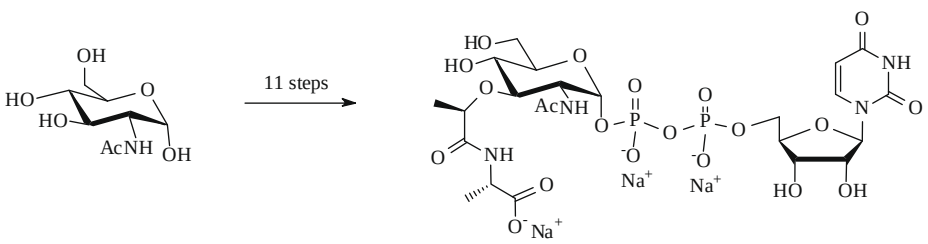


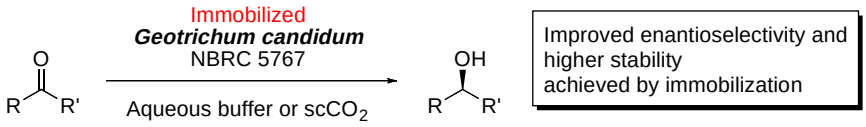


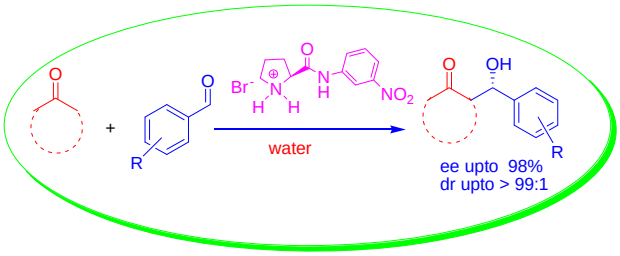




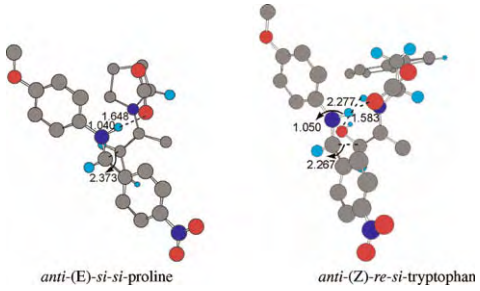
Bifunctional organic catalysts obtained by combination of (*S*)-*t*-leucine-derivatives with (1*R*,2*R*)-*trans*-1,2-diamino-cyclohexane were able to promote the addition of acetylacetone to β-nitrostyrene in 85% ee and the reaction between *N*-CBz imines and diethyl malonate in up to 71% ee.

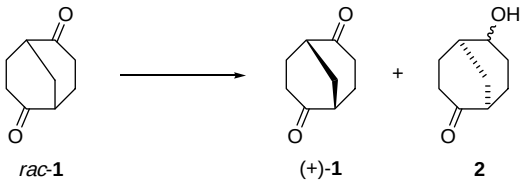


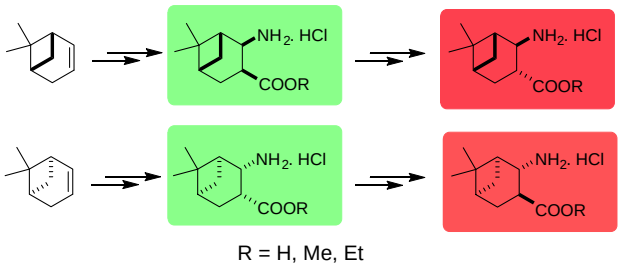




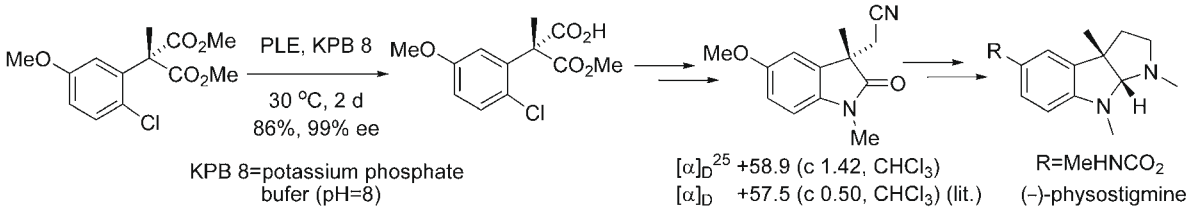
The most stable transition states of the crucial C–C bond-forming step for the proline- and tryptophan-catalyzed direct Mannich reaction involving hydroxyacetone, *p*-anisidine, and *p*-nitrobenzaldehyde.

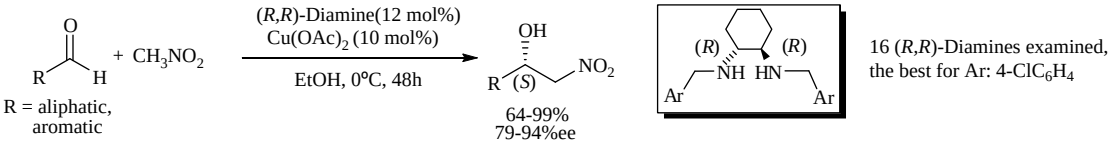


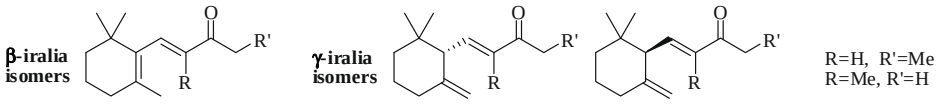


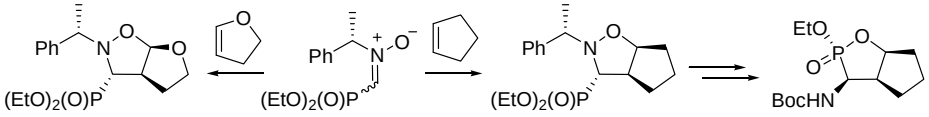


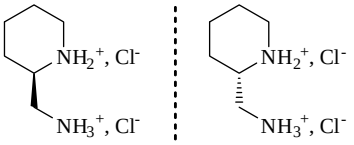
Chlorosulfonyl isocyanate addition to (−)- and (+)-apopinene furnished monoterpene-fused β-lactams in highly regio- and stereospecific reactions, which were easily converted to β-amino acids and their protected derivatives. The base-catalyzed isomerization of the *cis*-amino ester afforded the corresponding *trans*-amino acid enantiomers in excellent yields.











