



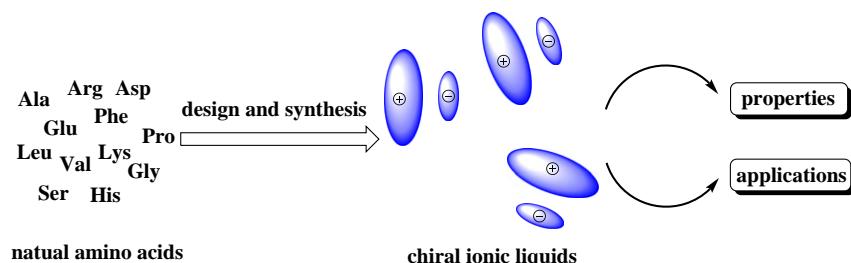
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REPORT

Advances in chiral ionic liquids derived from natural amino acids

Xuewei Chen, Xuehui Li,* Aixi Hu* and Furong Wang

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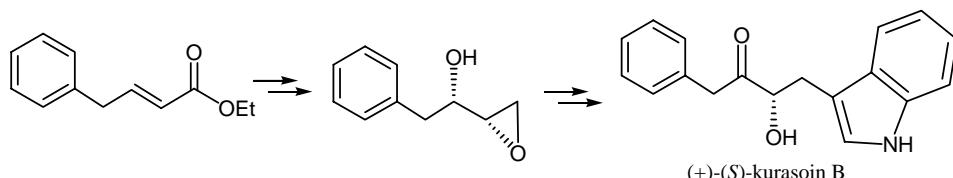


ARTICLES

A short synthesis of (+)-(S)-kurasoin B

Rodney A. Fernandes

pp 15–18

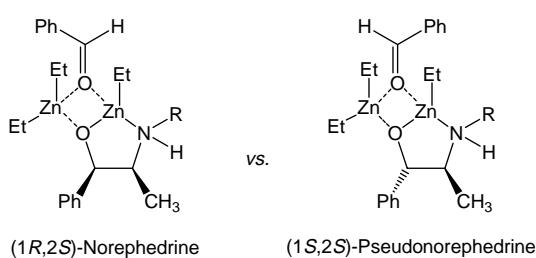


An efficient short enantioselective synthesis leading directly to (+)-(S)-kurasoin B has been achieved in 5 steps and 25% overall yield from (2E)-ethyl-4-phenylbut-2-enoate using Sharpless asymmetric dihydroxylation and CH_3NO_2 -assisted or $\text{Yb}(\text{OTf})_3$ -catalyzed regioselective C-3 coupling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

β -Amino alcohols derived from (1*R*,2*S*)-norephedrine and (1*S*,2*S*)-pseudonorephedrine as catalysts in the asymmetric addition of diethylzinc to aldehydes

asymmetric addition of diethylzinc to alkyl aryl ethers. Raleigh W. Parrott, II and Shawn R. Hitchcock*

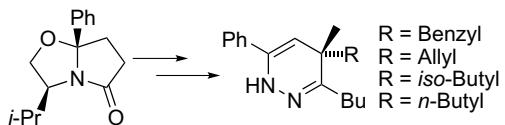
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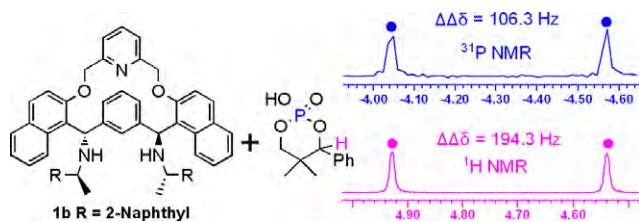
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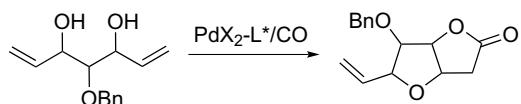
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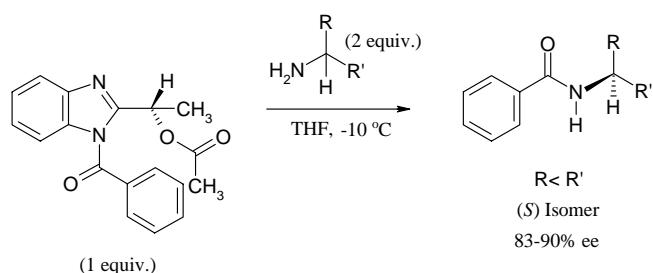
Peter Kapitán and Tibor Gracza*



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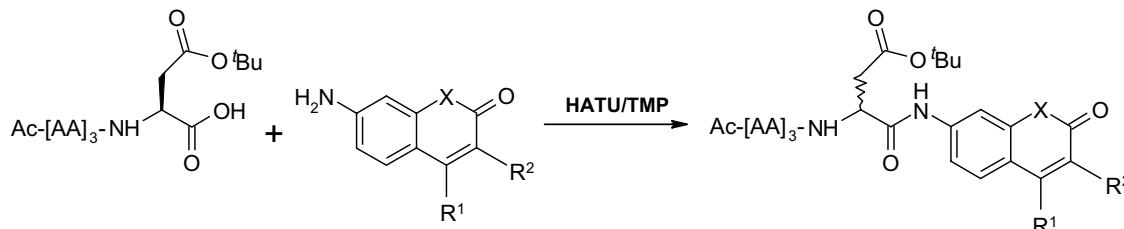
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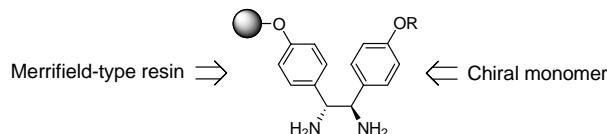
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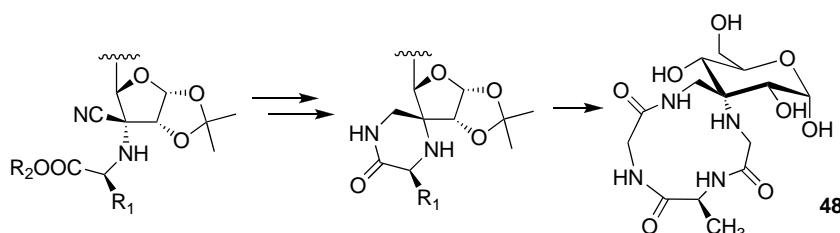
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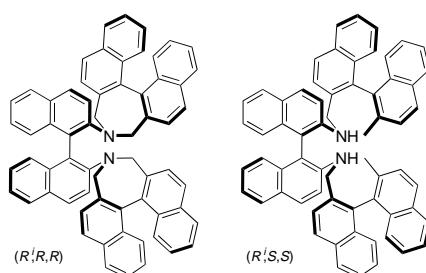
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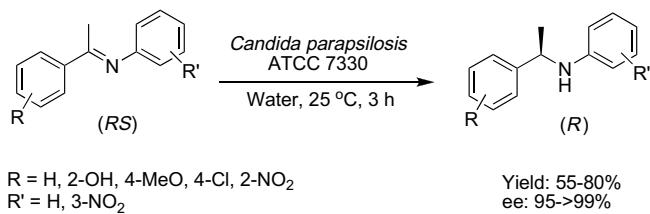
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T. Vaijayanthi and Anju Chadha*

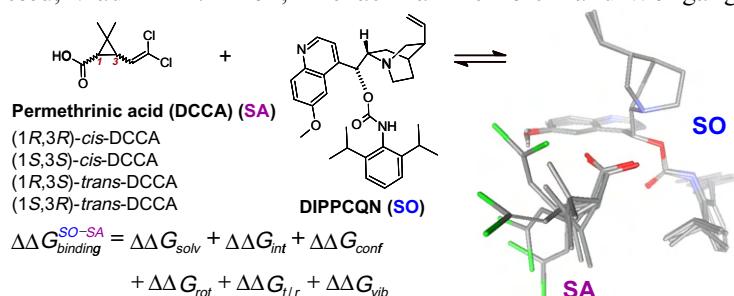
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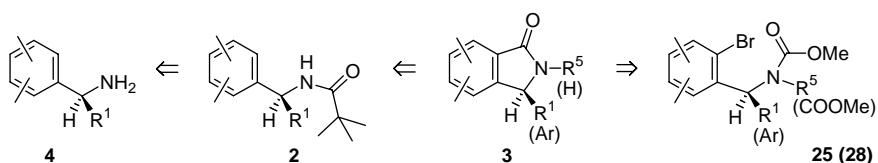
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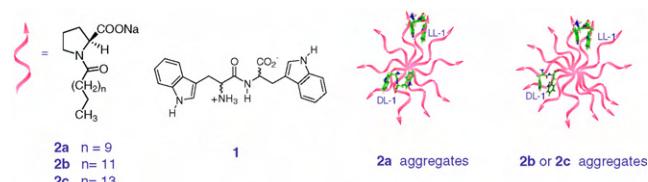
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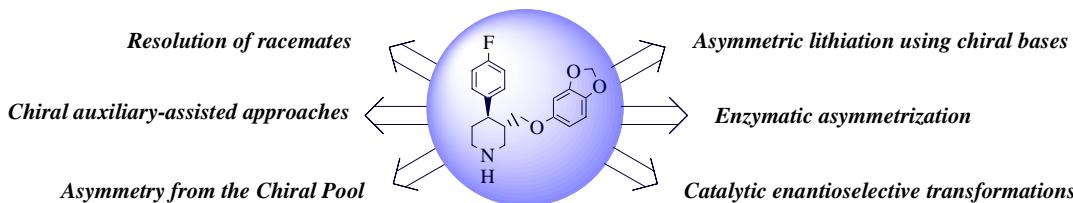
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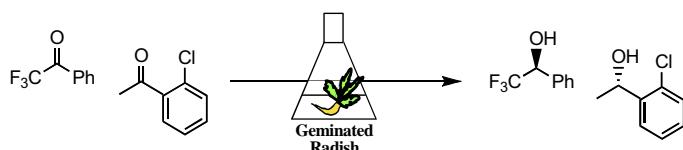
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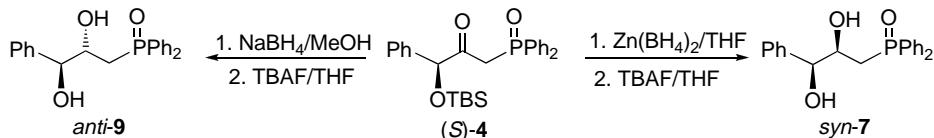
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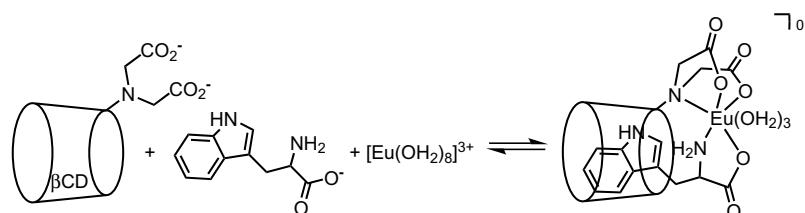
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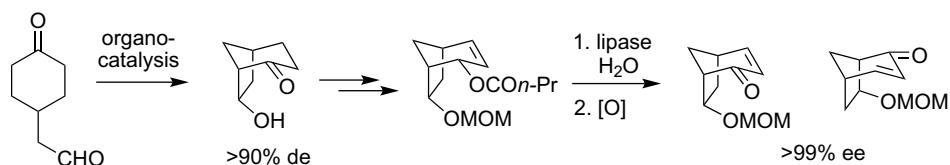
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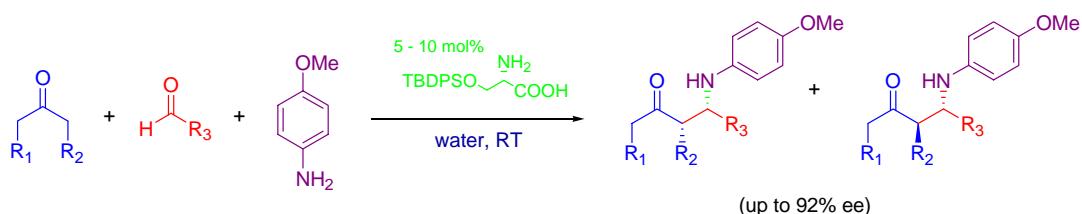
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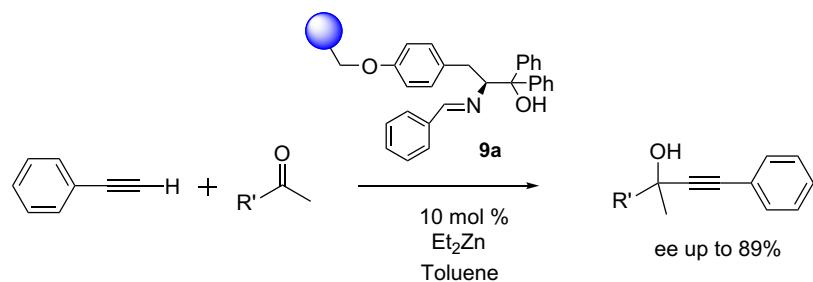
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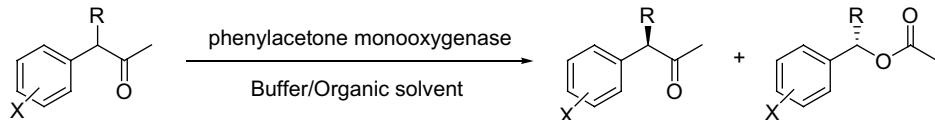
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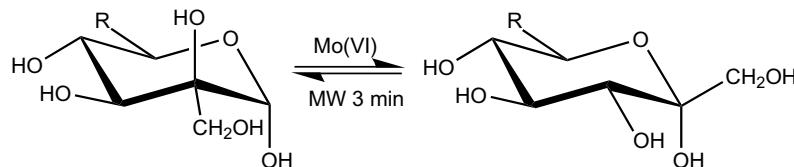
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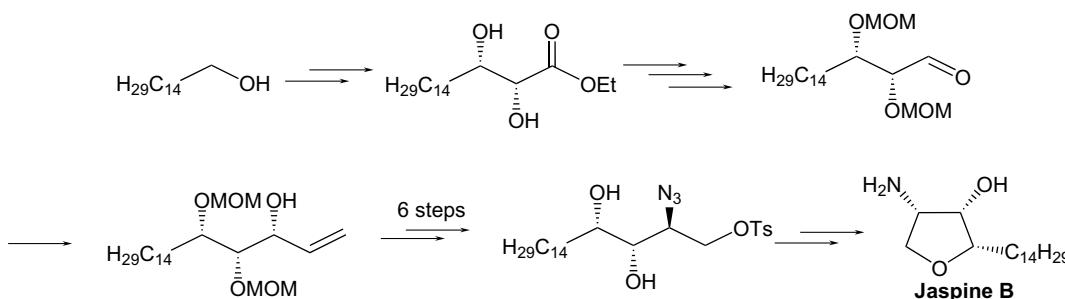
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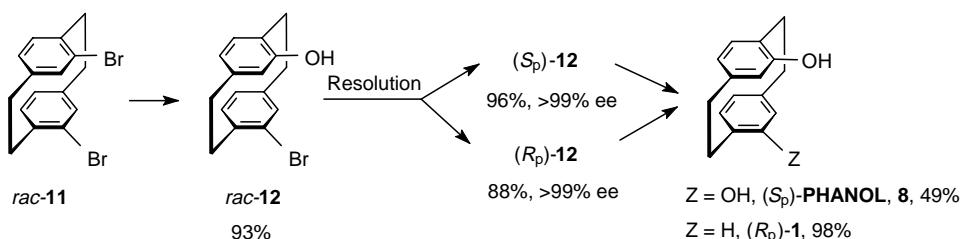
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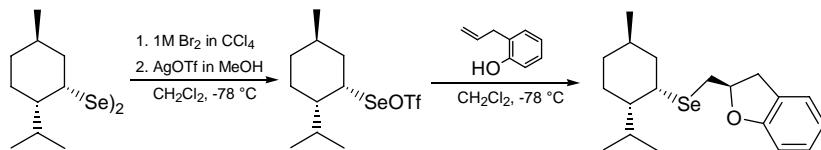
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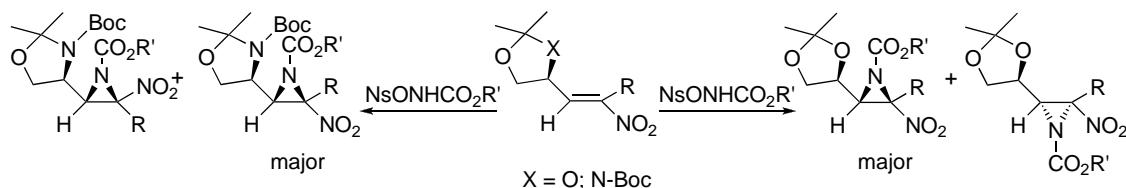
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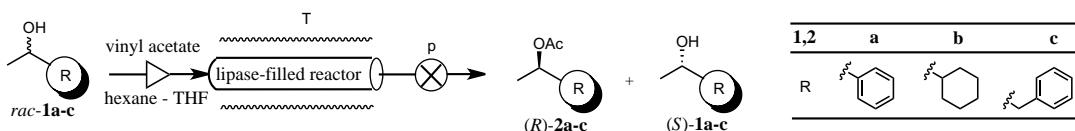
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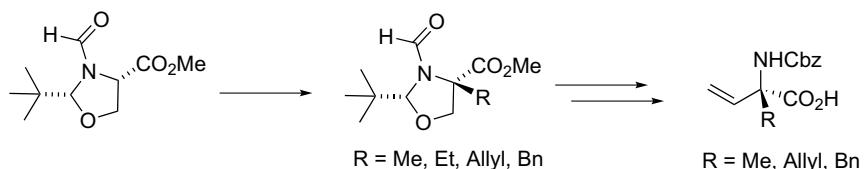
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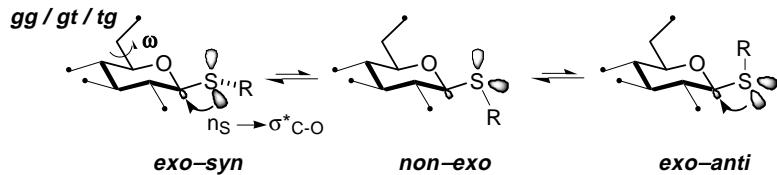
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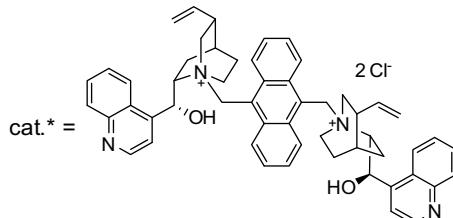
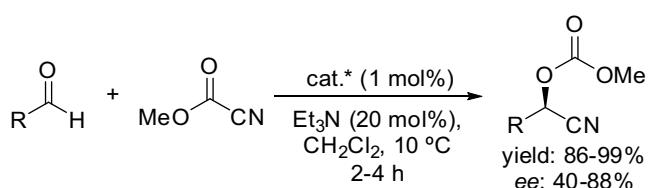
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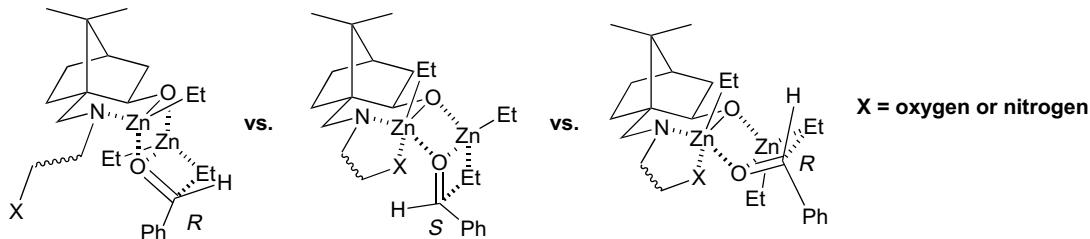
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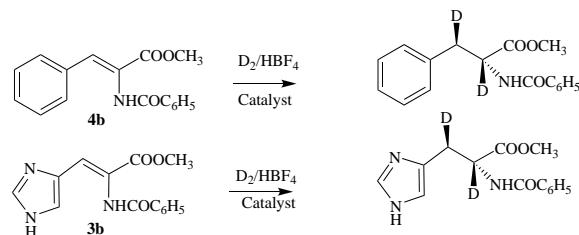
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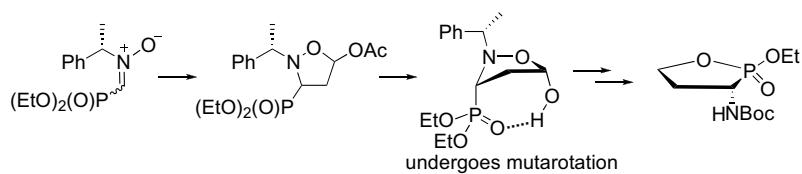
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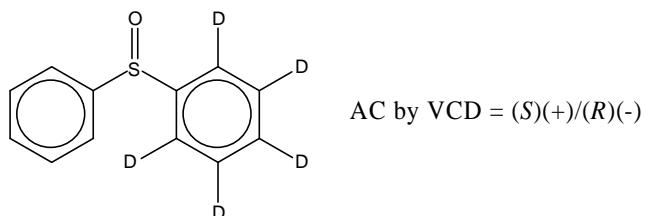
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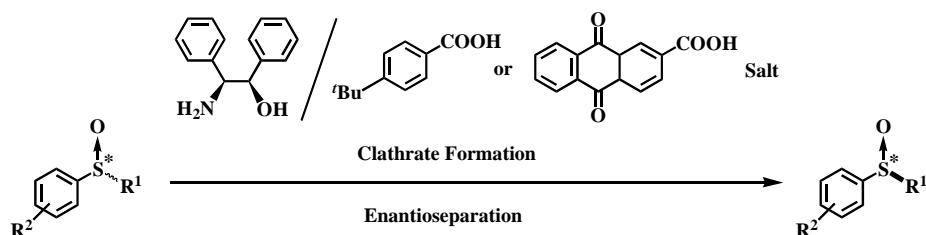
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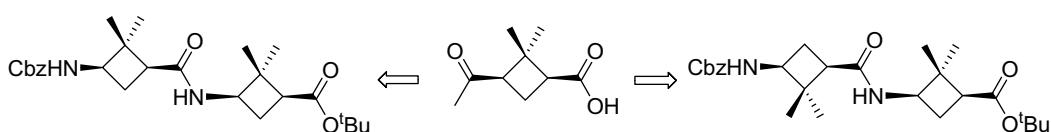
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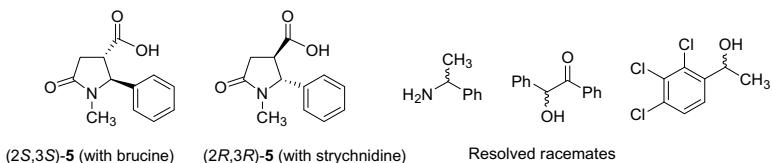
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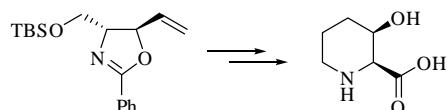
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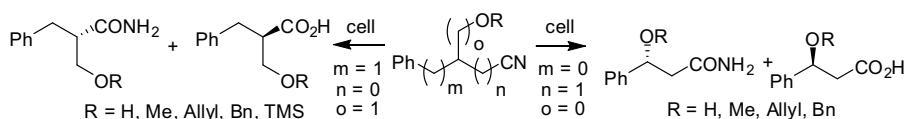
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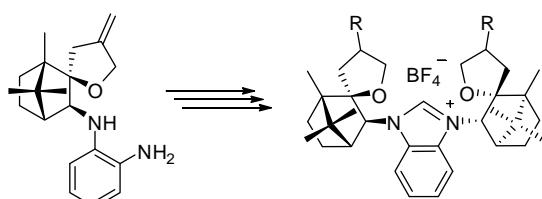
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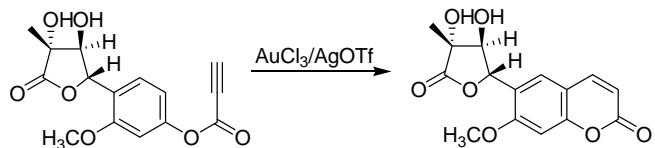
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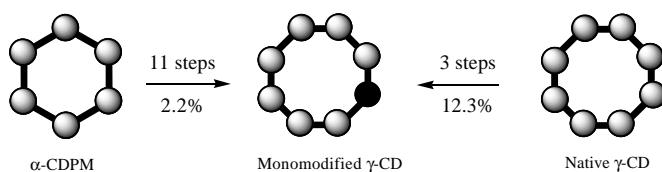
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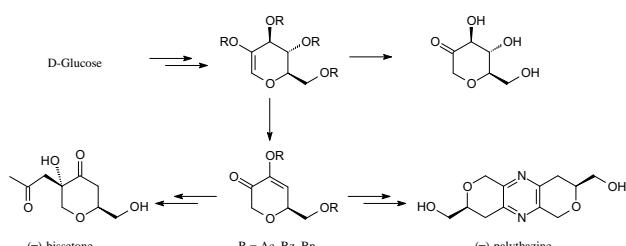
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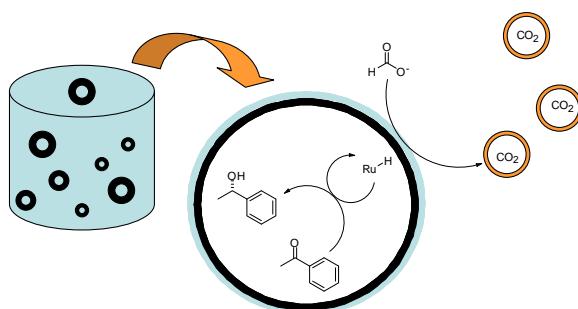
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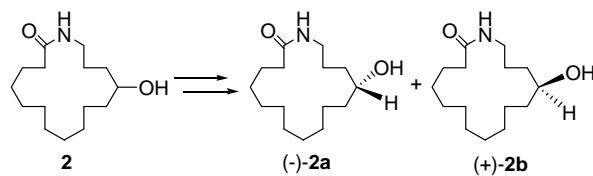
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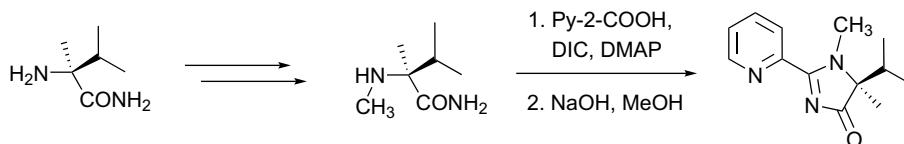
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Synthesis of (R)- and (S)-2-N-methylamino-2,3-dimethylbutanamides and (R)- and (S)-(5-isopropyl-1,5-dimethyl-4,5-dihydro-1H-imidazol-4-on-2-yl)pyridines