(*R*) (*S*)

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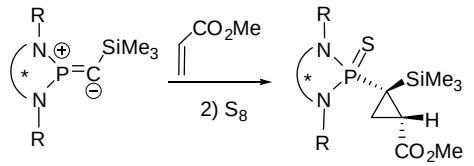
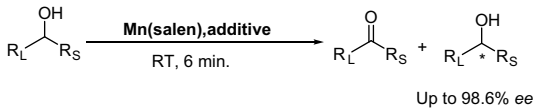
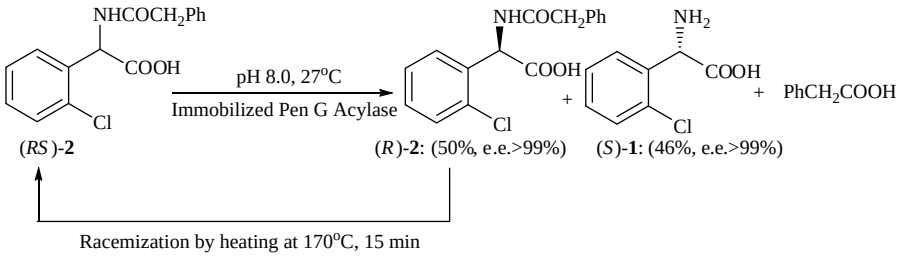
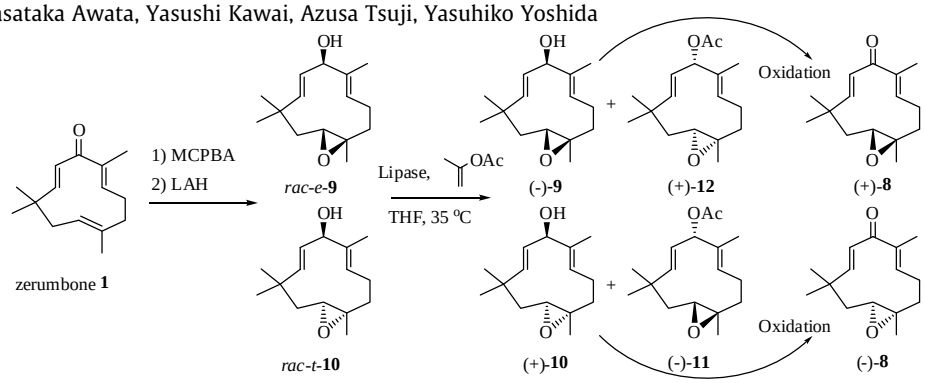
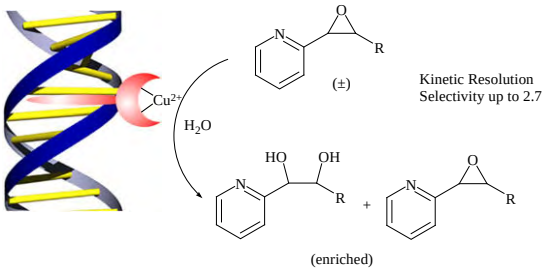
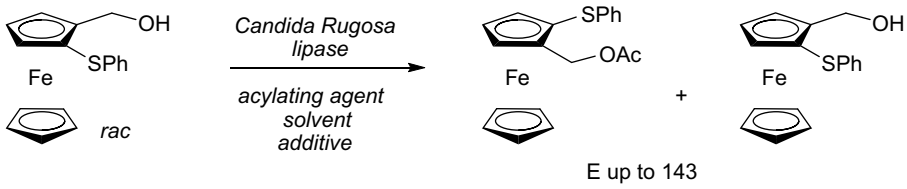