Pavel Drabina,* Miloš Sedláček, Aleš Růžička, Andrej V. Malkov and Pavel Kočovský

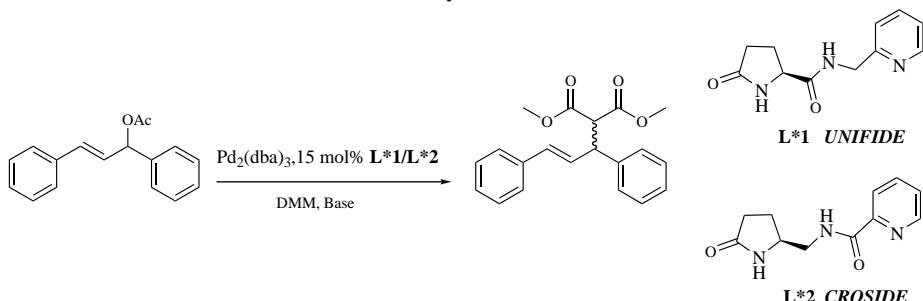
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New chiral diamide ligands: synthesis and application in allylic alkylation

Lorraine Bateman, Simon W. Breeden and Patrick O’Leary*

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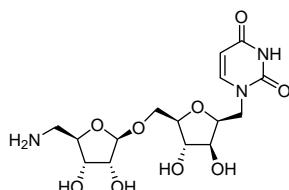


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Efficient synthesis of a bacterial translocase MraY inhibitor

Anthony Clouet, Christine Gravier-Pelletier,* Bayan Al-Dabbagh, Ahmed Bouhss and Yves Le Merrer*

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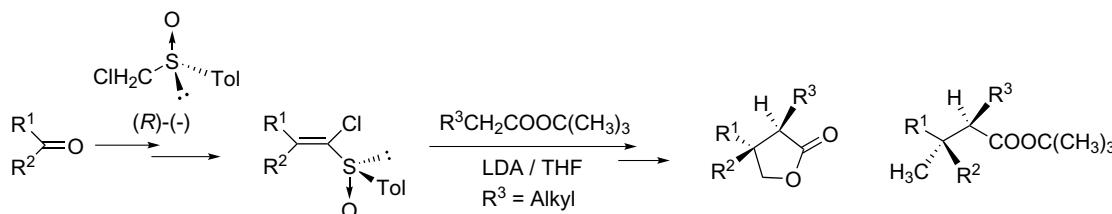


The synthesis of a powerful inhibitor of the bacterial translocase MraY (81% inhibition at 2 mM) is described.

An asymmetric synthesis of esters and γ -lactones with simultaneous construction of vicinal stereogenic carbons at the α - and β -position starting from optically active 1-chlorovinyl *p*-tolyl sulfoxides

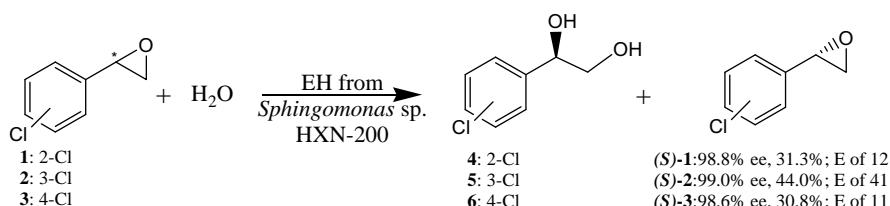
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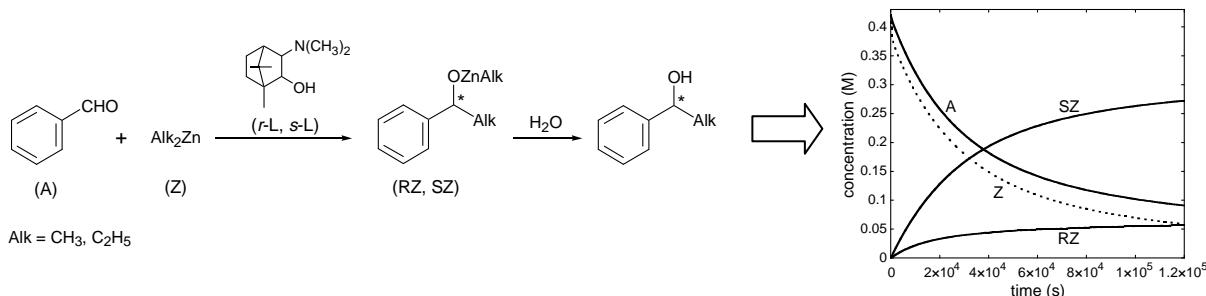
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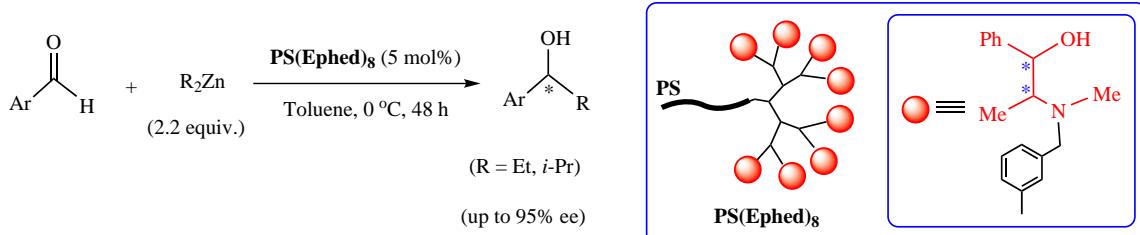
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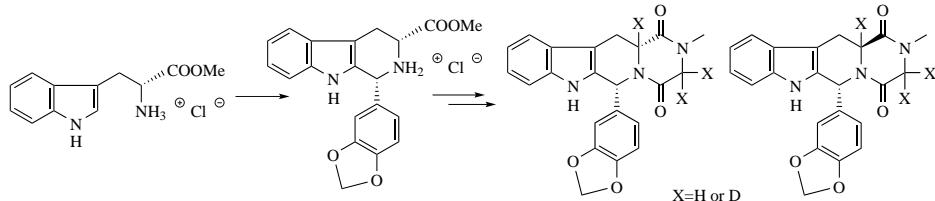
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Highly stereoselective Pictet–Spengler reaction of D-tryptophan methyl ester with piperonal: convenient syntheses of Cialis (Tadalafil), 12a-*epi*-Cialis, and their deuterated analogues

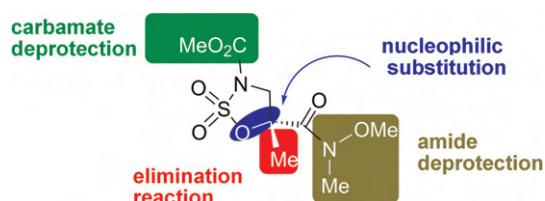
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Highly chemoselective reactions on hindered sulfamides with oxygenated nucleophiles
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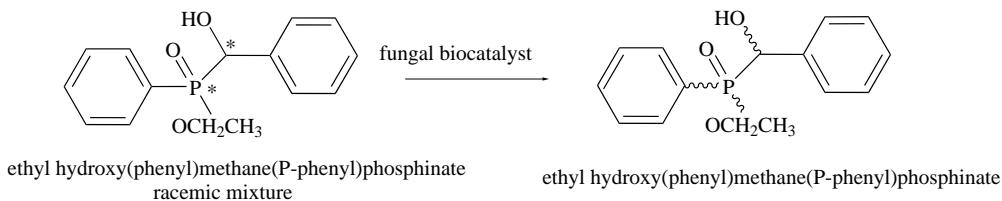
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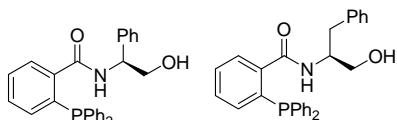
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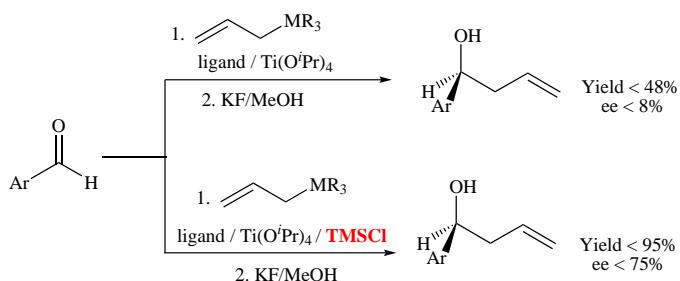
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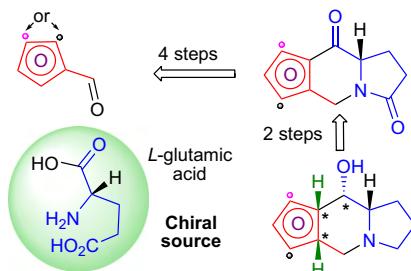
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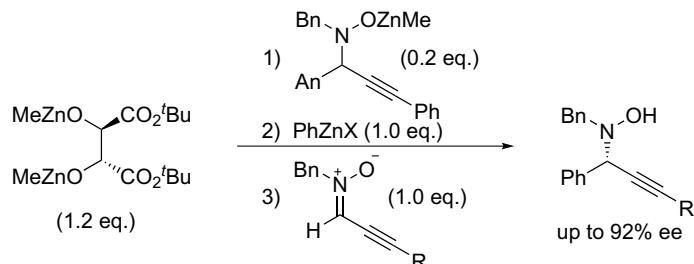
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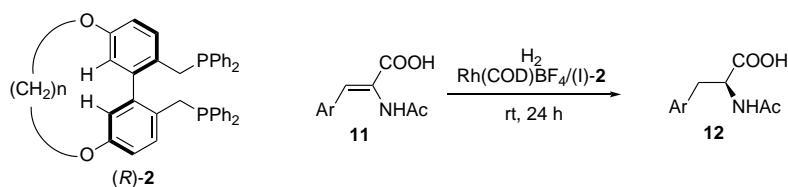
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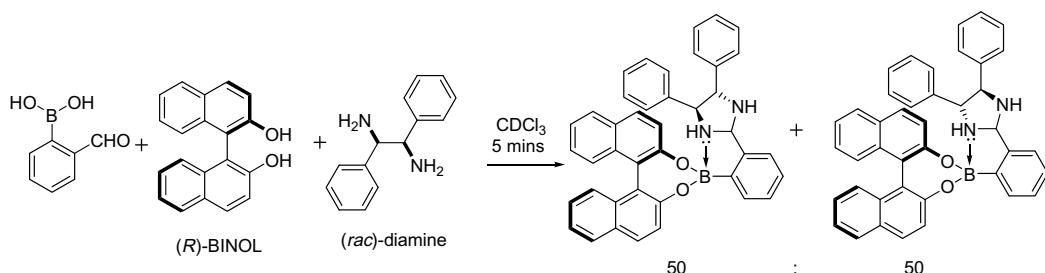
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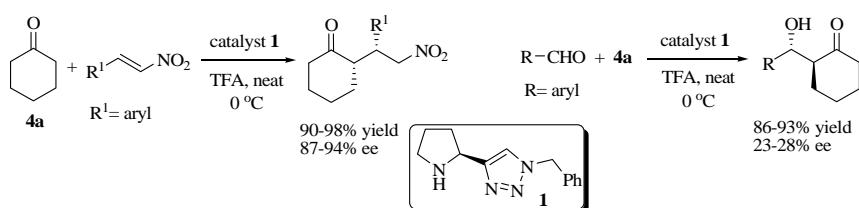
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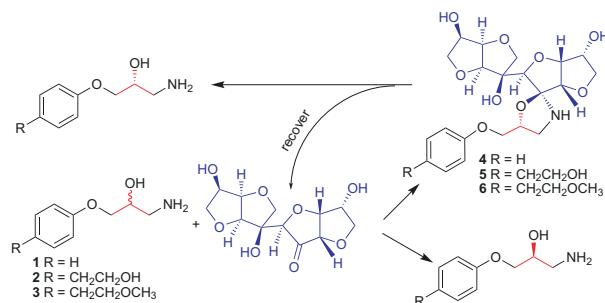
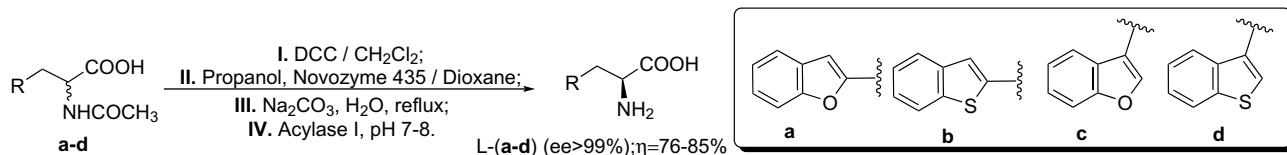


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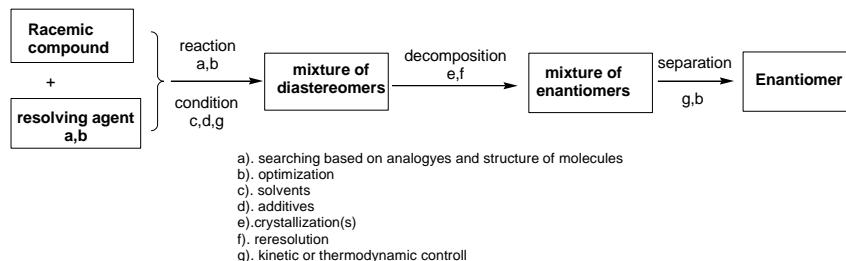
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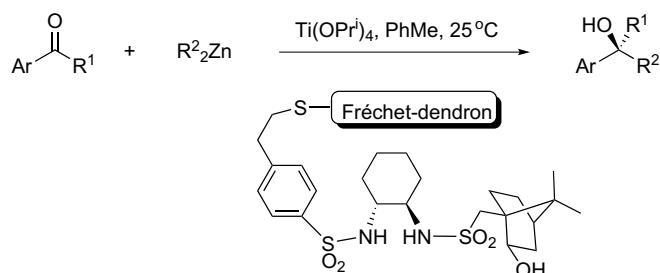
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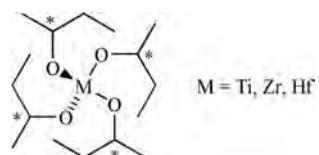
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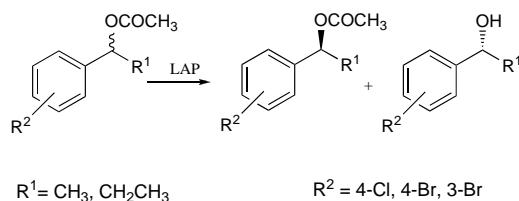
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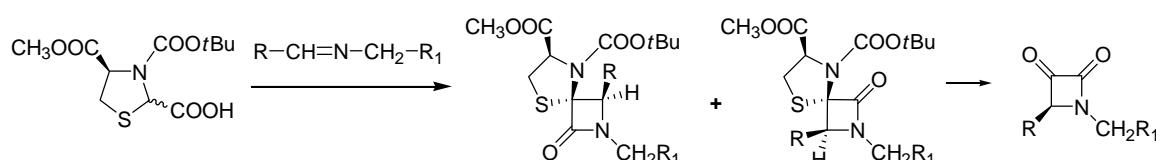
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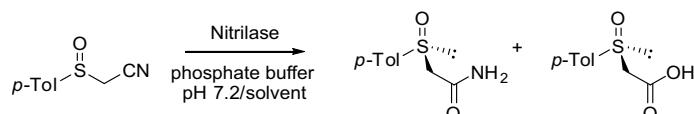
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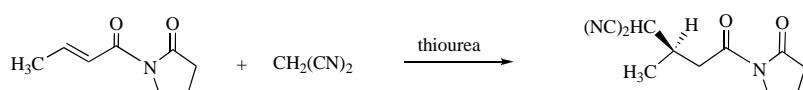
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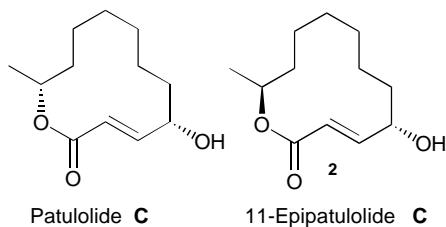
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Total synthesis of patulolide C and 11-epipatulolide C
Kagita Veera Babu and Gangavaram V. M. Sharma *

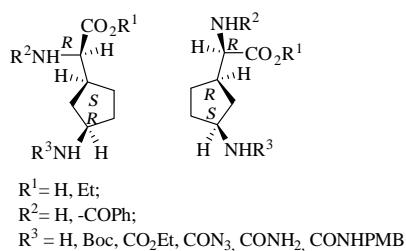
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Total synthesis of patulolide C and 11-epipatulolide C from 1,8-octane diol is reported.

A new efficient synthesis of enantiopure diastereomeric 3'-aminocyclopentylglycines
Maria Luisa Gelmi, Francesca Clerici, Raffaella Gandolfi and Sara Pellegrino *

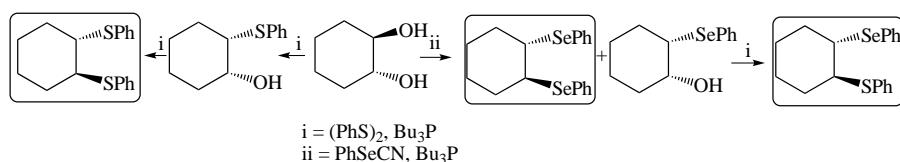
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R¹ = H, Et;
R² = H, -COPh;
R³ = H, Boc, CO₂Et, CON₃, CONH₂, CONHPMB

Novel C₂-symmetric chiral ligands: enantioselective transformation of cyclic 1,2-diols into 1,2-bis(phenylsulfenyl) and 1,2-bis(phenylselenyl) derivatives
Elżbieta Wojaczyńska and Jacek Skarżewski *

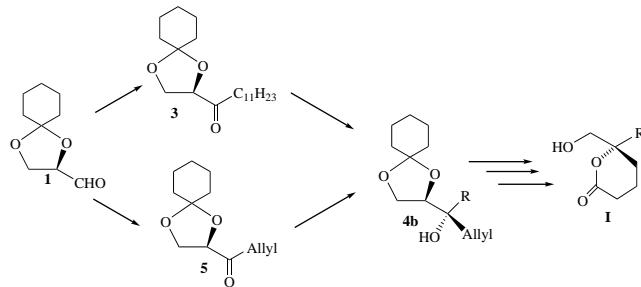
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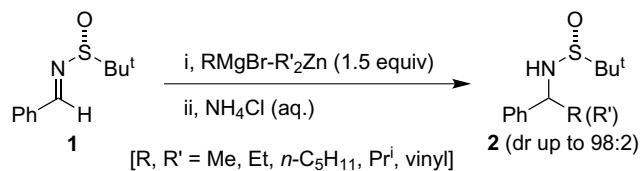
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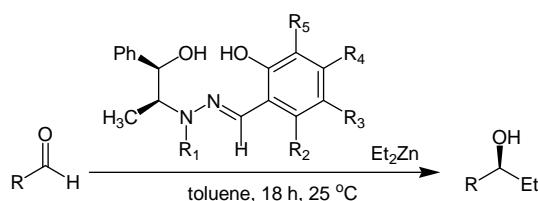
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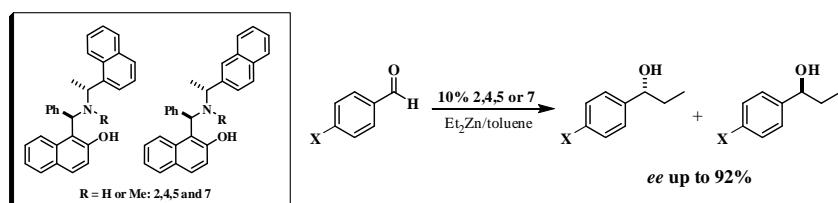
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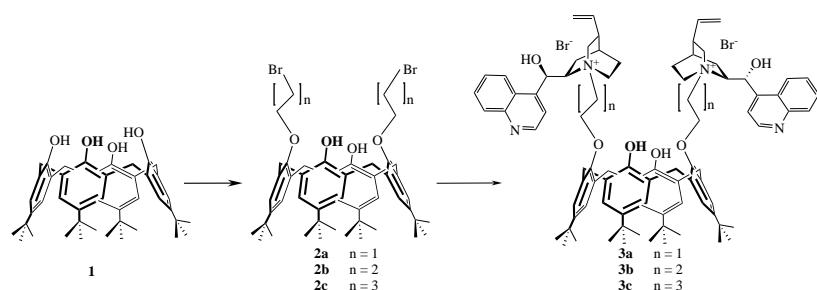
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Calixarene-based chiral phase-transfer catalysts derived from cinchona alkaloids for enantioselective synthesis of α -amino acids

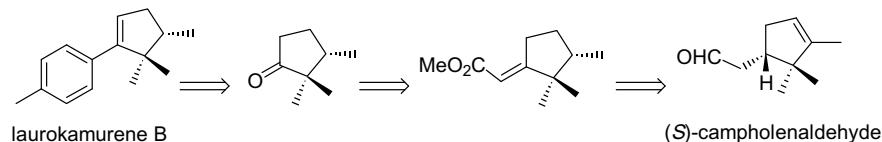
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Enantioselective total synthesis and assignment of the absolute configuration of (+)-laurokamurene B
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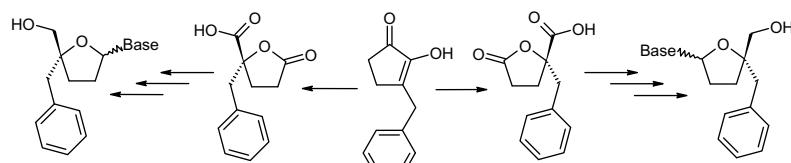
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Asymmetric synthesis of 4'-C-benzyl-2',3'-dideoxynucleoside analogues from 3-benzyl-2-hydroxy-2-cyclopenten-1-one

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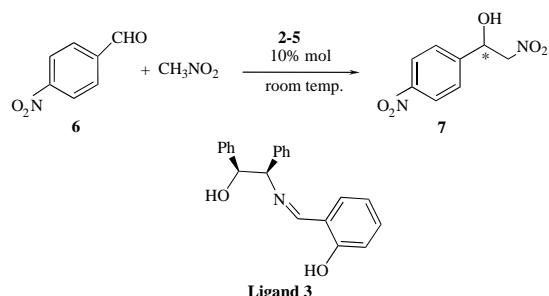
Artur Jõgi, Marit Ilves, Anne Paju, Tõnis Pehk, Tiiu Kailas, Aleksander-Mati Müürisepp and Margus Lopp *



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

Enantioselective nitroaldol (Henry) reaction catalyzed by chiral Schiff-base ligands
Mehmet Çolak and Nadir Demirel *

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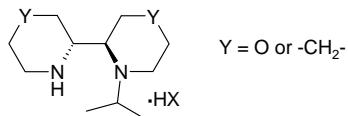


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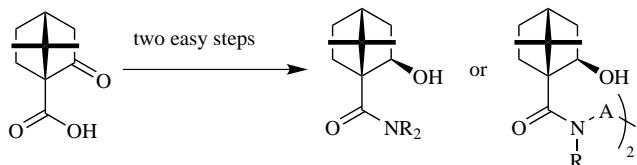


Biomorpholine based catalysts ($Y = O$) were found to be more efficient and reactive than bipiperidine derivatives ($Y = -CH_2-$) in intramolecular and intermolecular aldol reactions.

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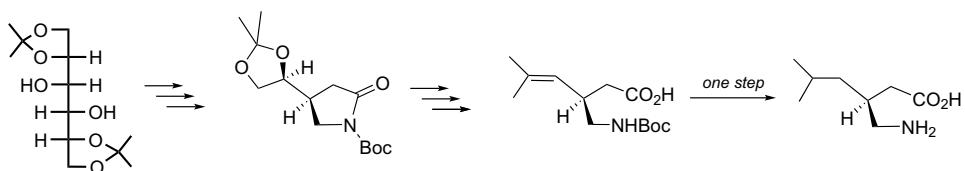


Chiral ligands for the enantioselective diethylzinc addition to benzaldehyde in absence of titanium (up to 90% ee). R and A = alkyl chains.

Stereoselective and efficient synthesis of (S)-pregabalin from D-mannitol

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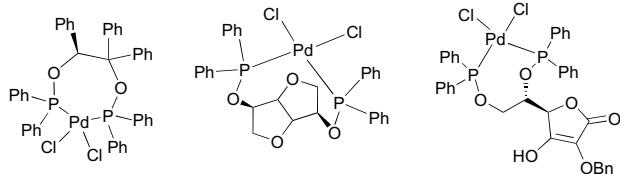
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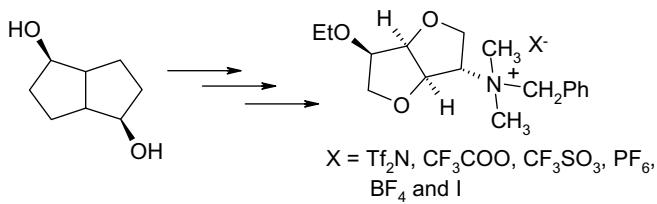
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Rakesh K. Sharma, Munirathnam Nethaji and Ashoka G. Samuelson*

**Novel carbohydrate-based chiral ammonium ionic liquids derived from isomannide**

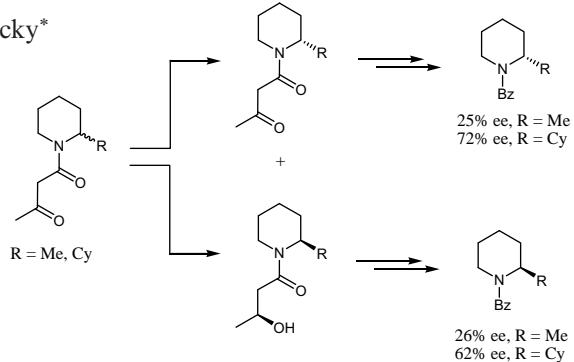
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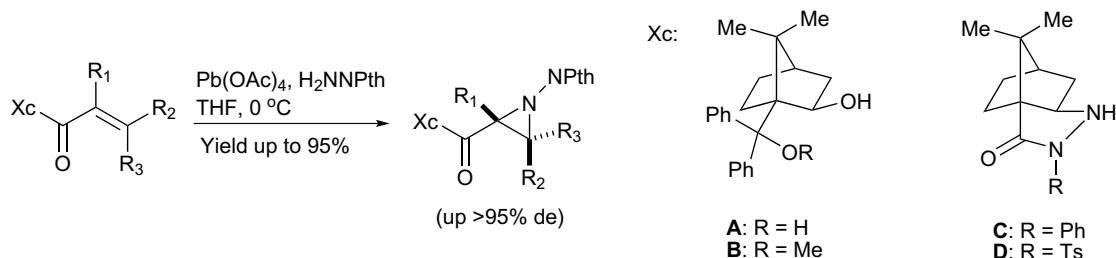
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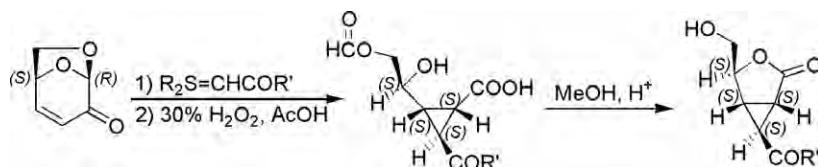
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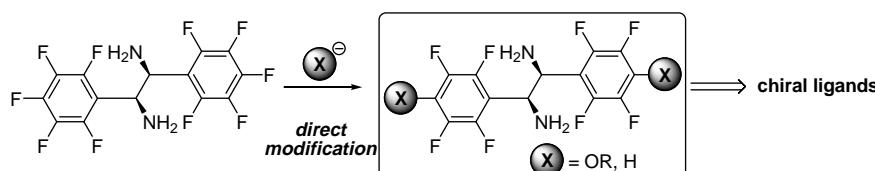
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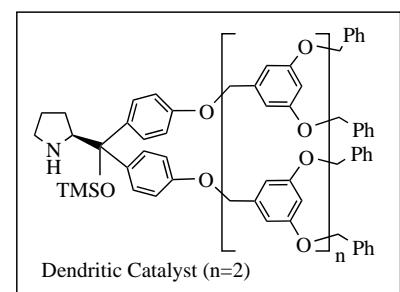
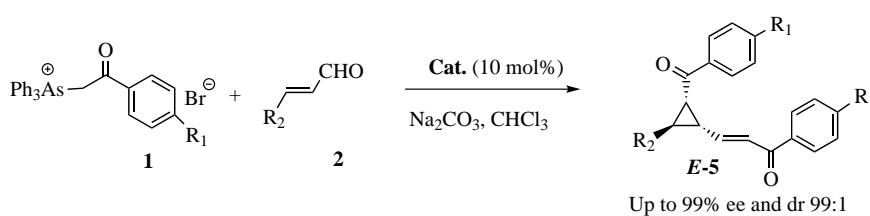
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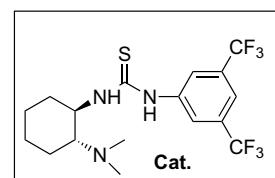
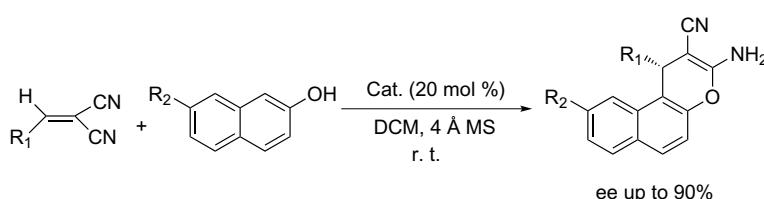
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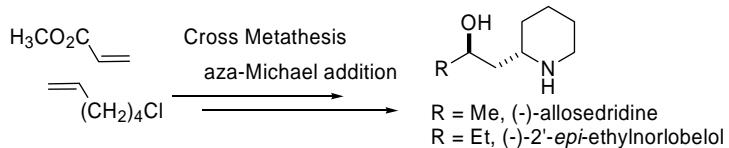
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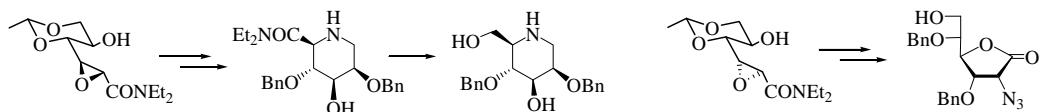
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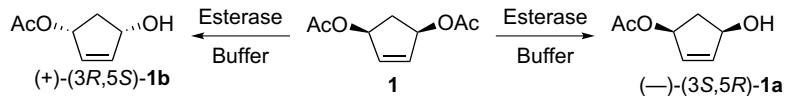
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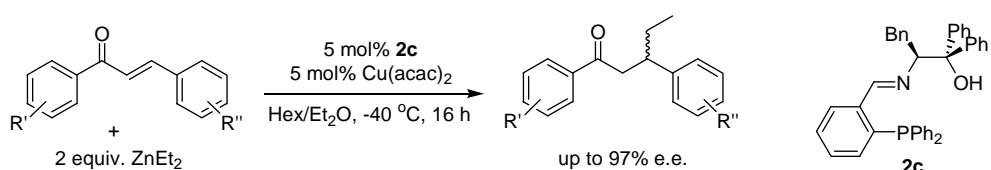
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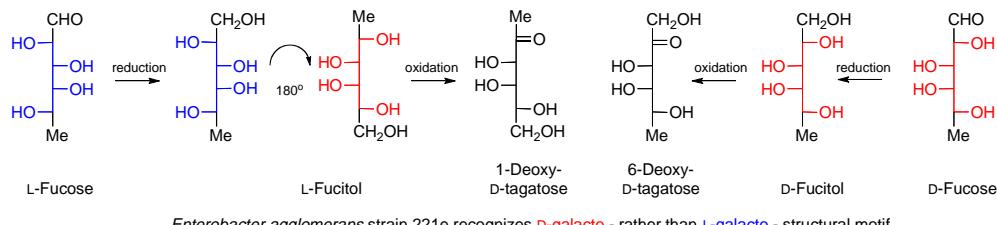
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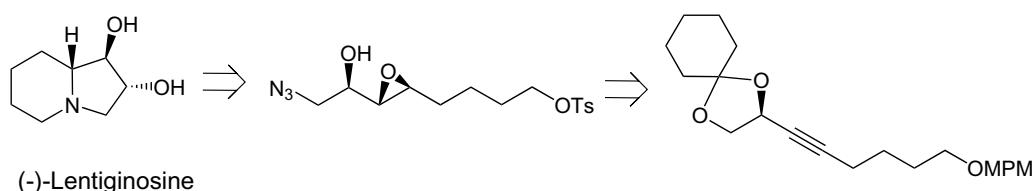
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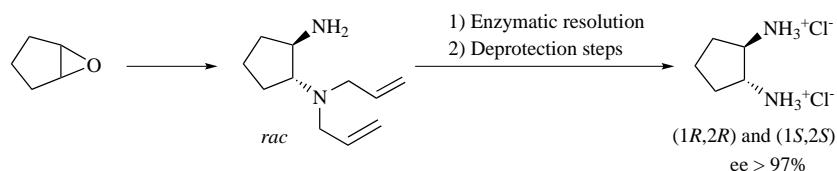
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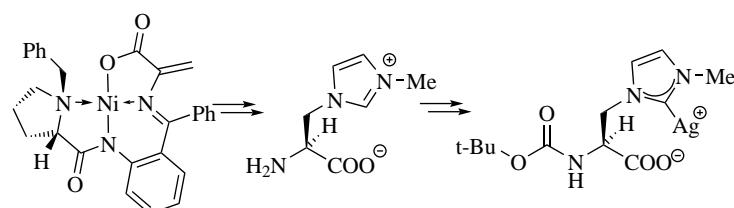
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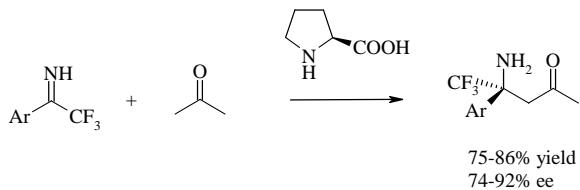
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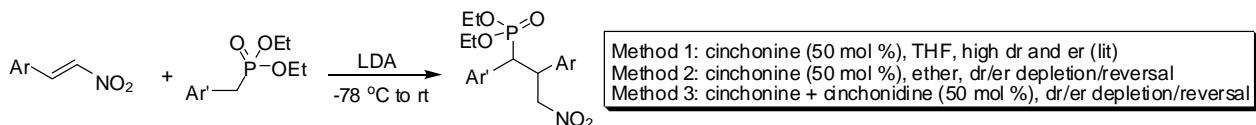