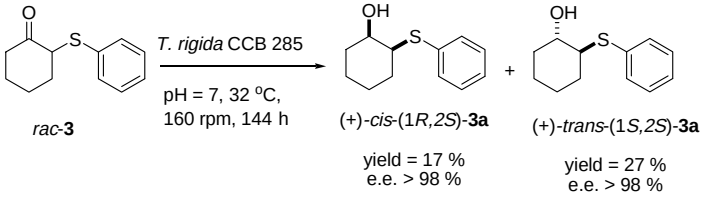


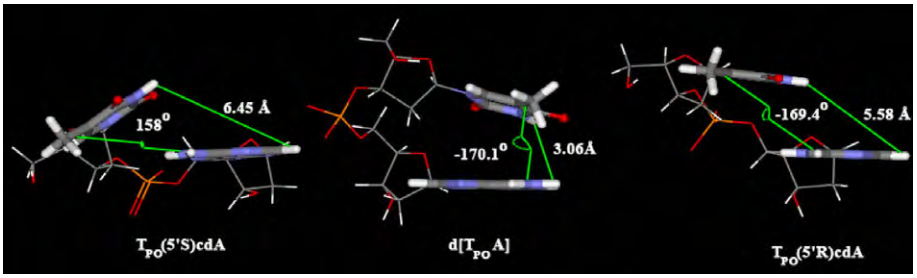




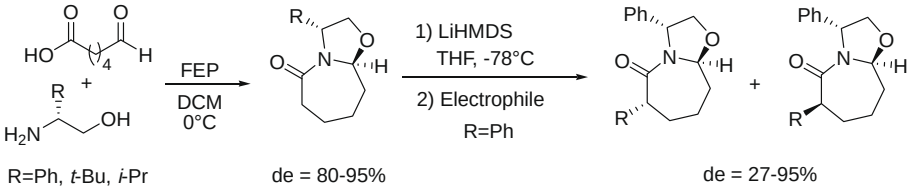


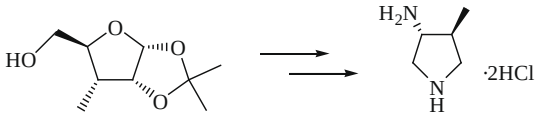


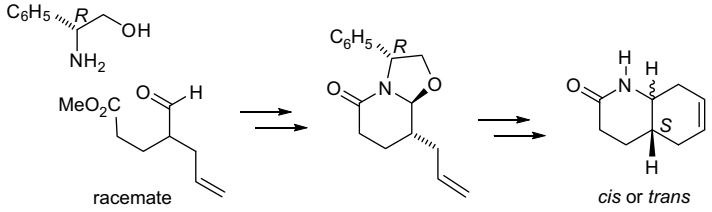


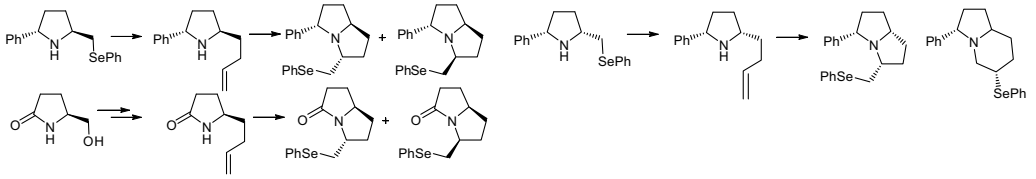


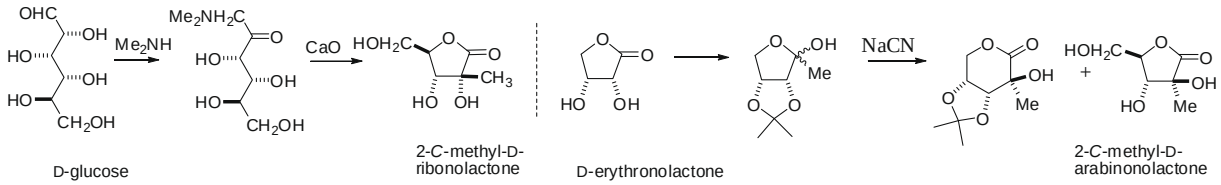
Graphical visualization of the difference in 3-D structure between T_{PO}(5′*S*)cdA, d[T_{PO}A], T_{PO}(5′R)cdA.

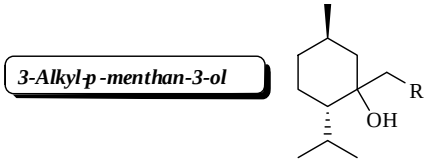












Twenty-nine different isomers and derivatives were stereoselectively synthesized and evaluated.

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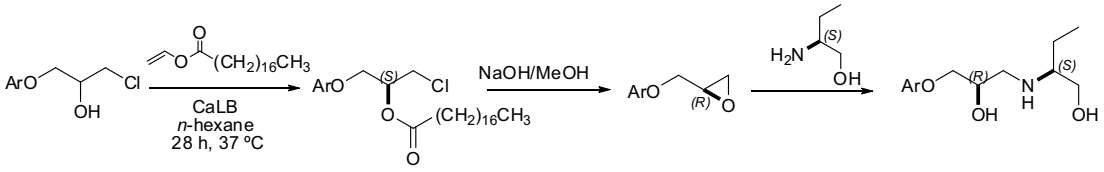
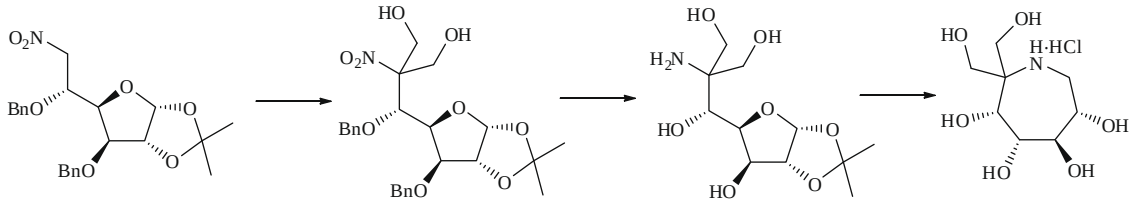
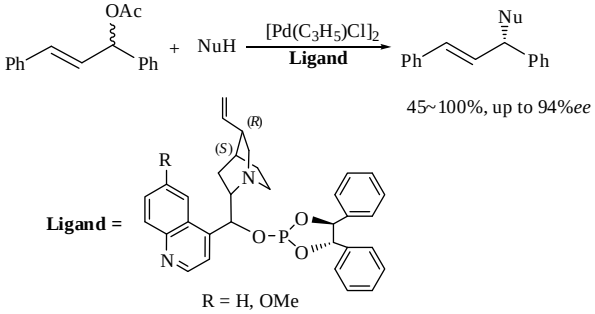
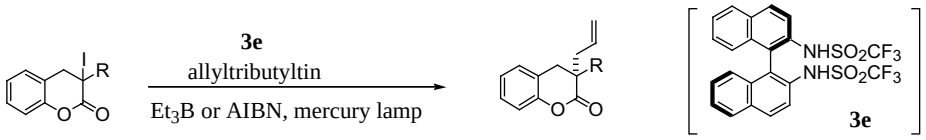
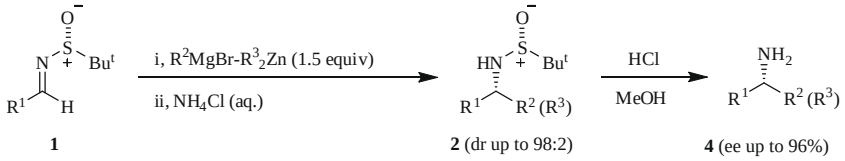
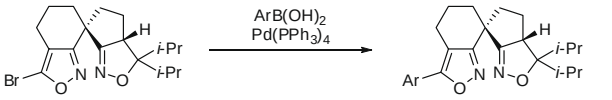