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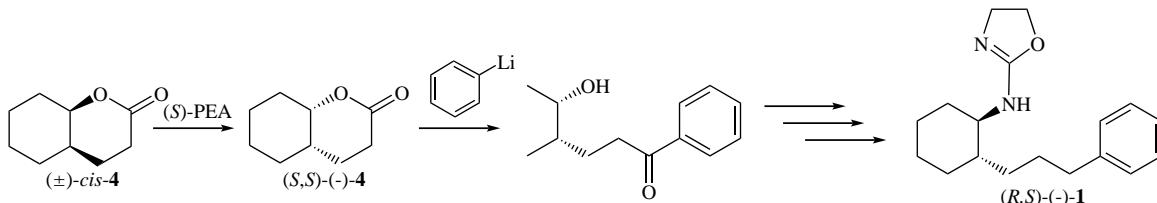
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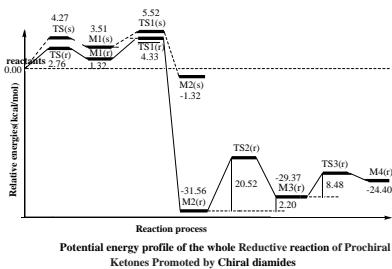
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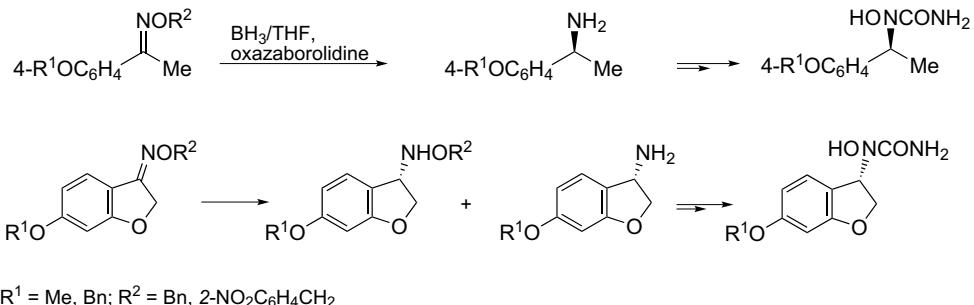
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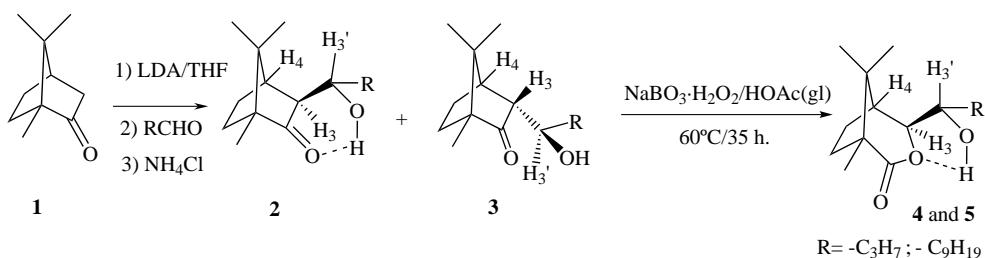
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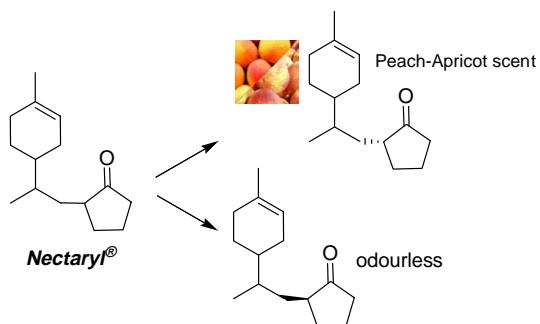
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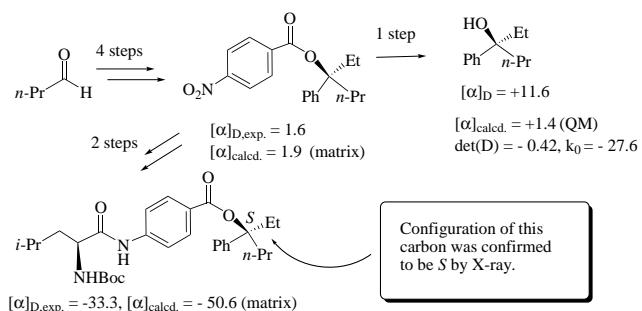
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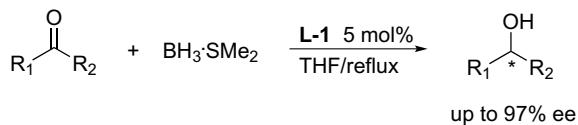
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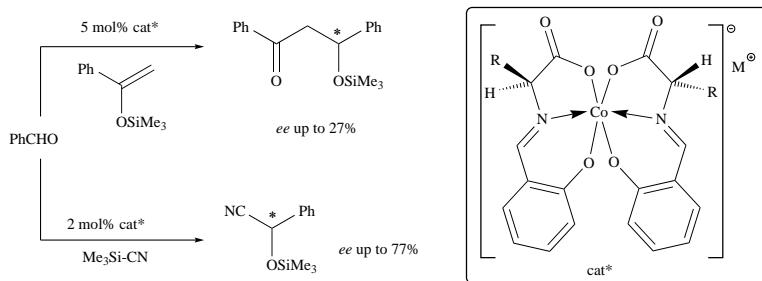
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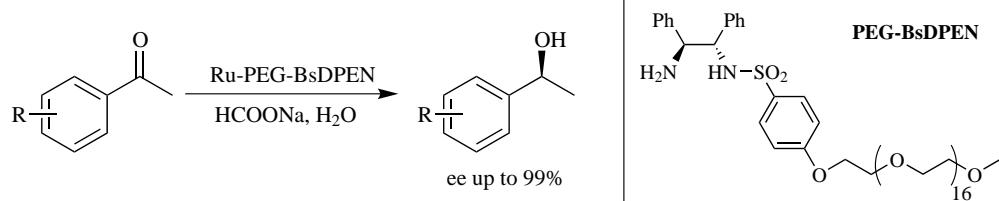
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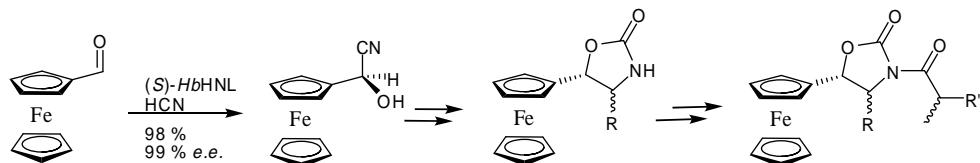
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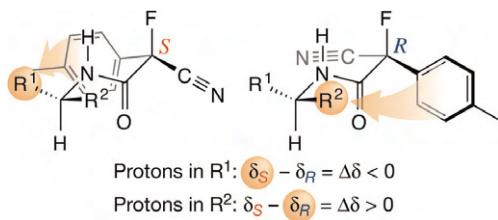
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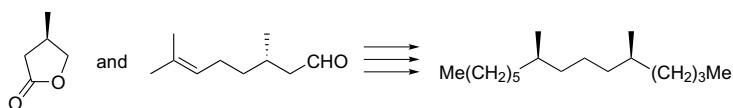
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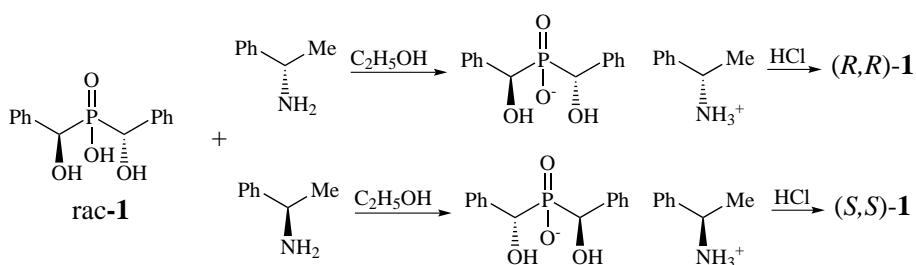
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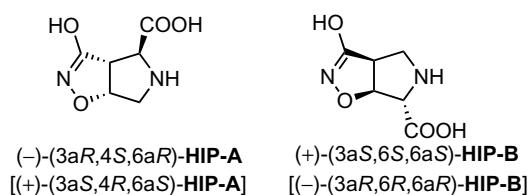
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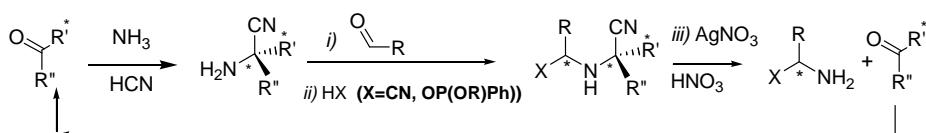
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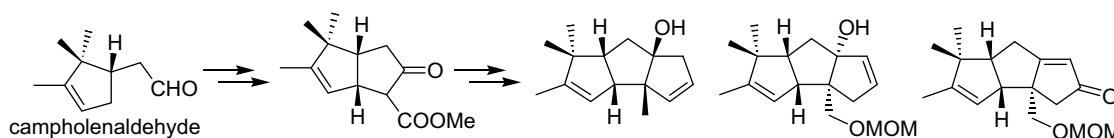
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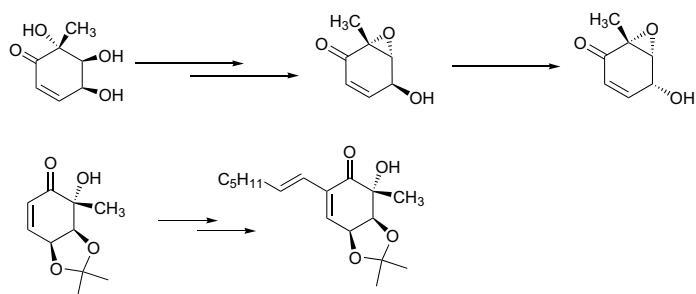


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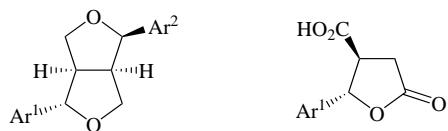
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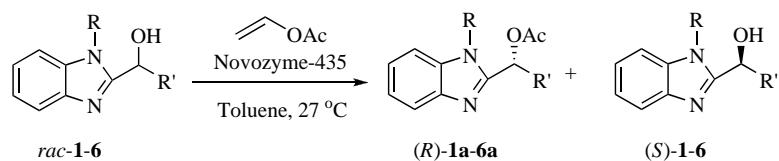
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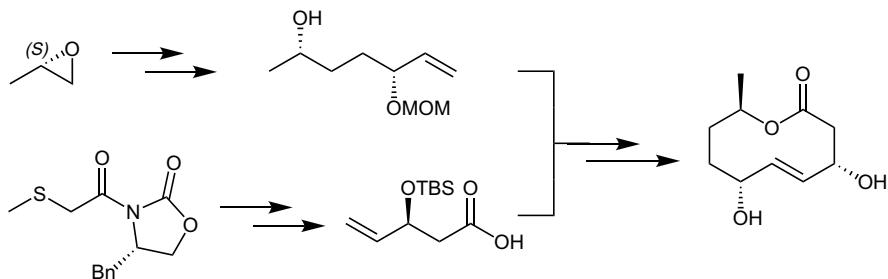
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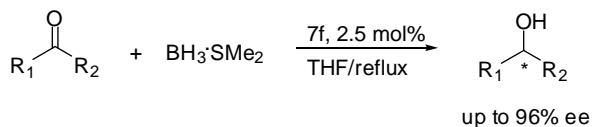
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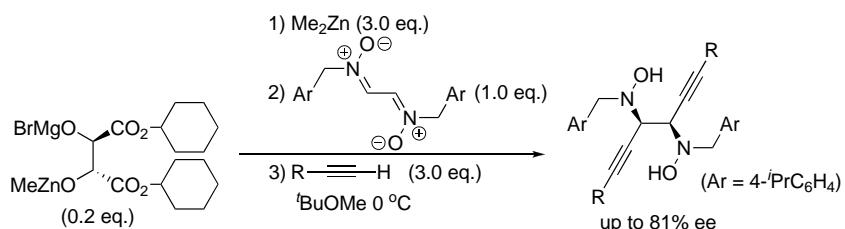
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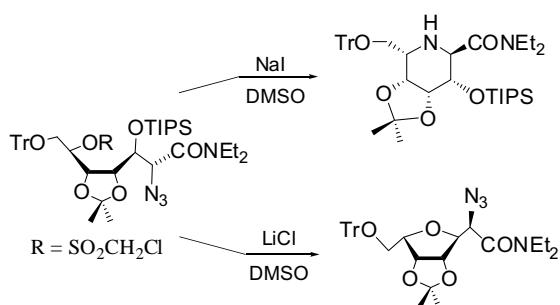
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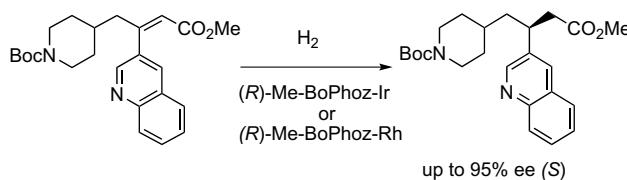
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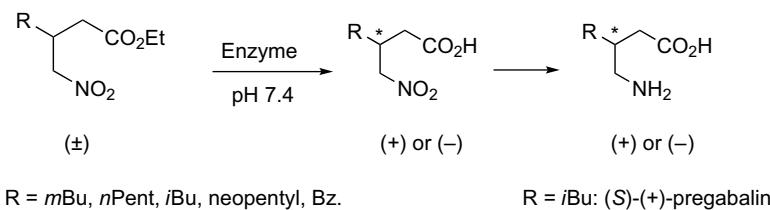
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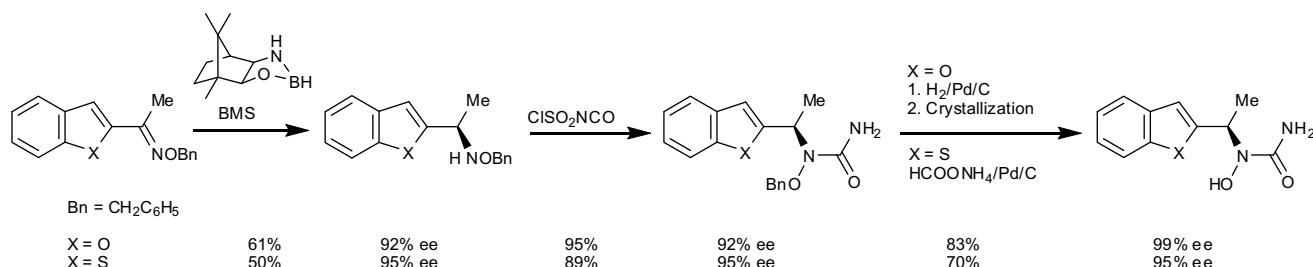
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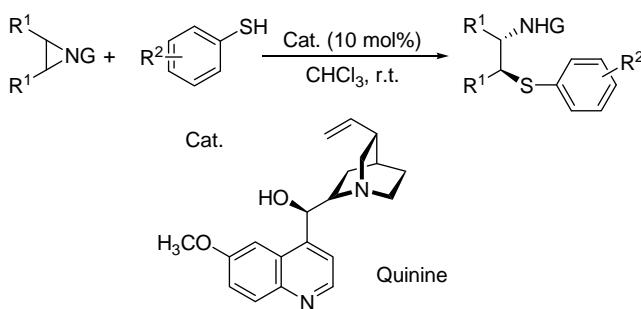
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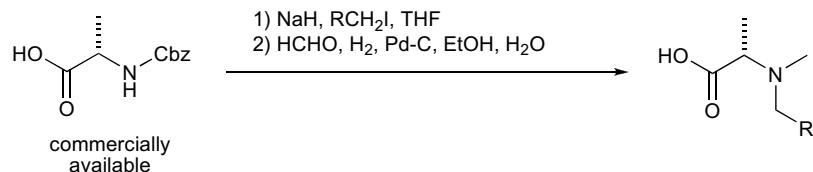
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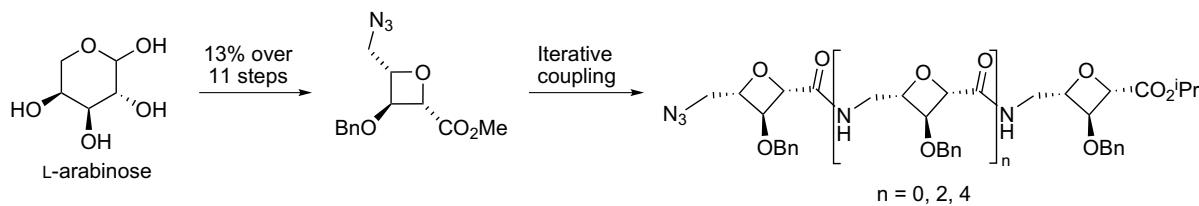
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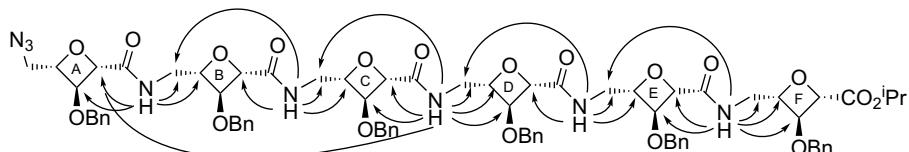
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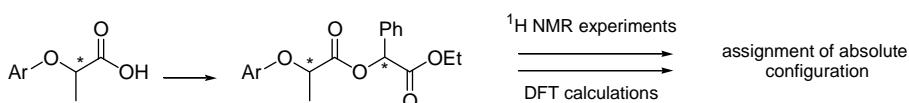


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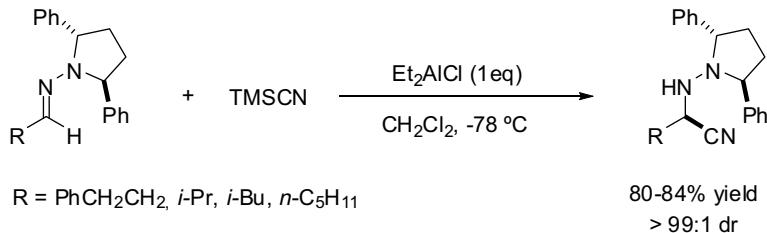
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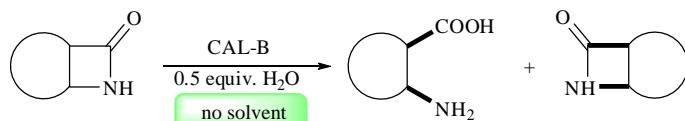
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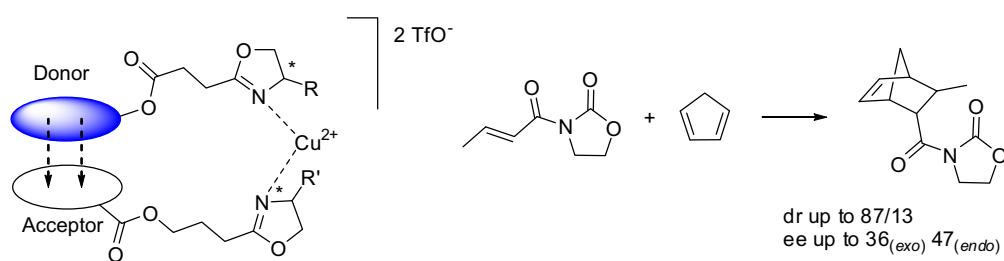
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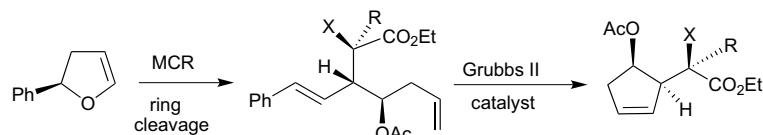
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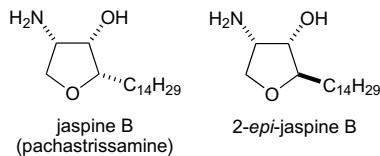


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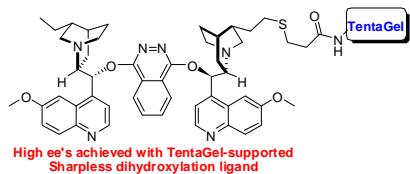