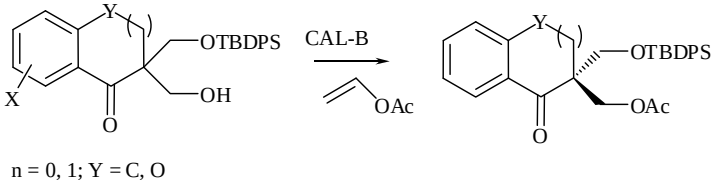


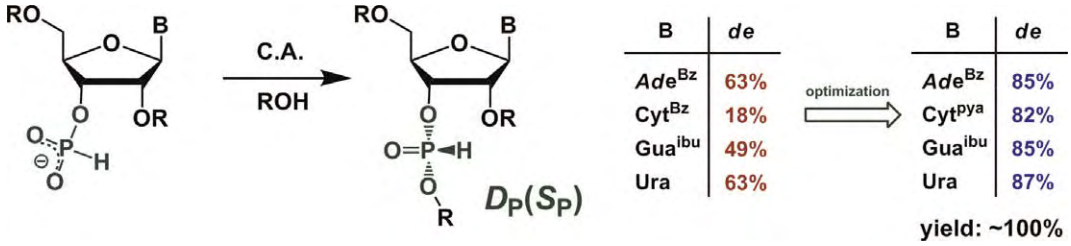


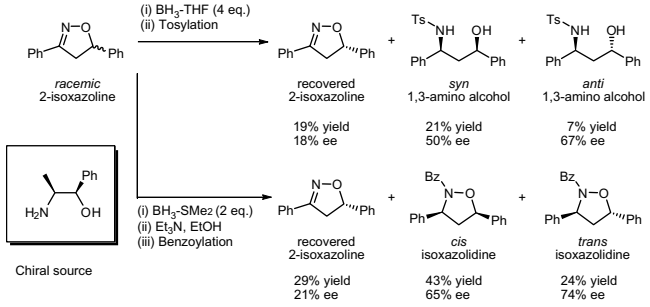


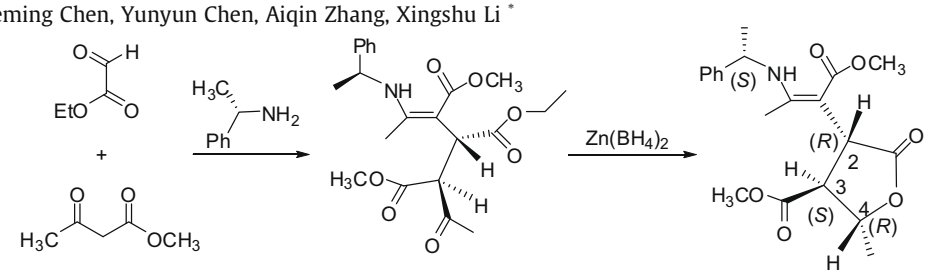




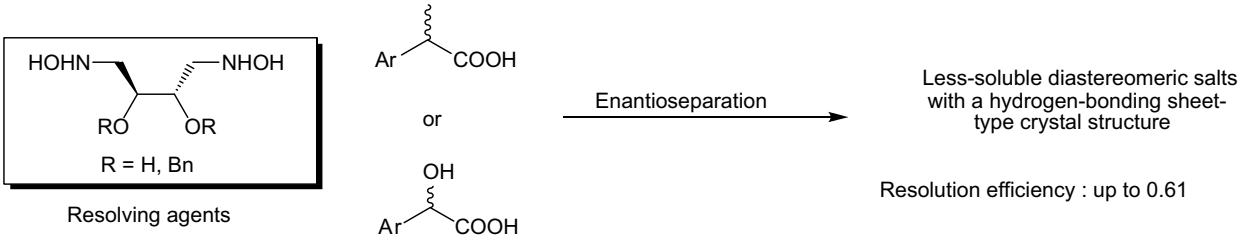








A new type of chiral tricarboxylate containing multiple stereocenters was synthesized via the one-pot reaction of β-ketoester, (*S*)-phenylethylamine, and ethyl glyoxylate under very mild reaction conditions. The reaction of compound **2** with $Zn(BH_4)_2$ provides γ-lactone **7** up to 92:8 dr.



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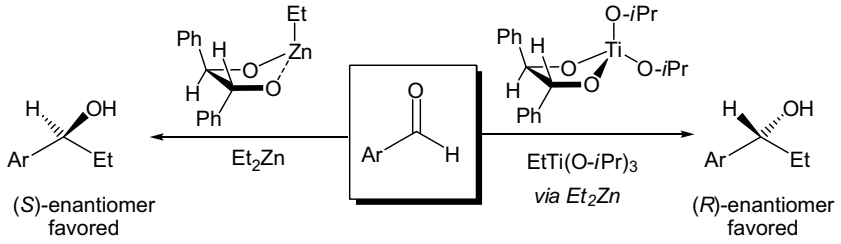