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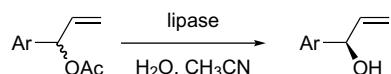
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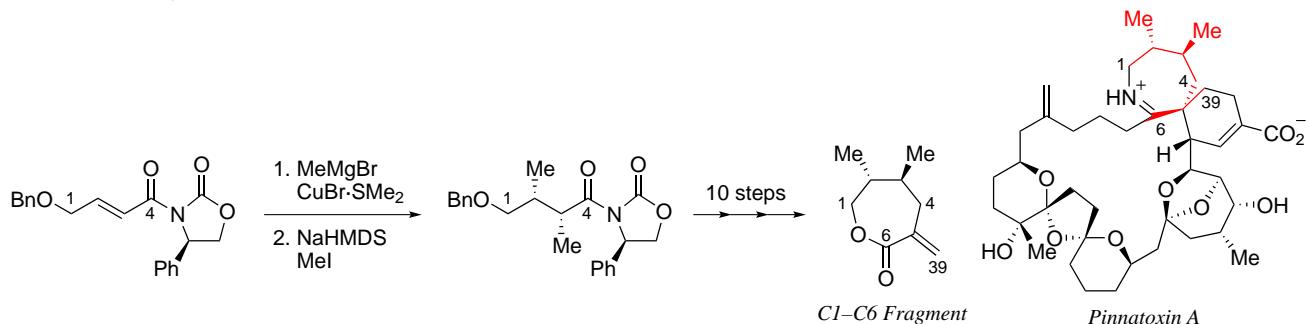
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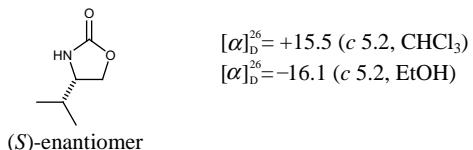
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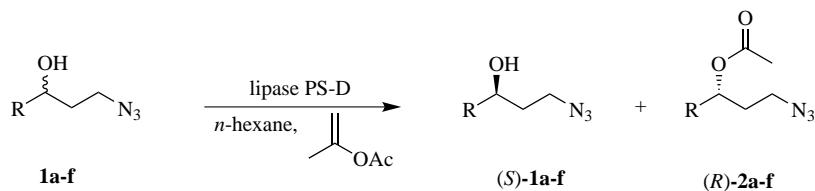
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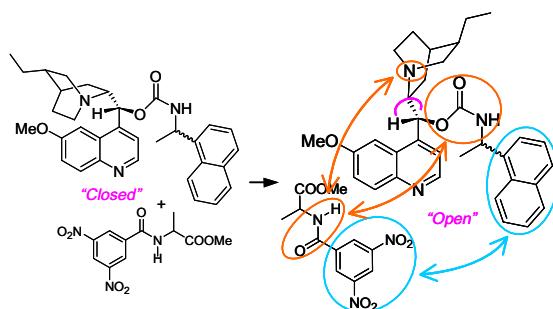
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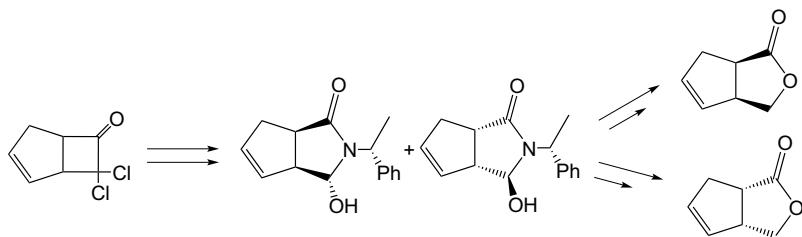
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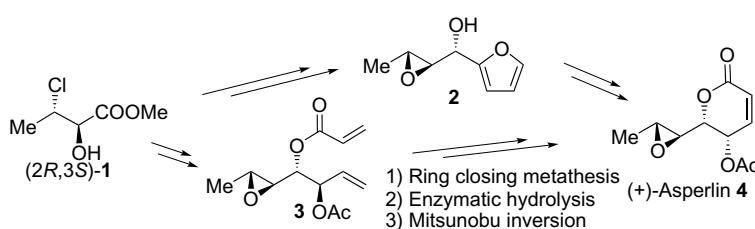
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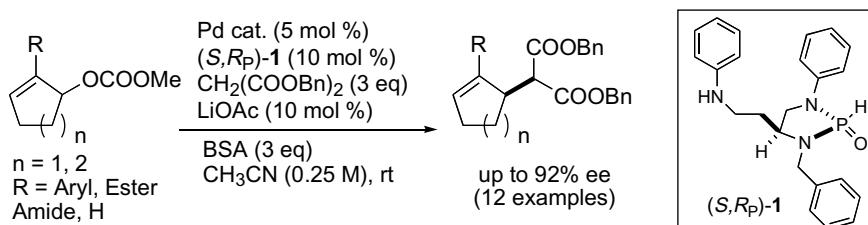
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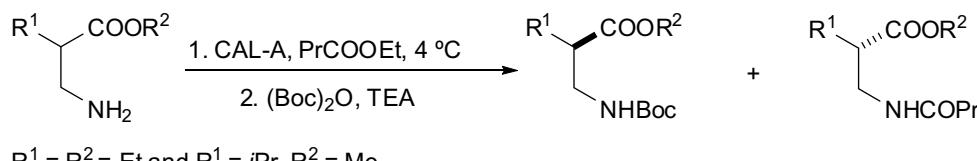
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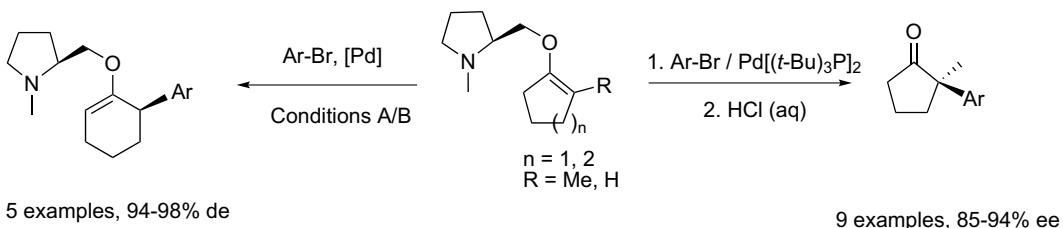


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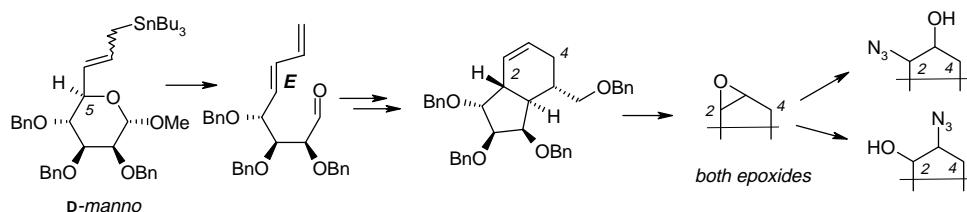
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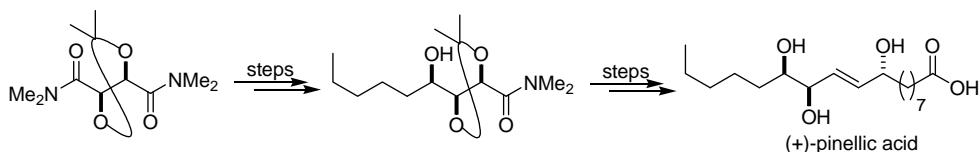
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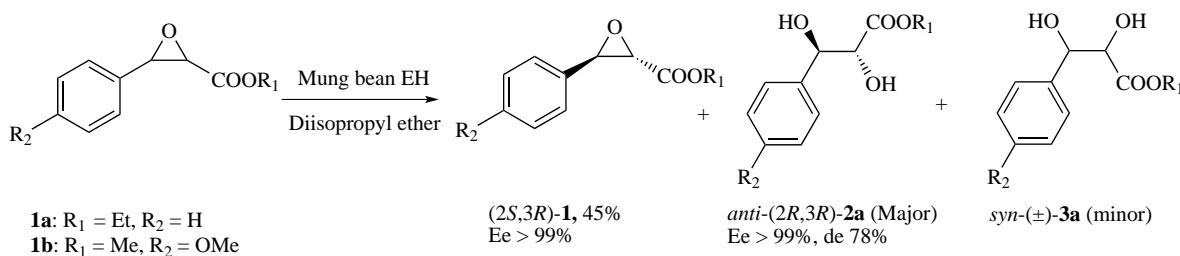
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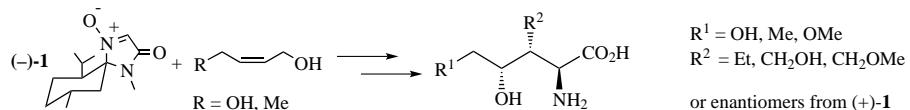
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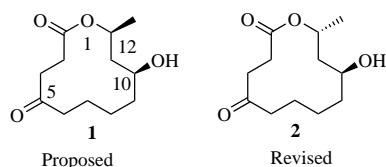
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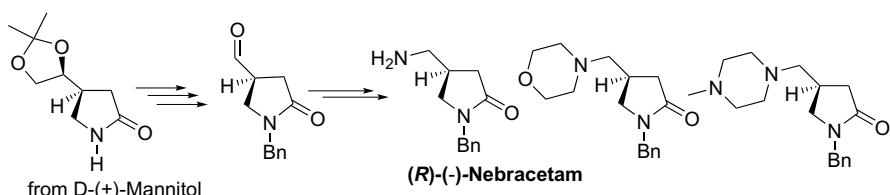
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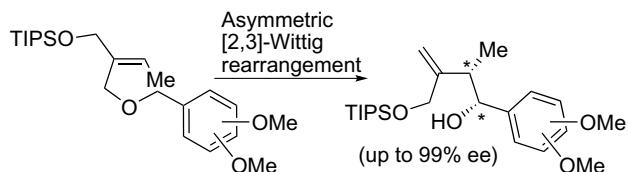
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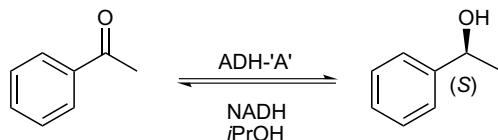
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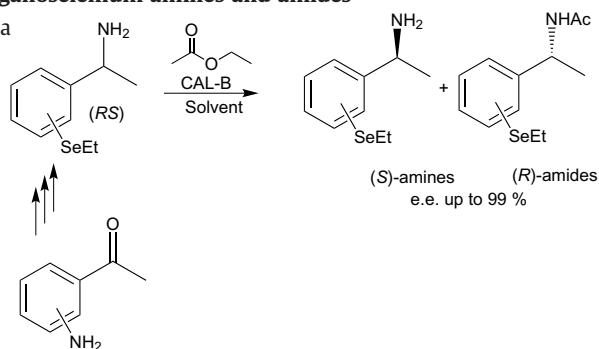
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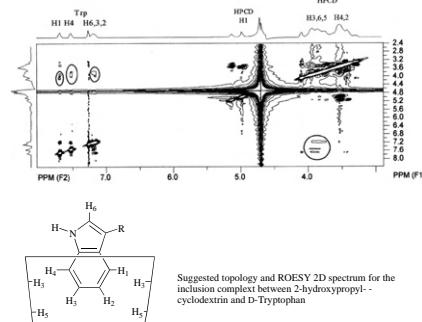
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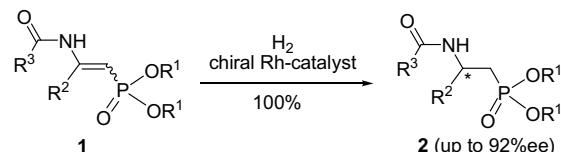
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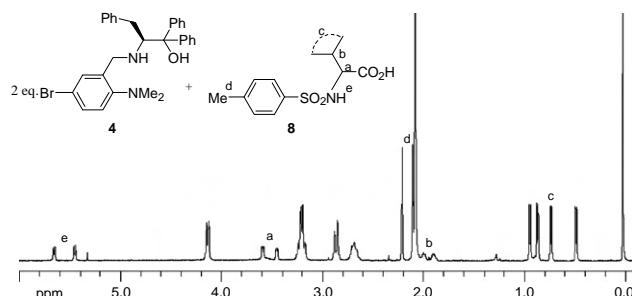
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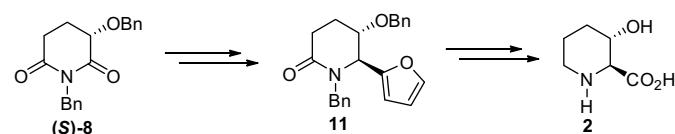
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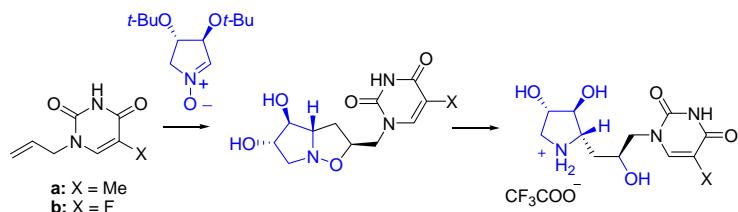
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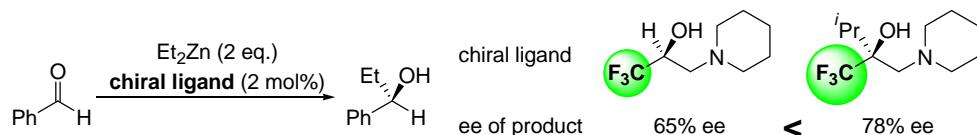
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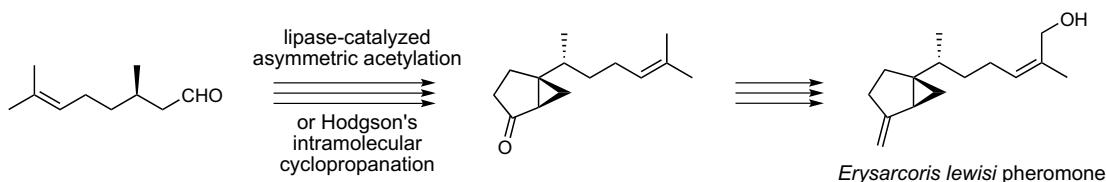
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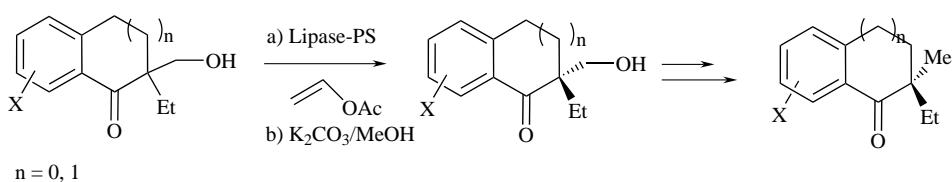
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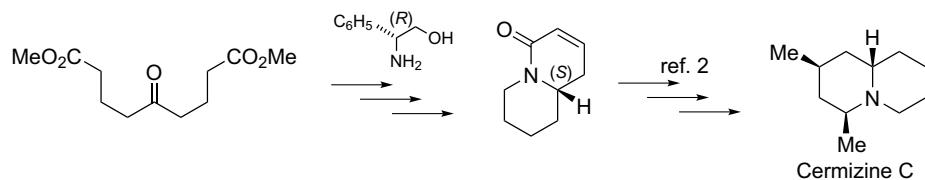
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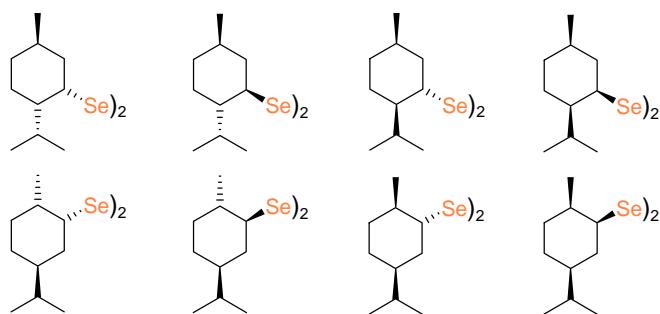
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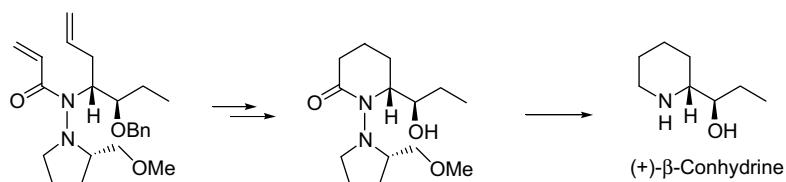
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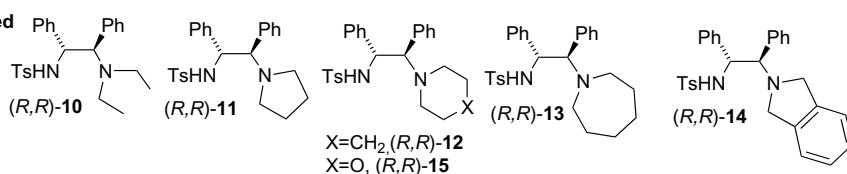


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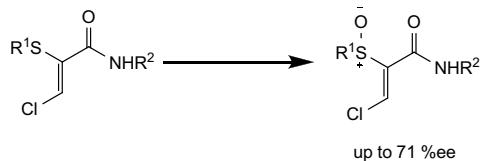
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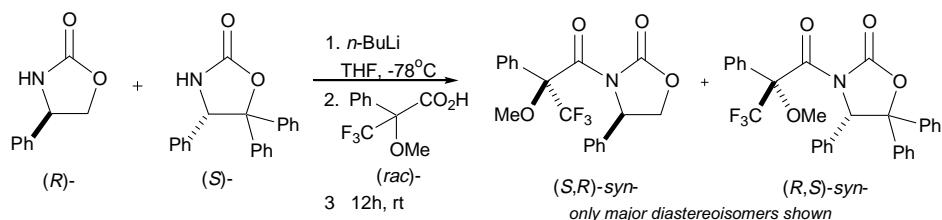
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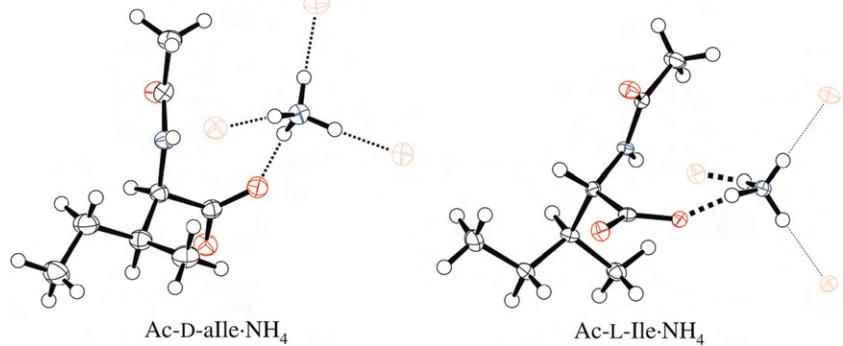
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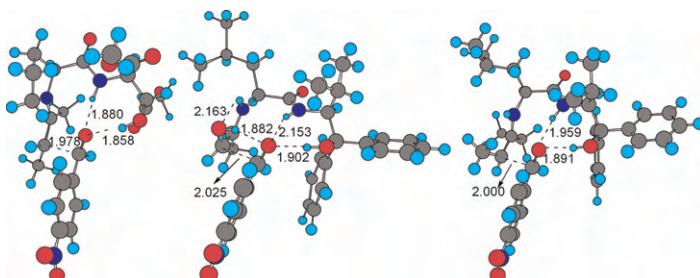
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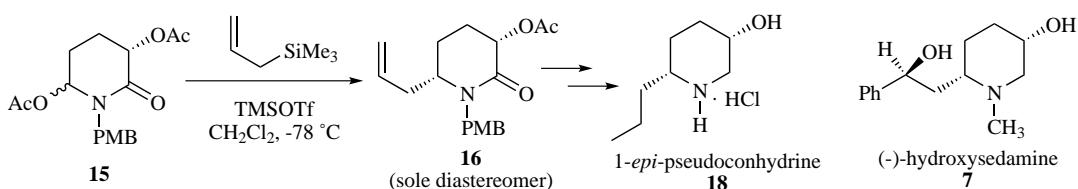
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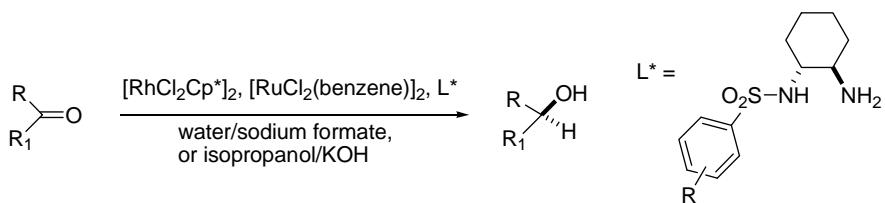
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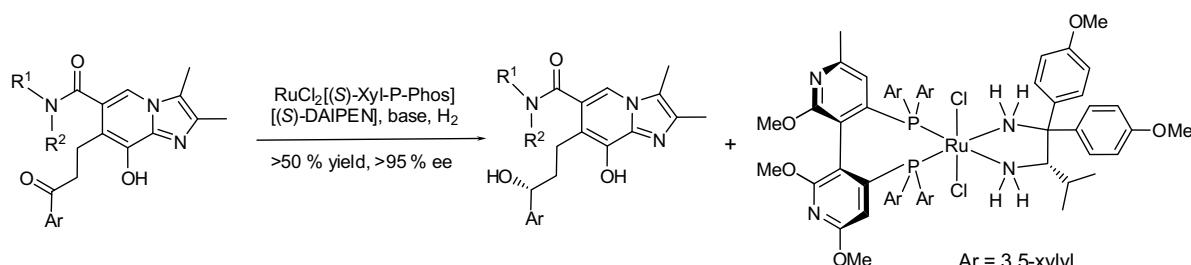
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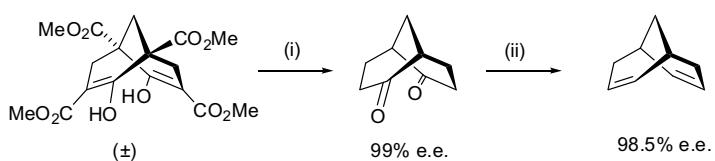
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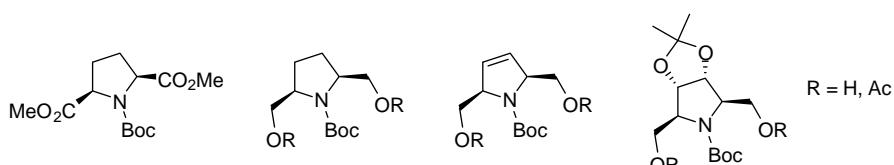


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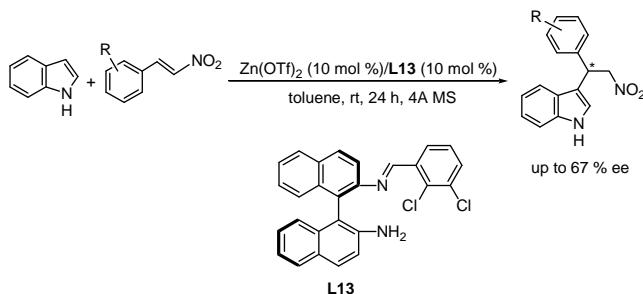


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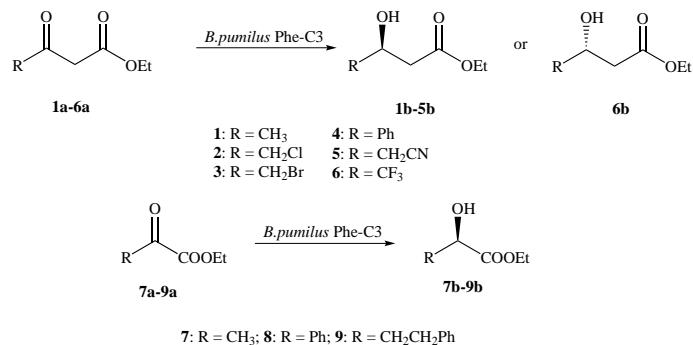
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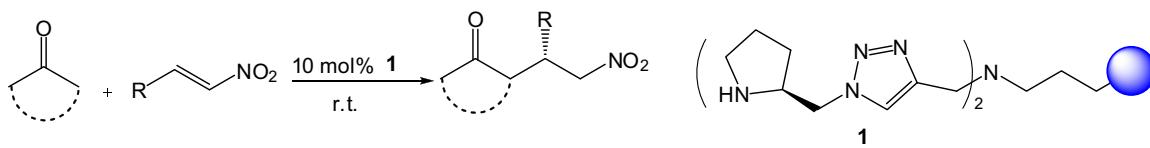
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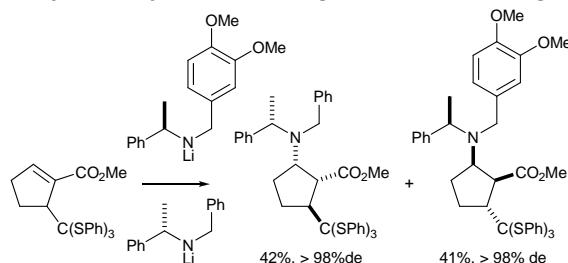
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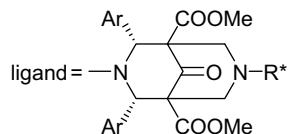
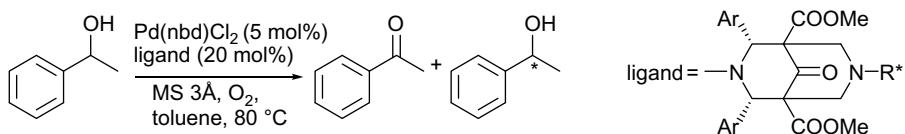


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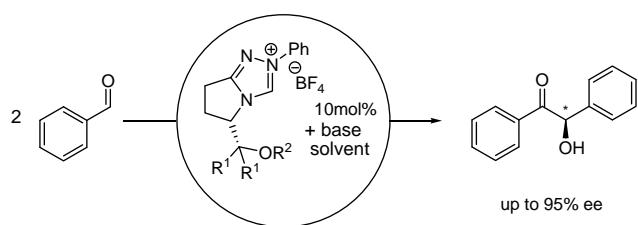
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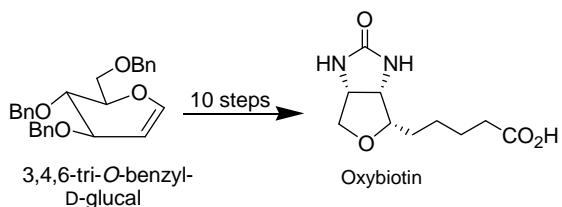
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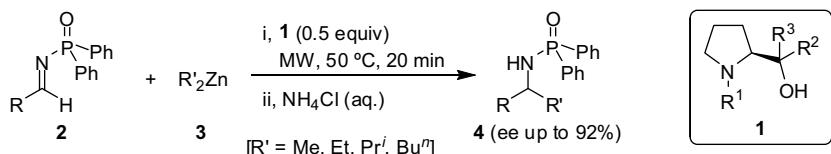
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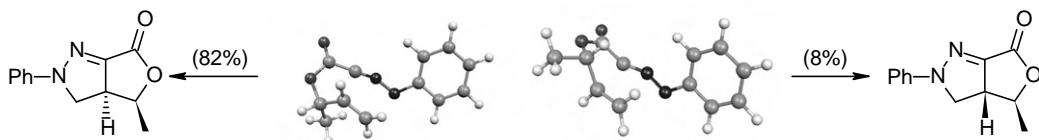
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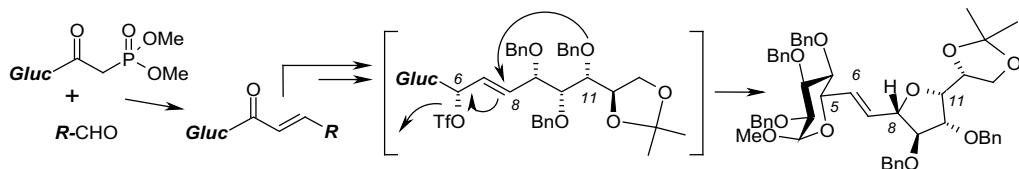
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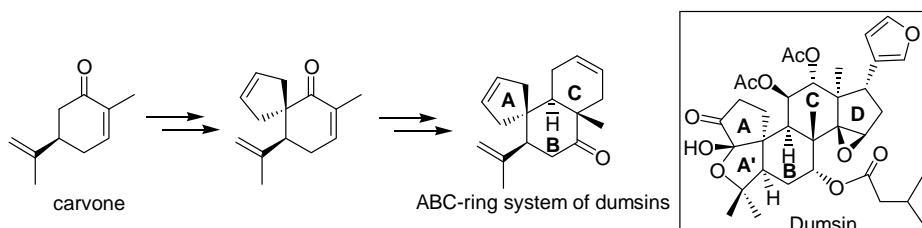
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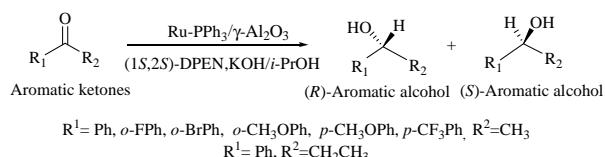
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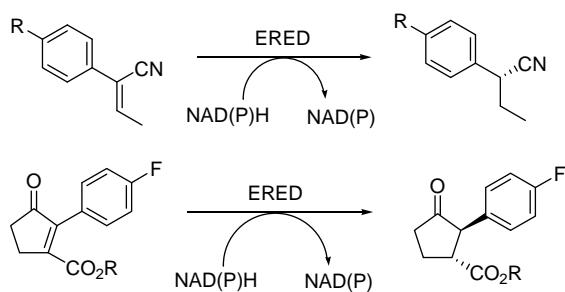
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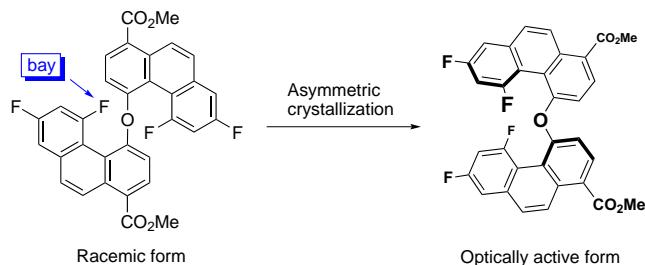
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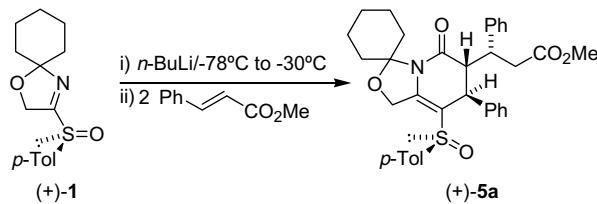
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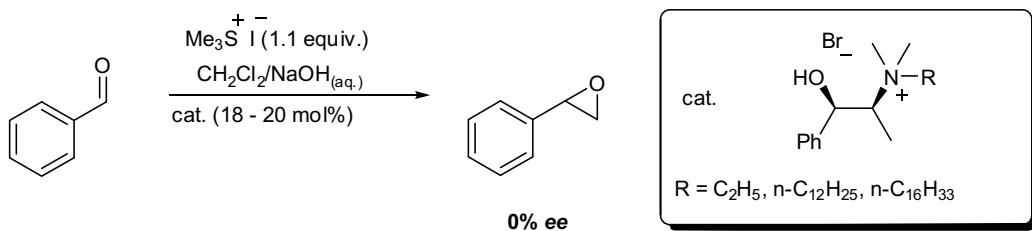
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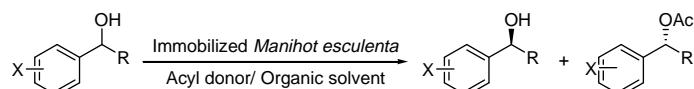


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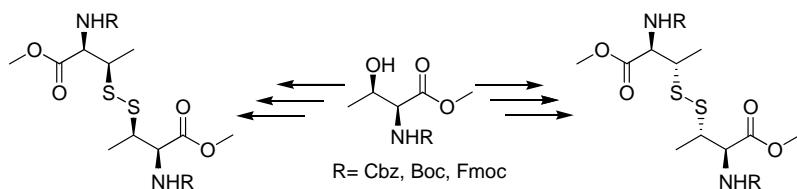
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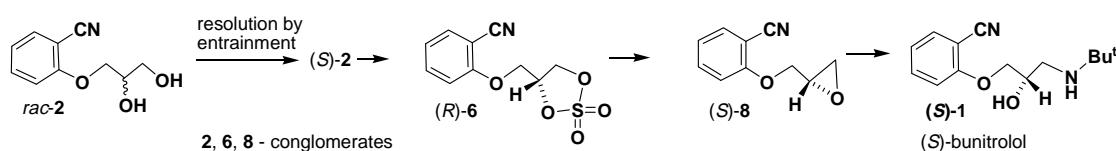
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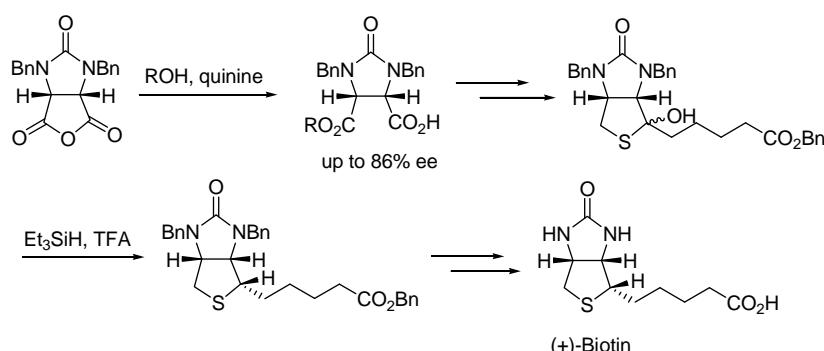
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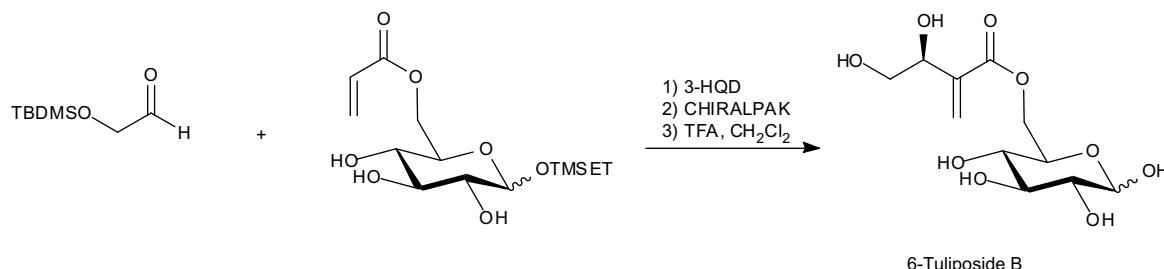
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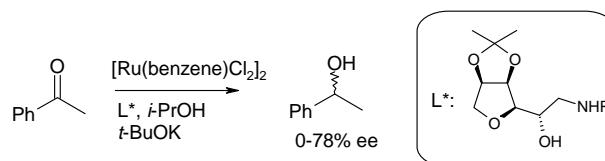
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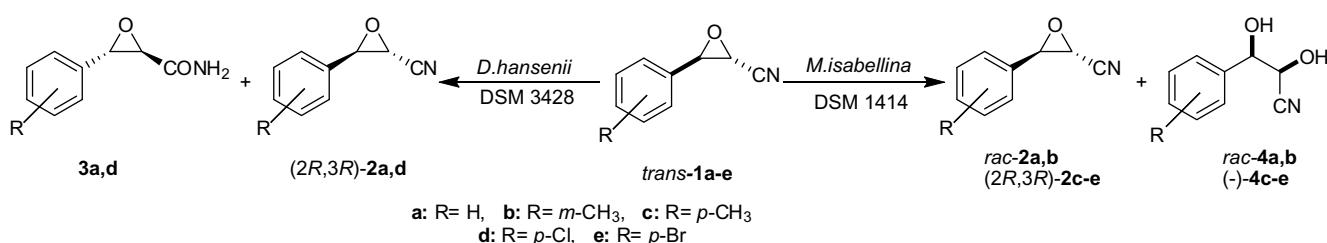
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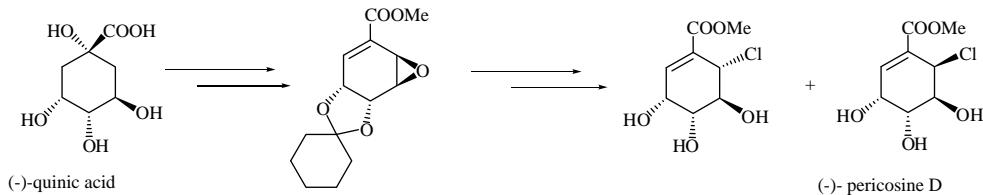
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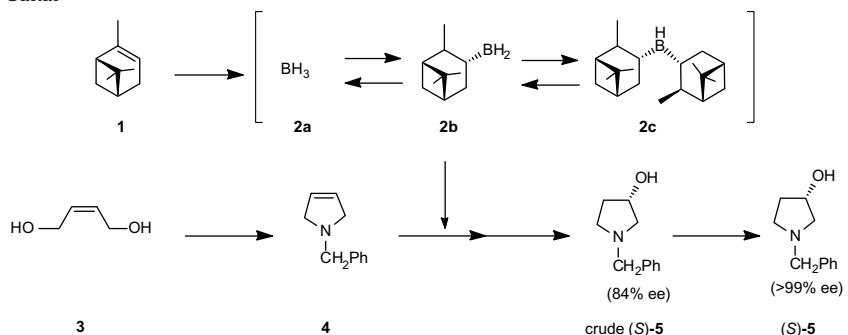