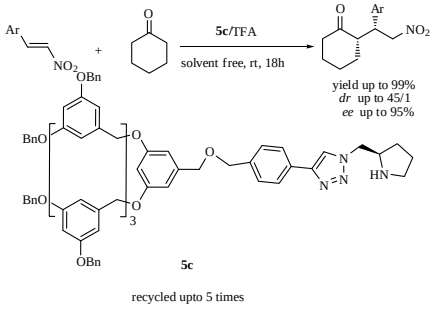

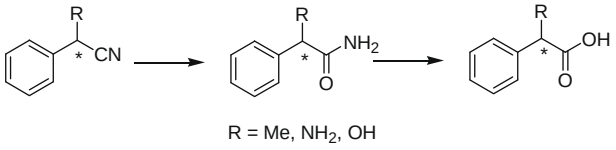

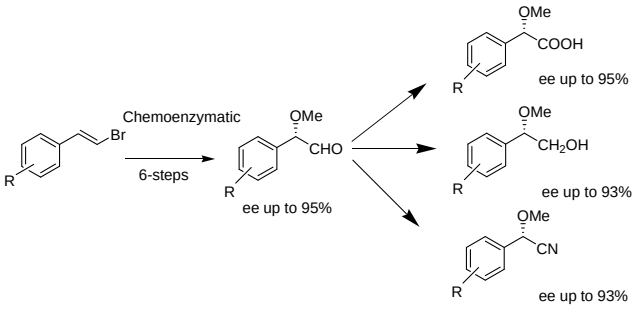

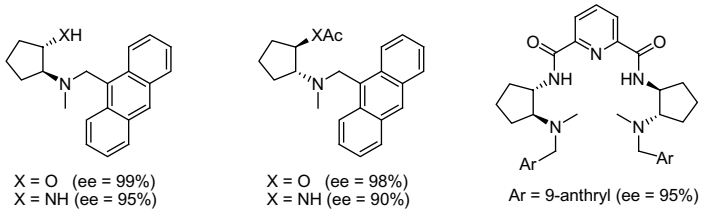

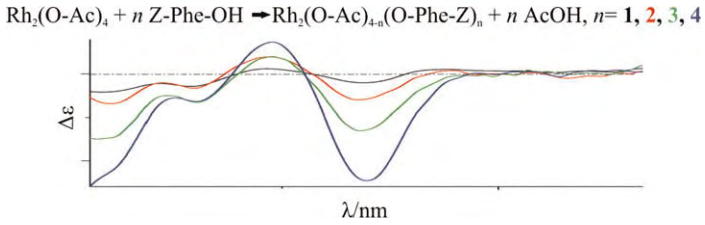

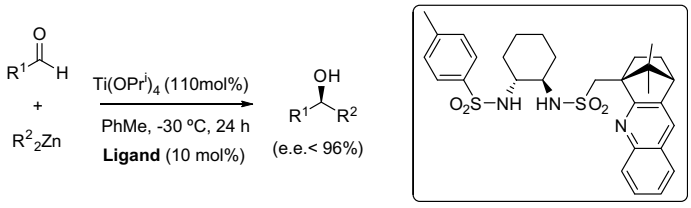

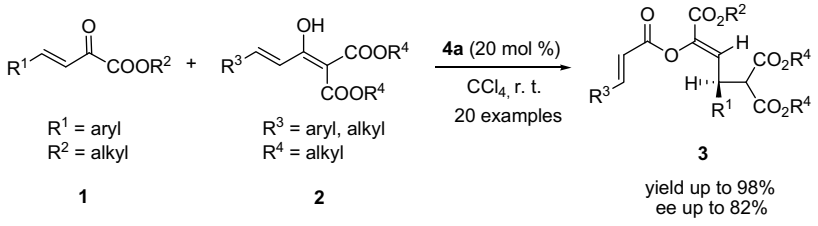

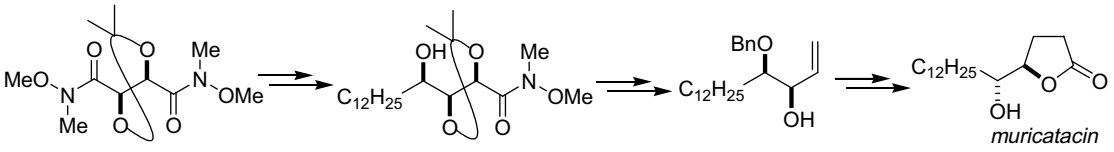

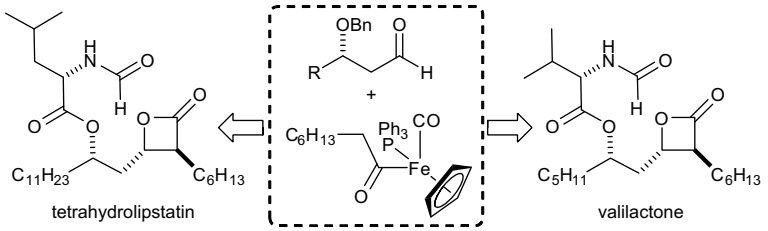

Stereoselective aldol reaction of a homochiral iron octanoyl complex, followed by tandem oxidative decomplexation–cyclisation facilitated the asymmetric syntheses of tetrahydrolipstatin and valilactone.

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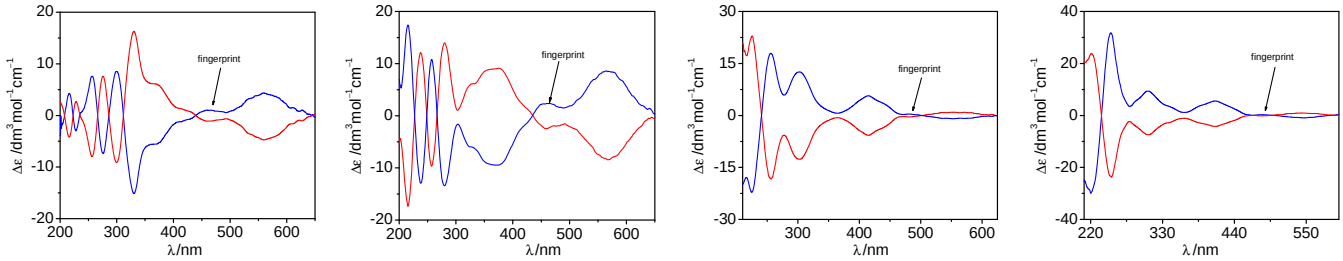
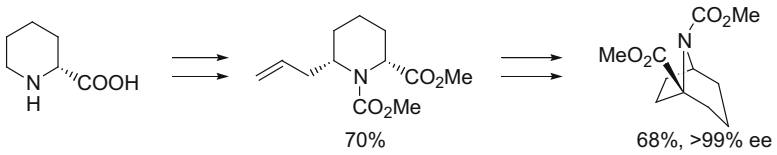
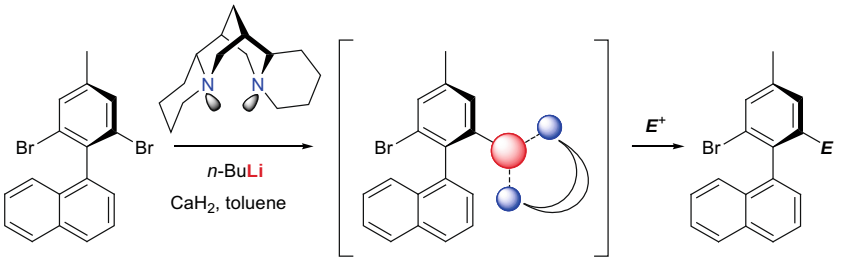
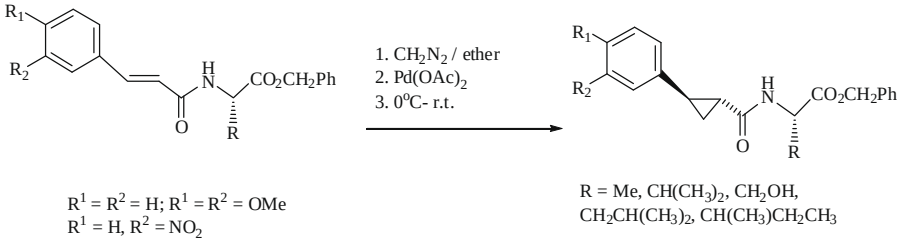




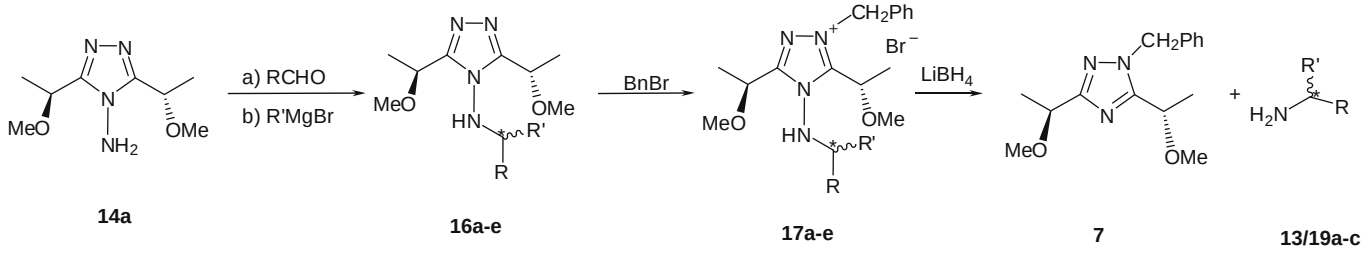




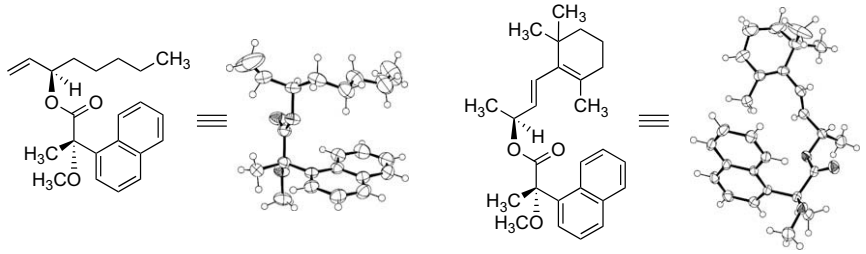
$R^1 = R^2 = H$; $R^1 = R^2 = OMe$
$R^1 = H$, $R^2 = NO_2$

de ranges from 20-90%

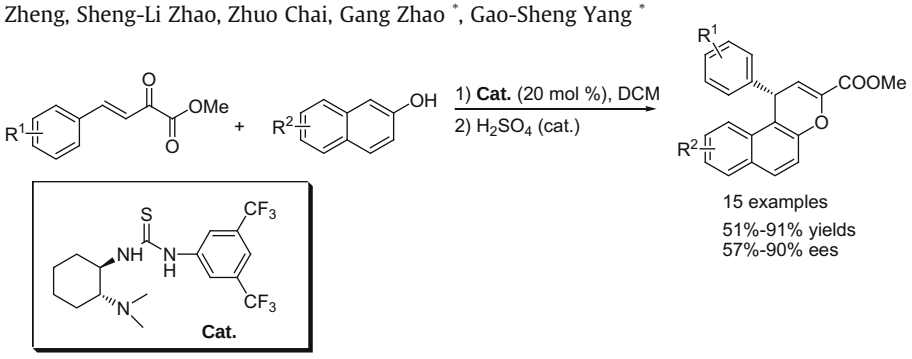
Synthesis of chiral primary amines: diastereoselective alkylation of *N*-[(1*E*)-alkylidene]-3,5-bis[(1*S*)-1-methoxyethyl]-4*H*-1,2,4-triazol-4-amines and N_4–$N_{exocyclic}$ bond cleavage in the resulting 1,2,4-triazol-4-alkylamines **pp 2682–2692**
Muriel Serradeil-Albalat, Christian Roussel *, Nicolas Vanthuyne, Jean-Claude Vallejos, Didier Wilhelm



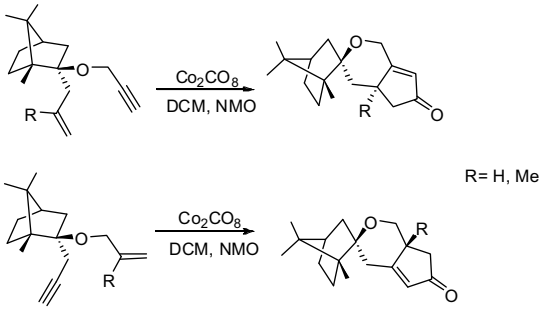
Characteristic conformations and molecular packings in crystal structures of diastereomeric esters prepared from (*S*)-2-methoxy-2-(1-naphthyl)propanoic acid **pp 2693–2698**
Akio Ichikawa *, Hiroshi Ono, Yuji Mikata

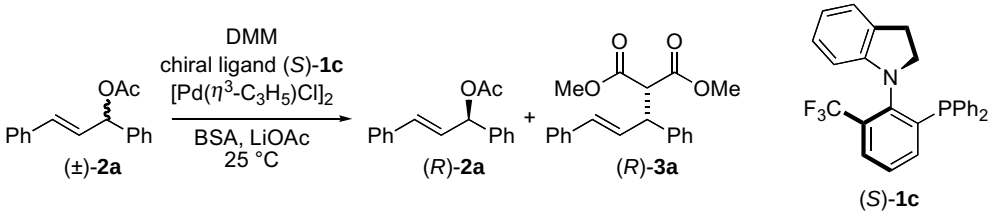


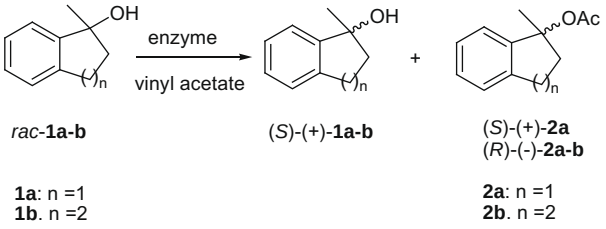
Organocatalyzed Friedel–Craft-type reaction of 2-naphthol with β,γ-unsaturated α-keto ester to form novel optically active naphthopyran derivatives **pp 2699–2704**
Xiao-Sheng Wang, Chang-Wu Zheng, Sheng-Li Zhao, Zhuo Chai, Gang Zhao *, Gao-Sheng Yang *