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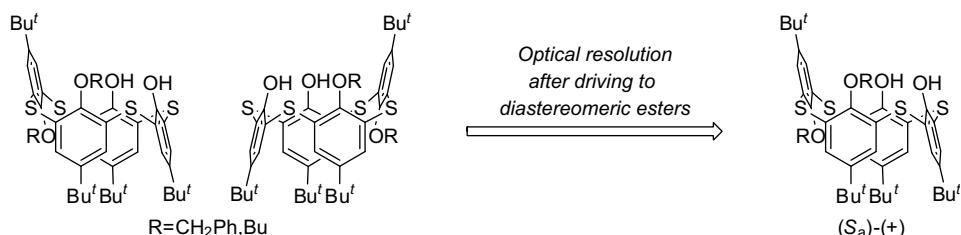
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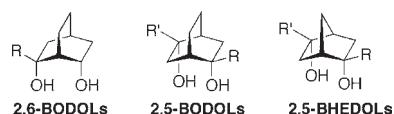
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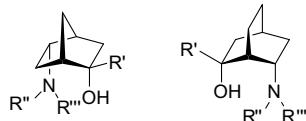
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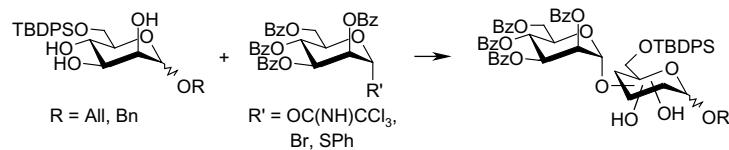
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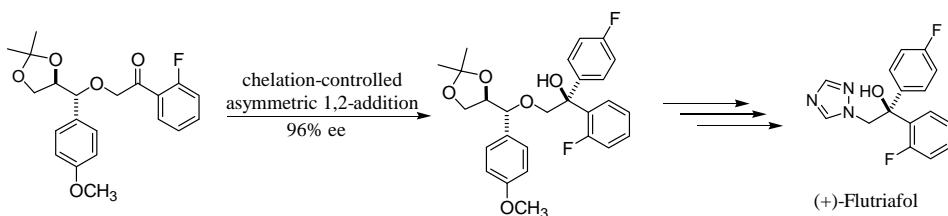
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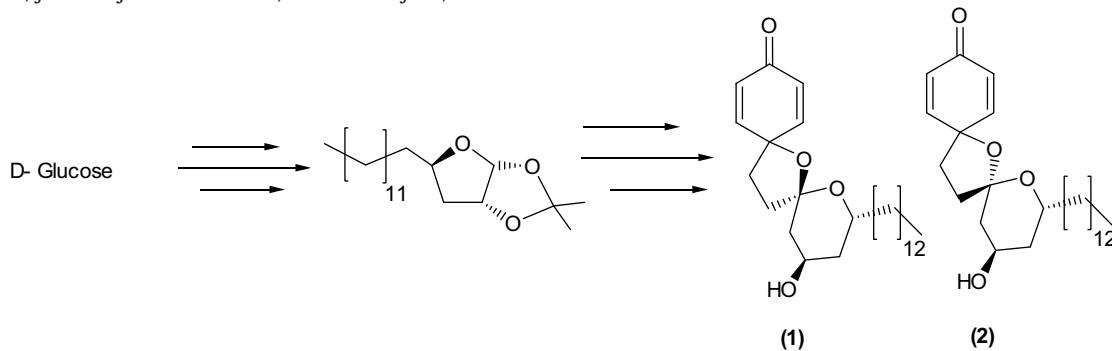
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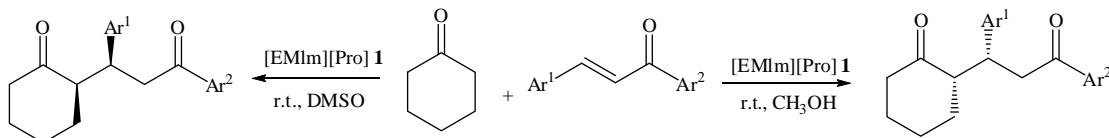
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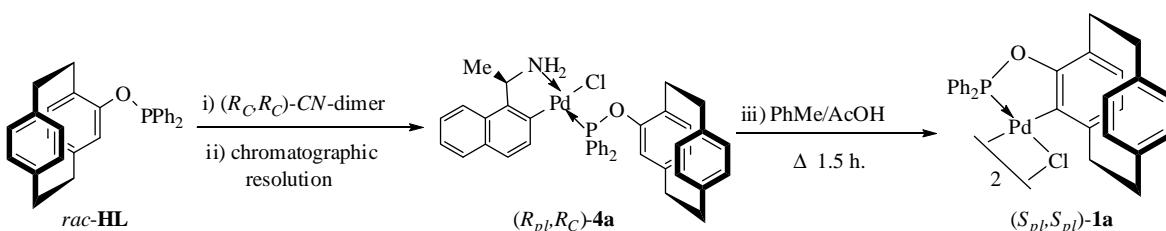
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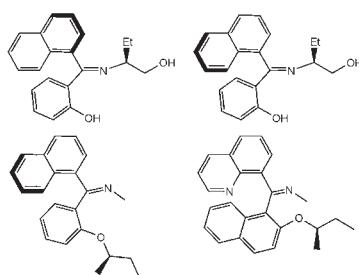
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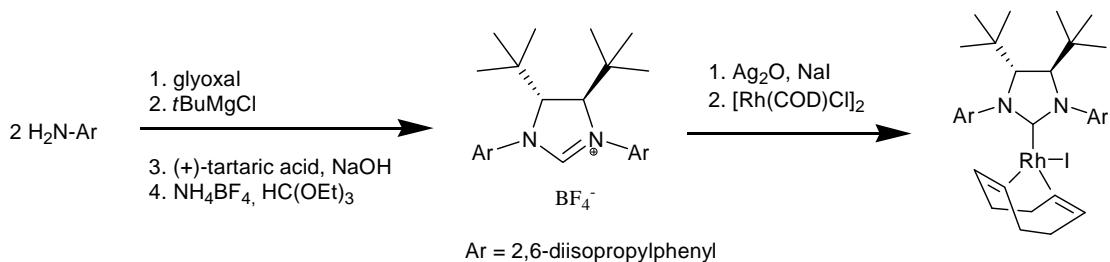
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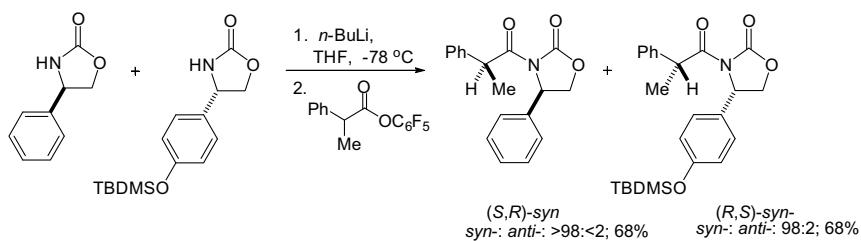
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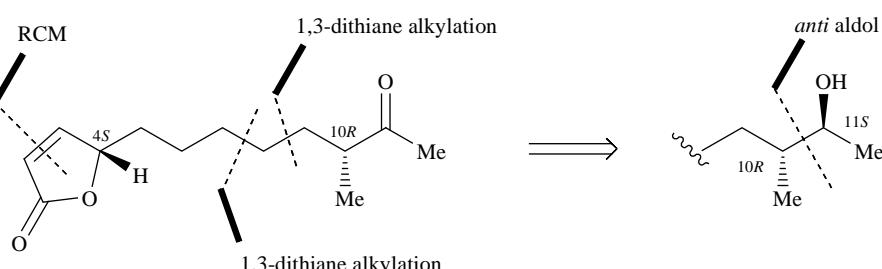
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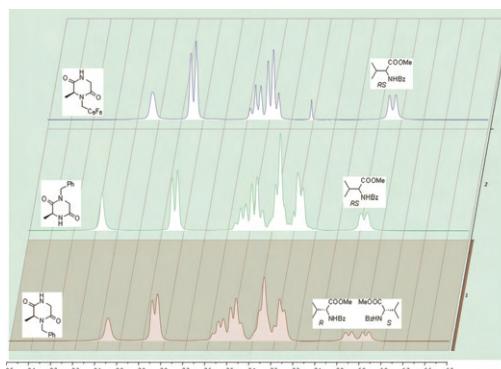
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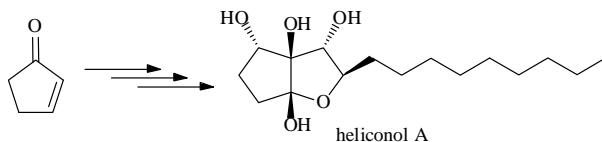
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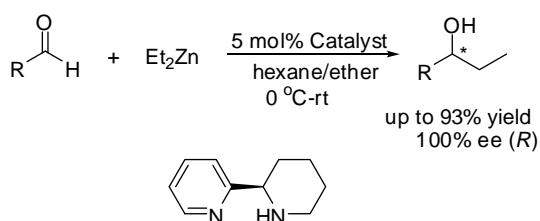
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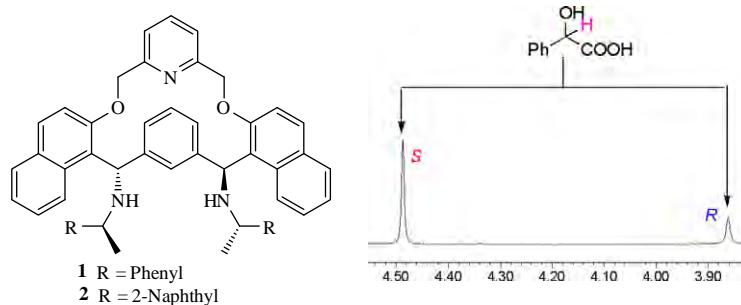
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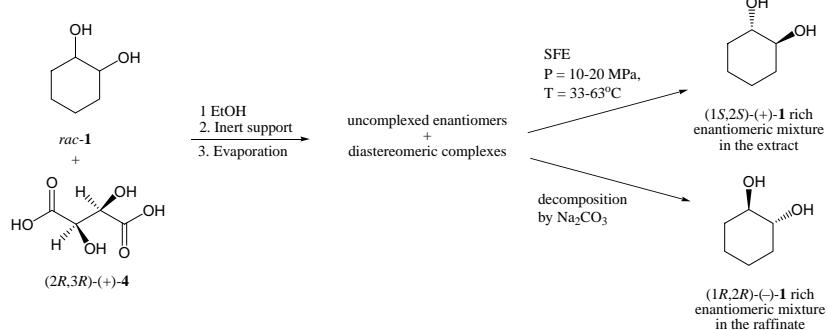
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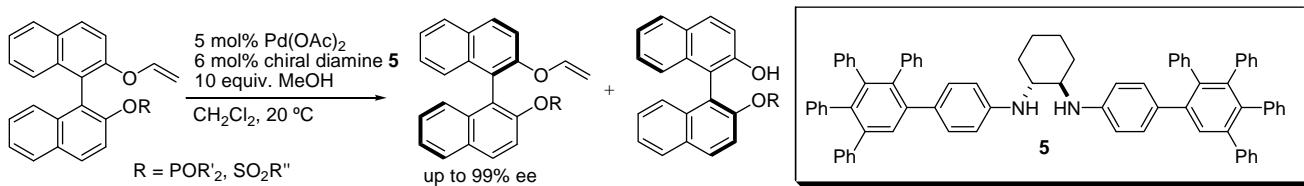
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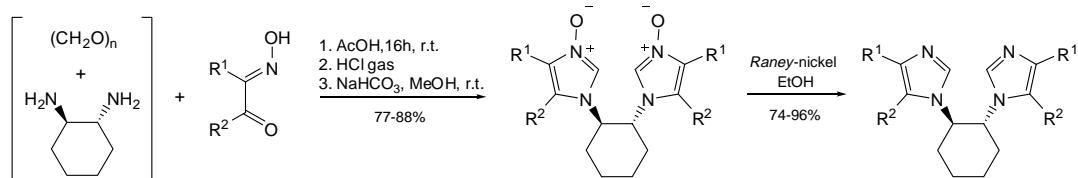
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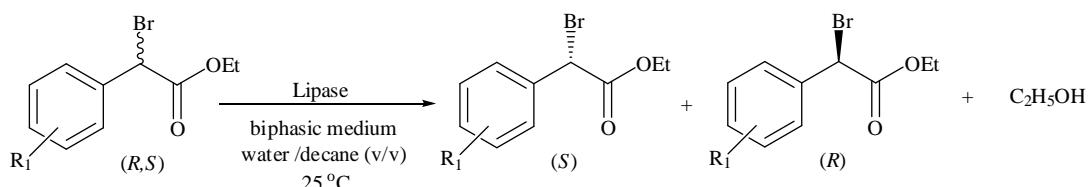
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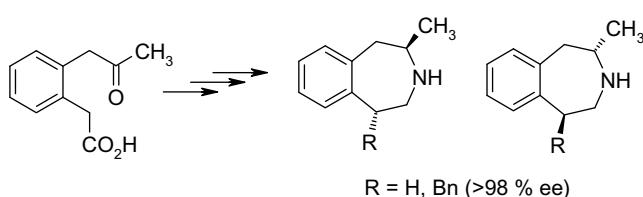
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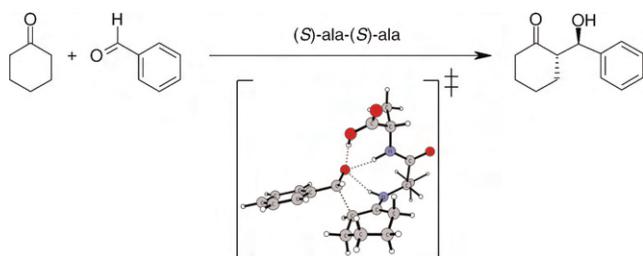
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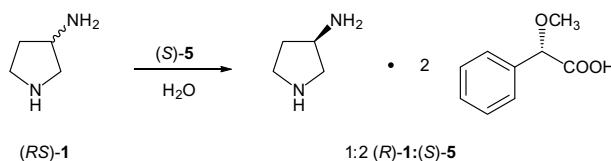
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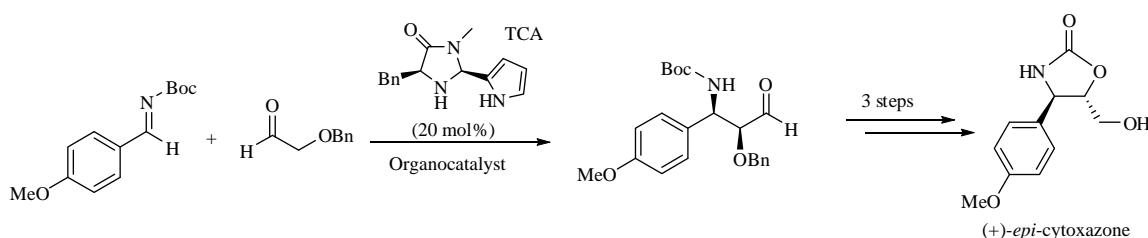
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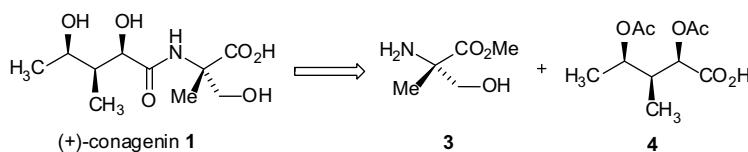
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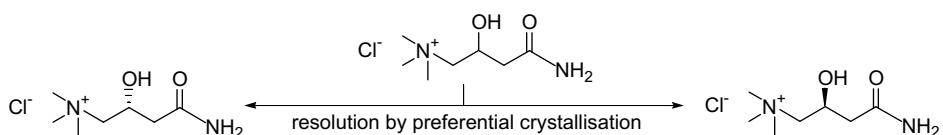
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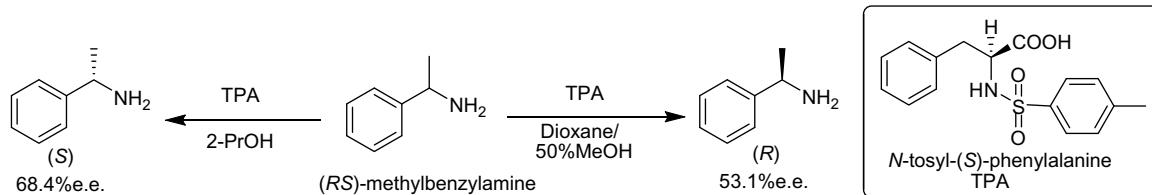


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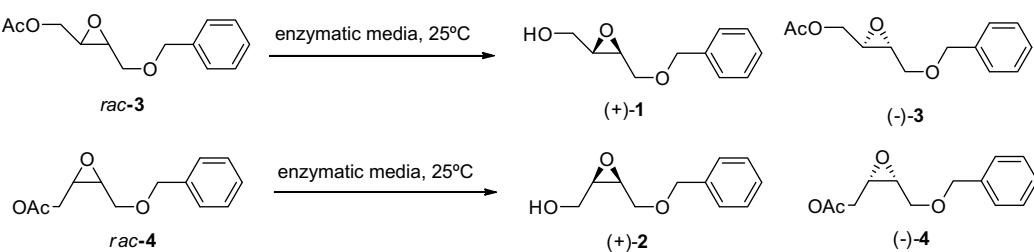
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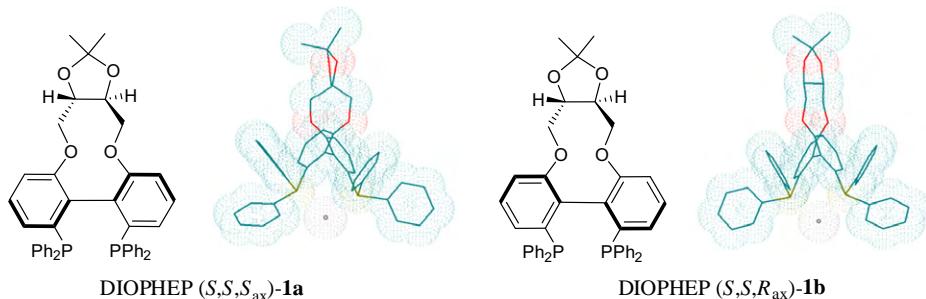
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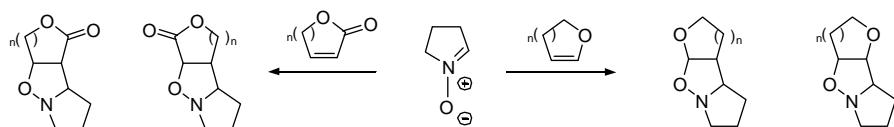


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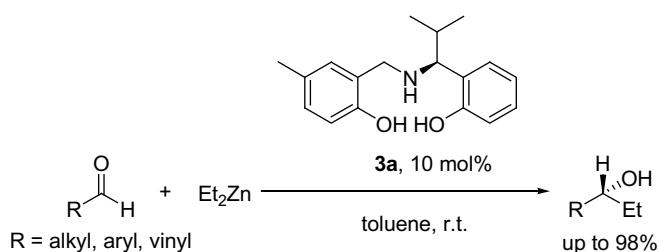


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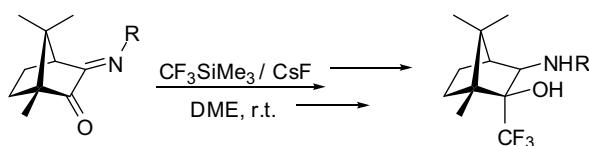
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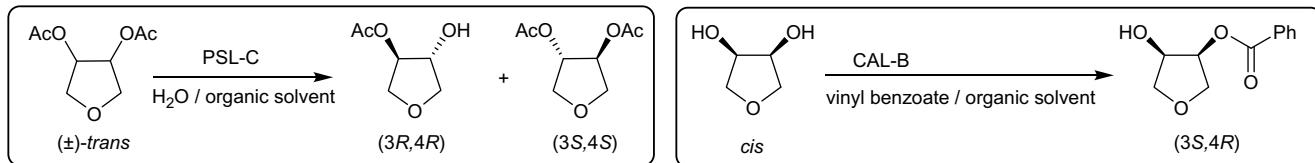
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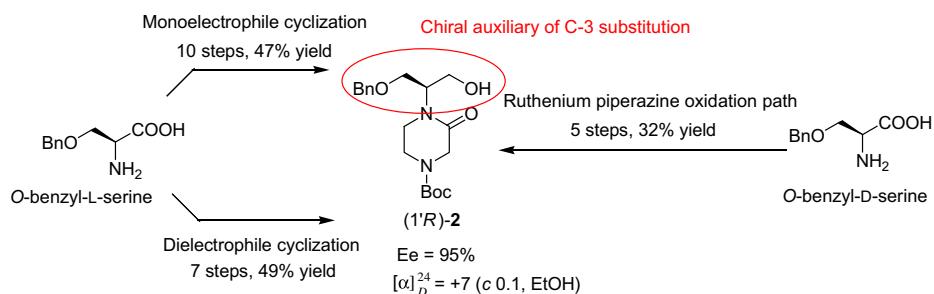
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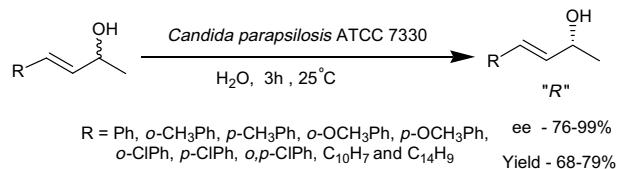
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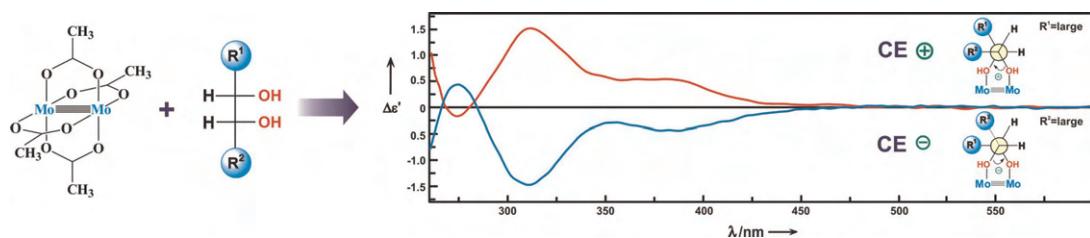
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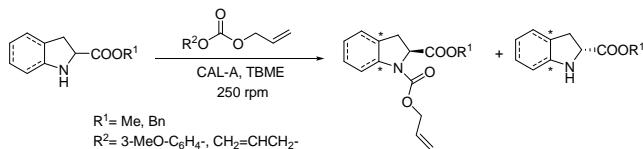
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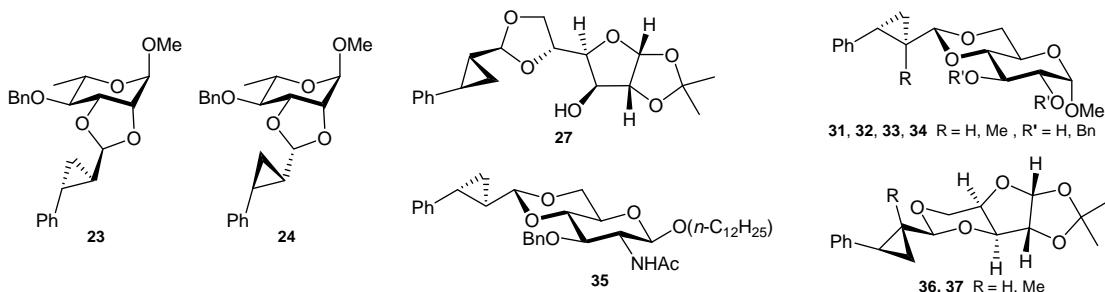
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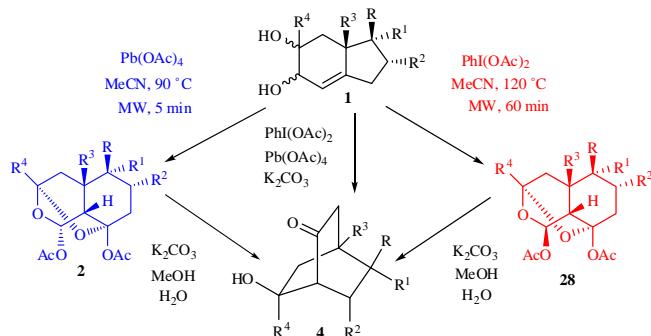
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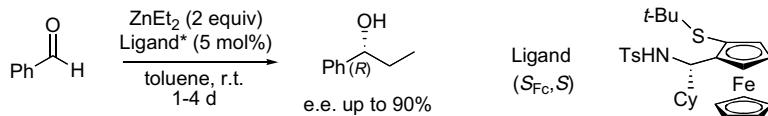


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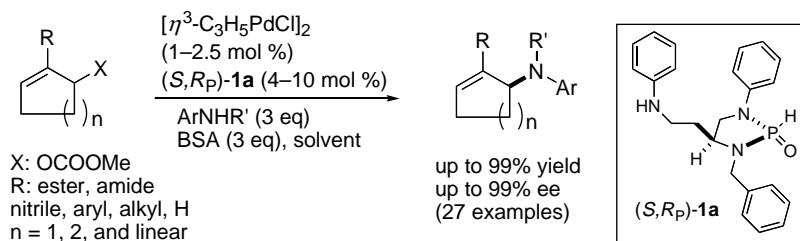
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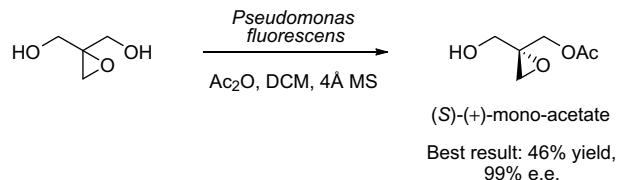
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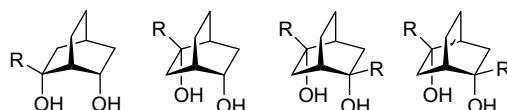


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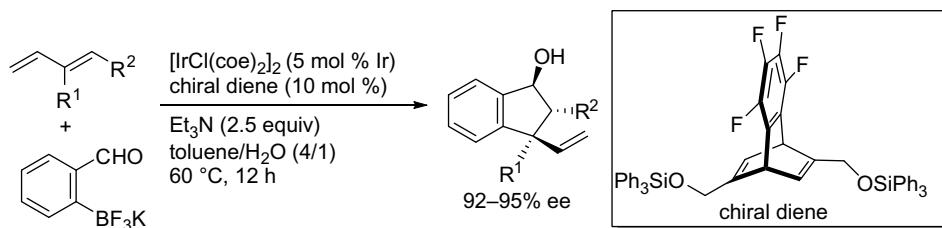