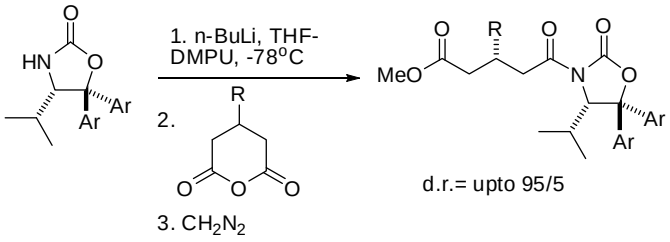


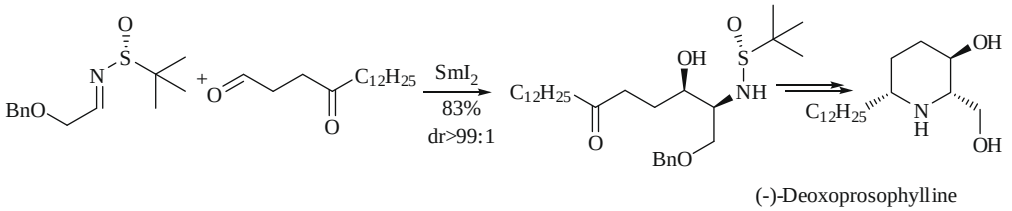
Stereoselective synthesis of spirocyclic cyclopentapyrans by the Pauson–Khand reaction on camphor tethered enynes **pp 2705–2710**
Serdar Sezer, Yasemin Gümrükçü, Ertan Şahin, Cihangir Tanyeli *

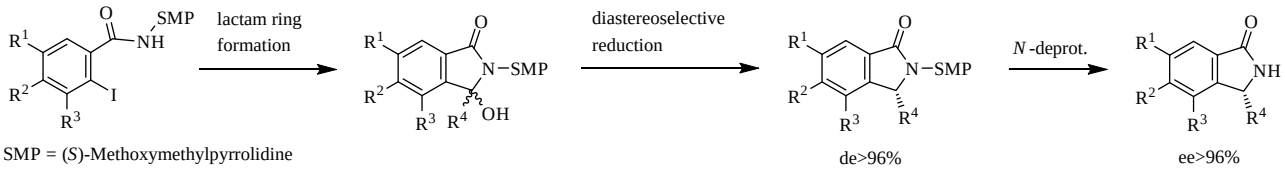


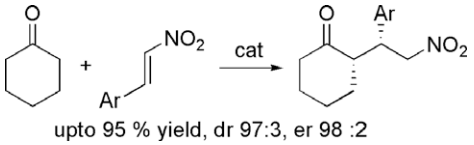


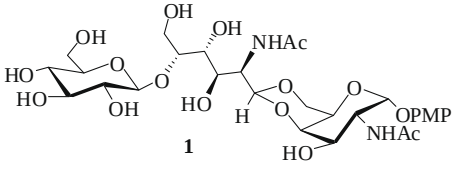












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Amino Acids

Guest editor:
Robert M. Williams

Colorado State University, Fort Collins, Colorado 80523, USA

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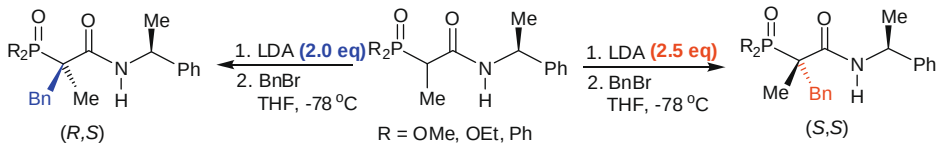

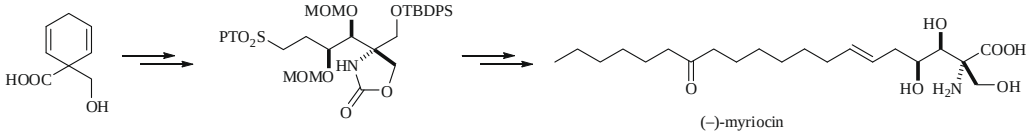

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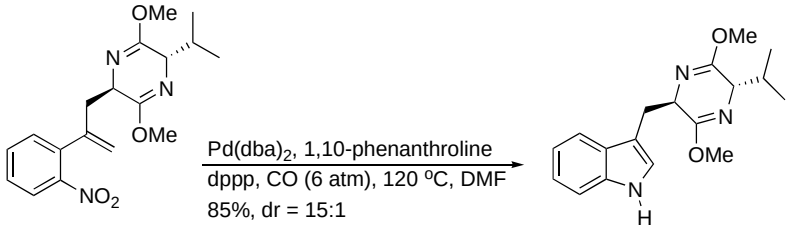
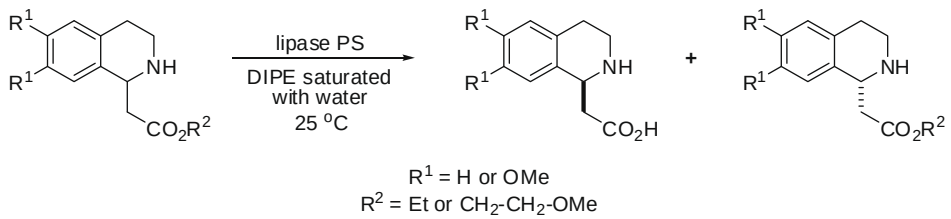
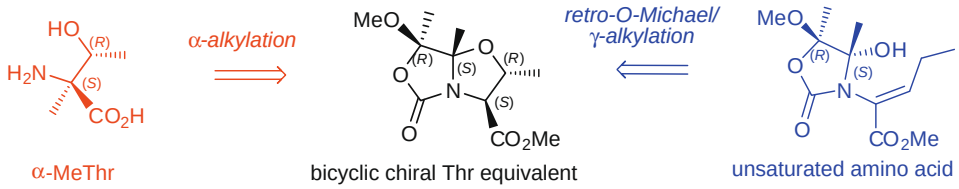
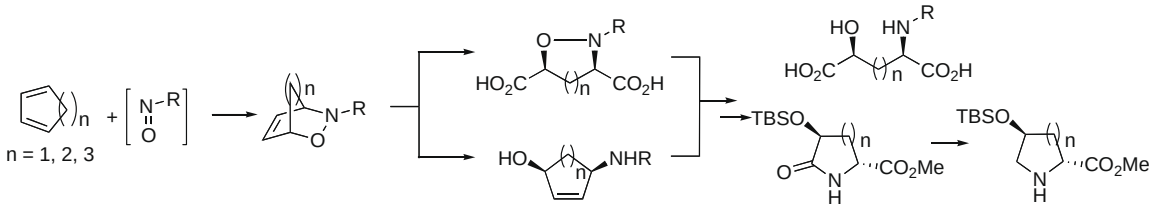
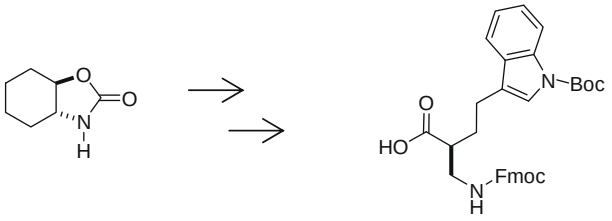


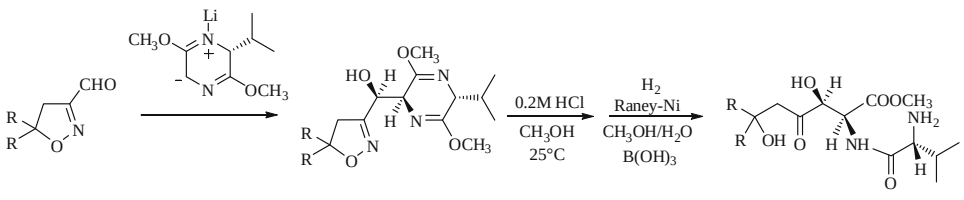


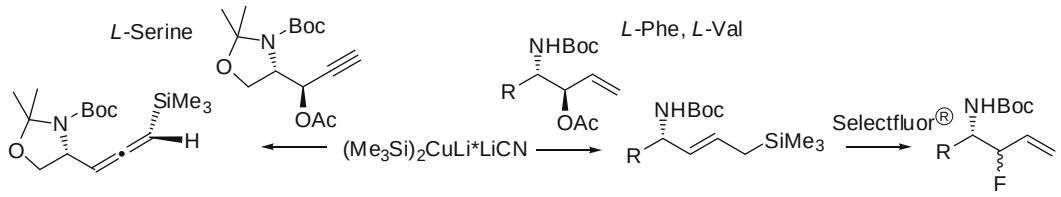


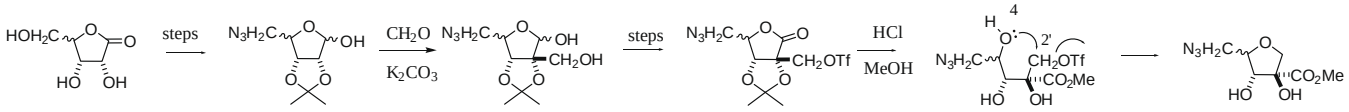


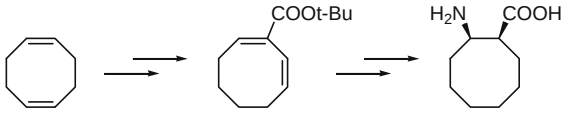


An efficient asymmetric synthetic route that provides both enantiomers of β²-homovaline, β²-homoleucine, and β²-homotryptophan from chiral hexahydrobenzoxazolidinones is described.

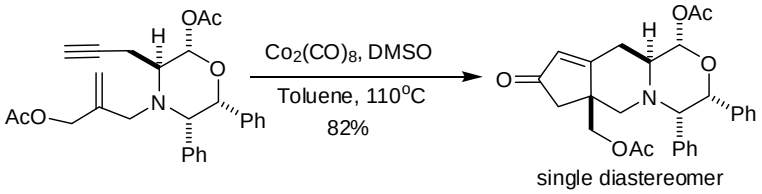


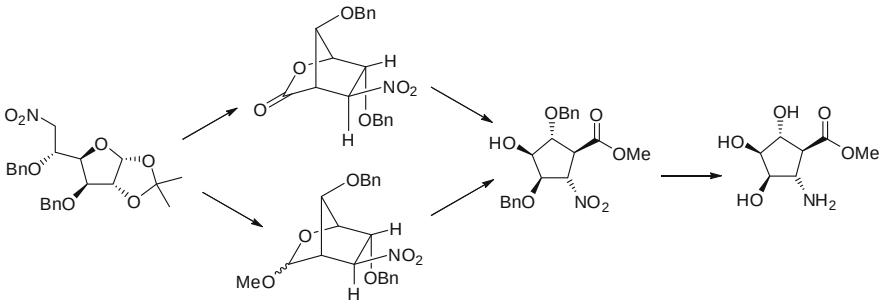


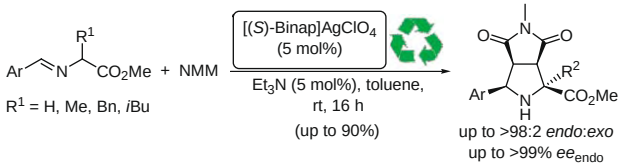


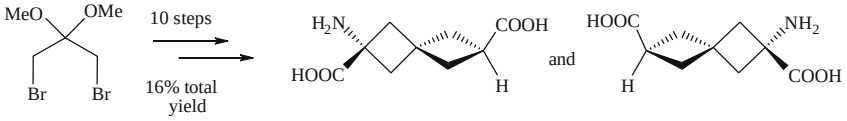


The enantioselective synthesis of *cis*-2-aminocyclooctanecarboxylic acid from cycloocta-1,5-diene is reported.









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