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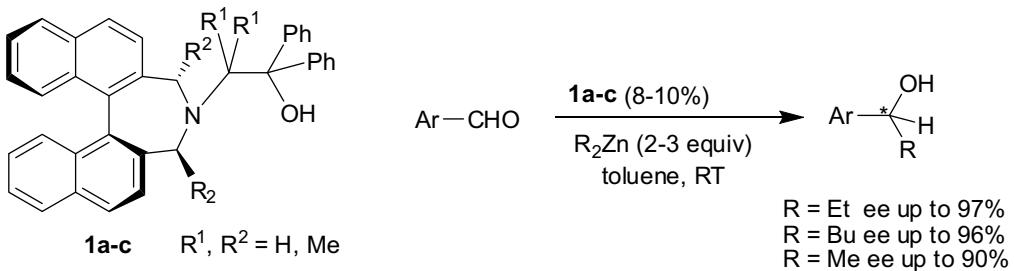
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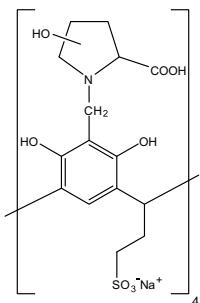
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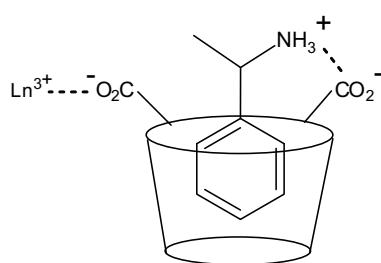
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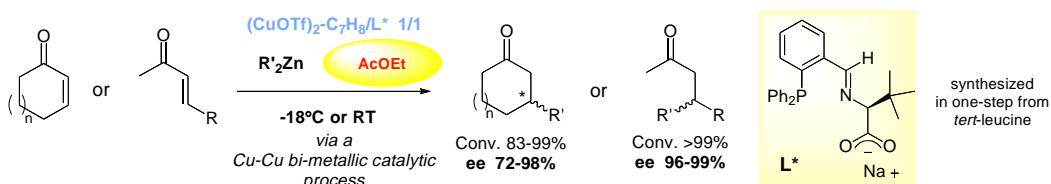
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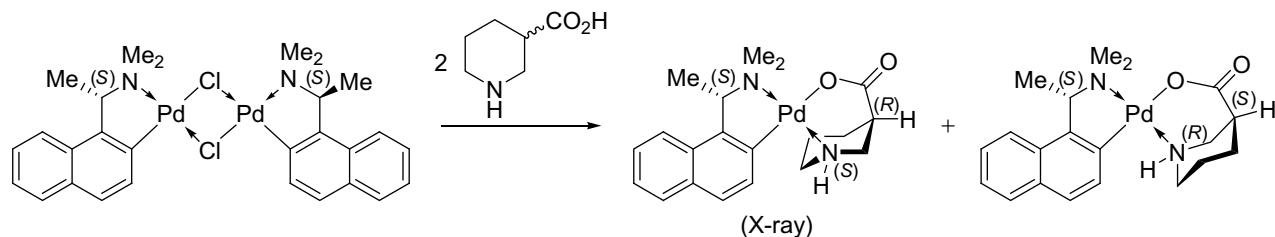
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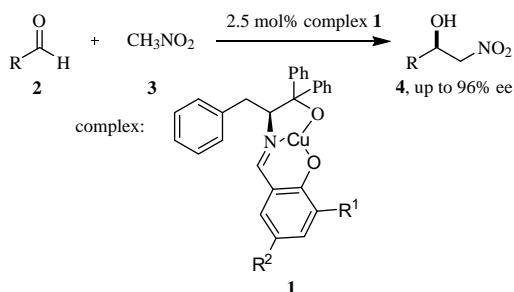
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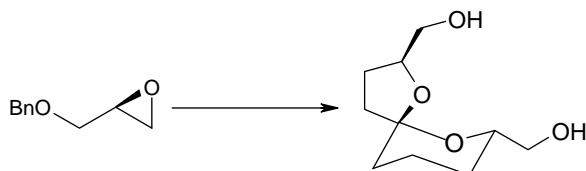
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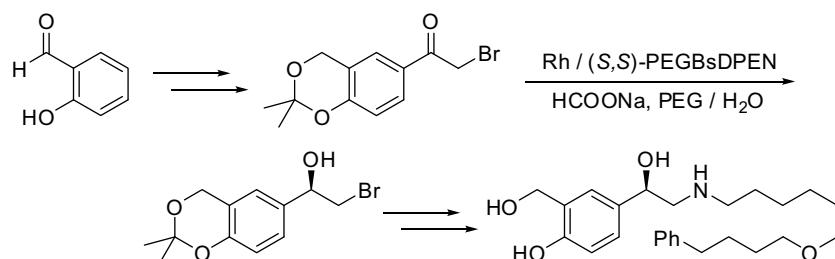
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A convenient synthesis of (*R*)-salmeterol via Rh-catalyzed asymmetric transfer hydrogenation

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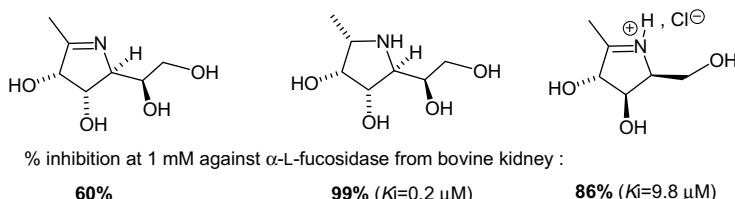


(*R*)-Salmeterol was synthesized in eight steps with salicaldehyde as the starting material. The key chiral intermediate was prepared via Rh-catalyzed asymmetric transfer hydrogenation under mild conditions.

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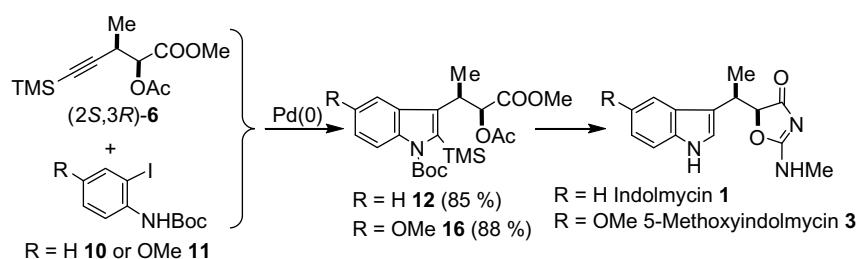
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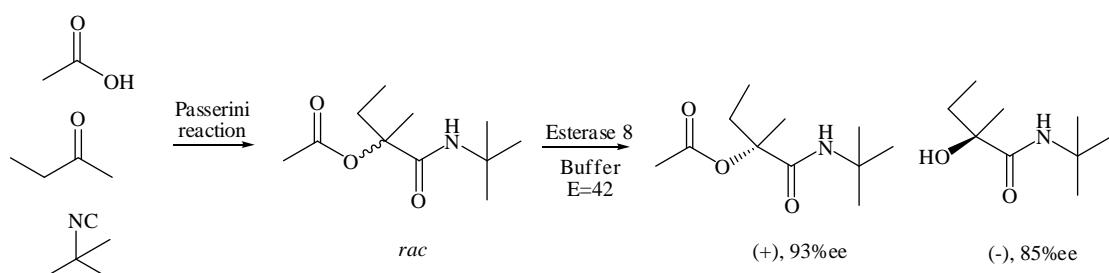
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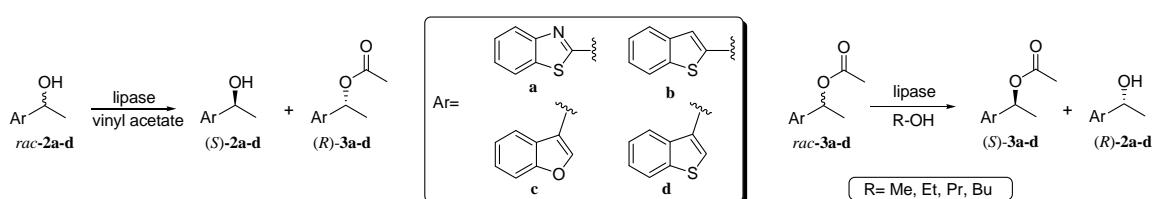
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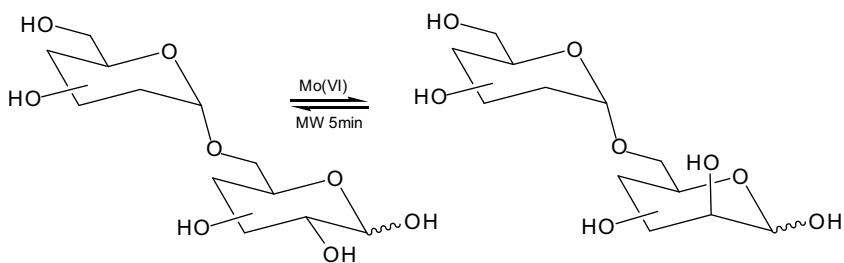
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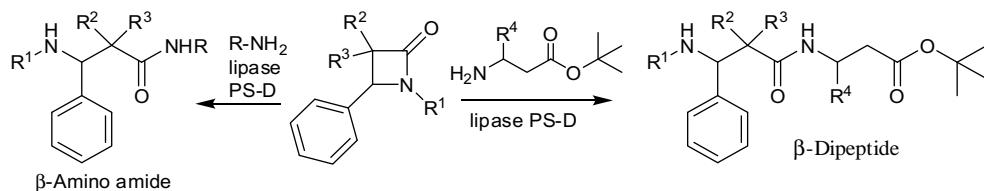
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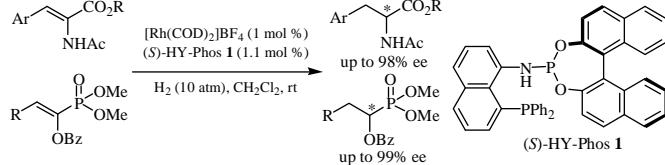


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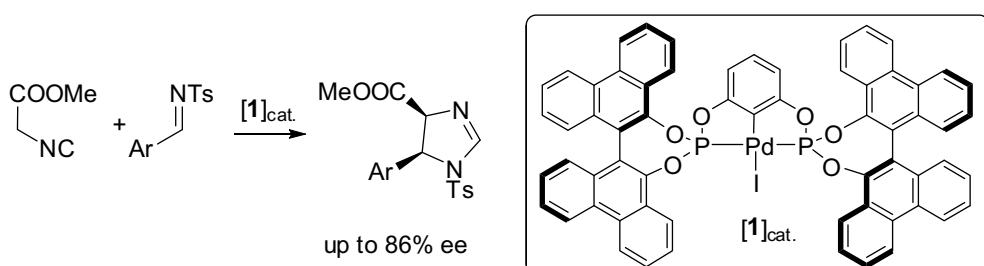


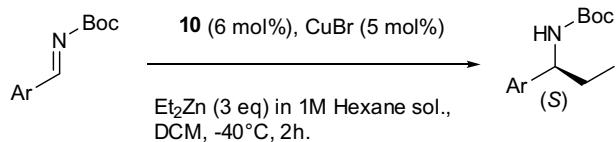
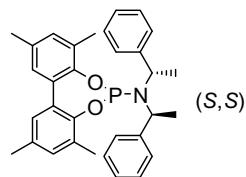
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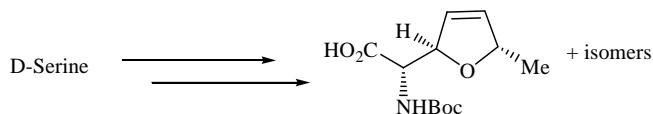
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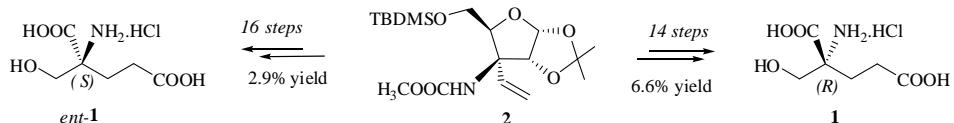
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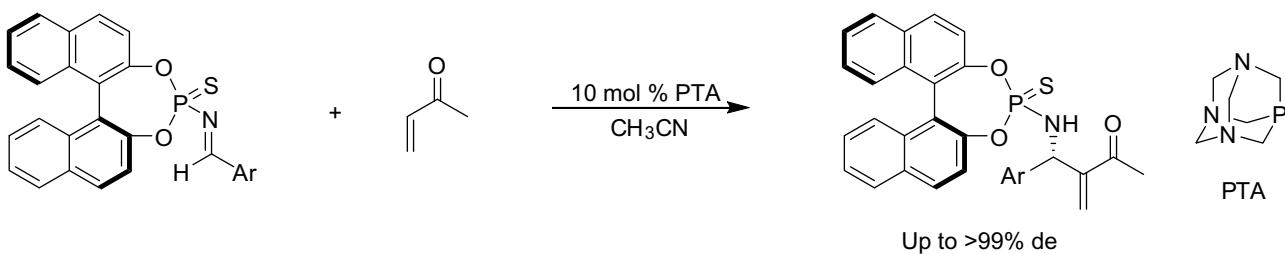
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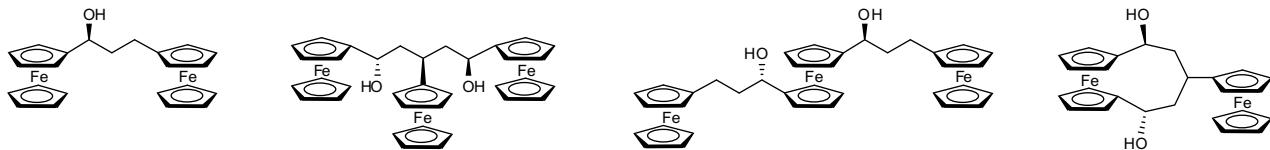
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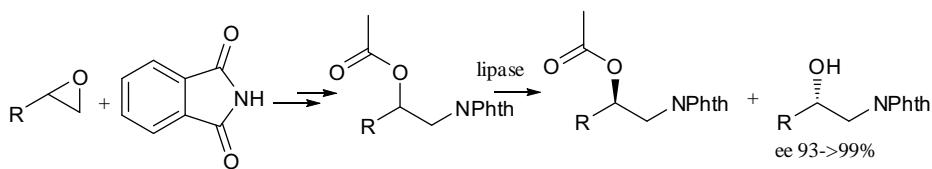
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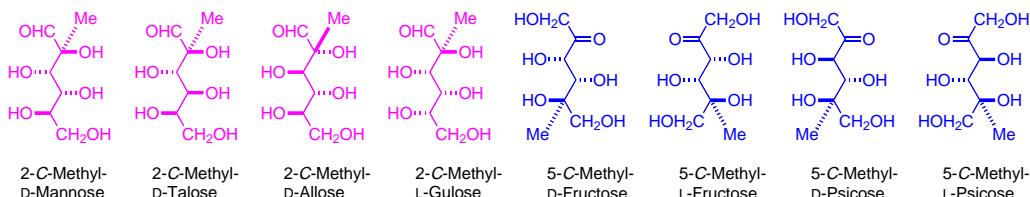
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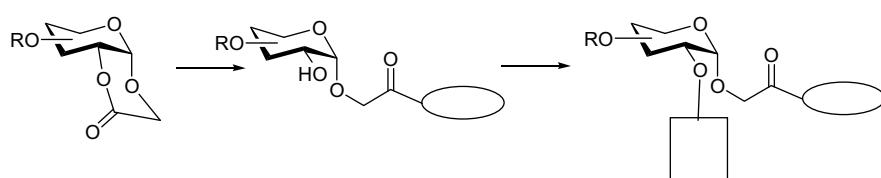
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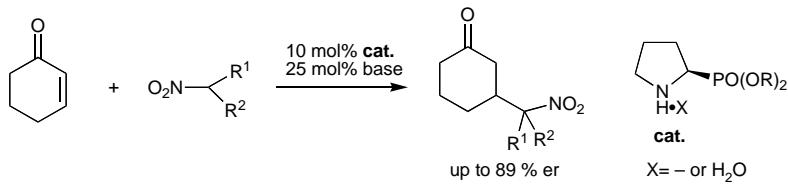
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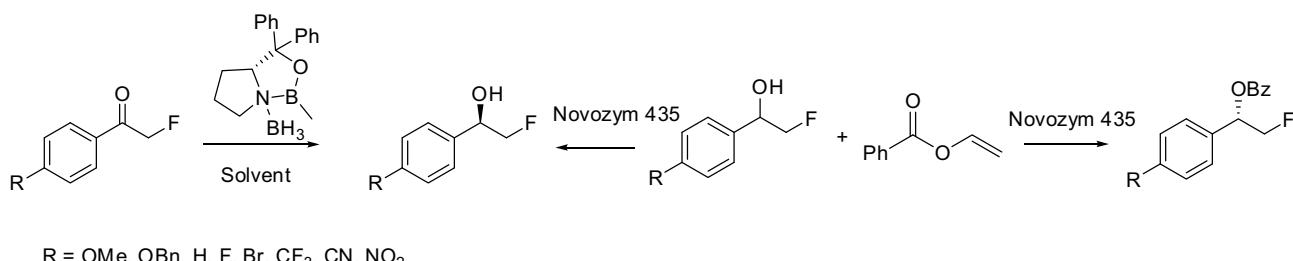
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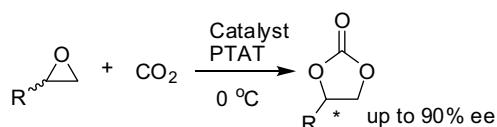
Erik Fuglseth, Eirik Sundby, Per Bruheim, Bård Helge Hoff *

 $R = \text{OMe, OBr, H, F, Br, CF}_3, \text{CN, NO}_2$

Chiral catalysts for the asymmetric cycloaddition of carbon dioxide with epoxides

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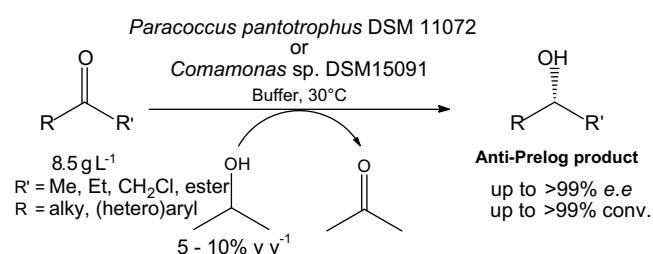


New catalysts of BINADCo(III)X were synthesized and applied to the asymmetric cycloaddition of CO_2 with epoxides to generate chiral cyclic carbonates with moderate to excellent yield under very mild conditions.

Asymmetric anti-Pregel reduction of ketones catalysed by *Paracoccus pantotrophus* and *Comamonas* sp. cells via hydrogen transfer

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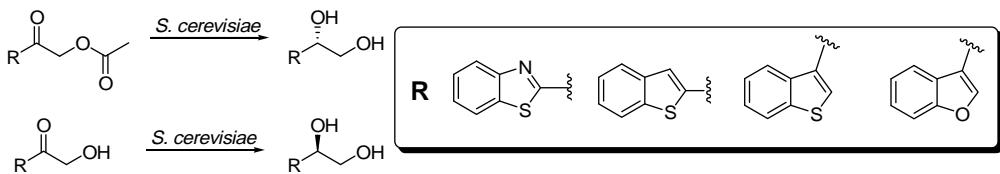
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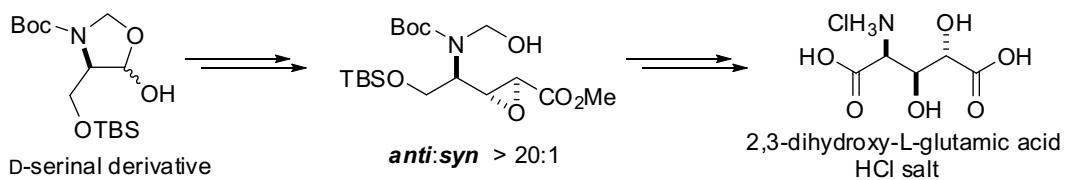
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**Efficient and stereoselective synthesis of (2*S*,3*S*,4*S*)-3,4-dihydroxyglutamic acid via intramolecular epoxidation**

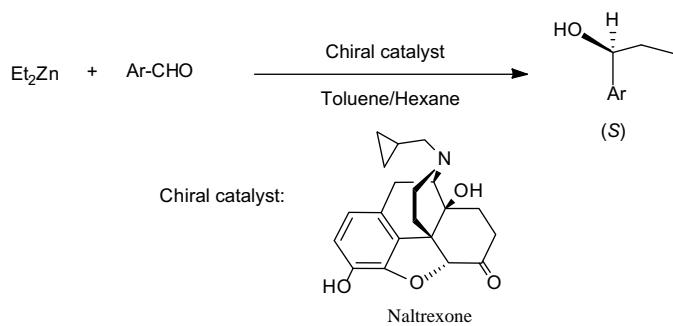
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**Enantioselective addition of diethylzinc to aromatic aldehydes catalyzed by 14-hydroxylsubstituted morphinan**

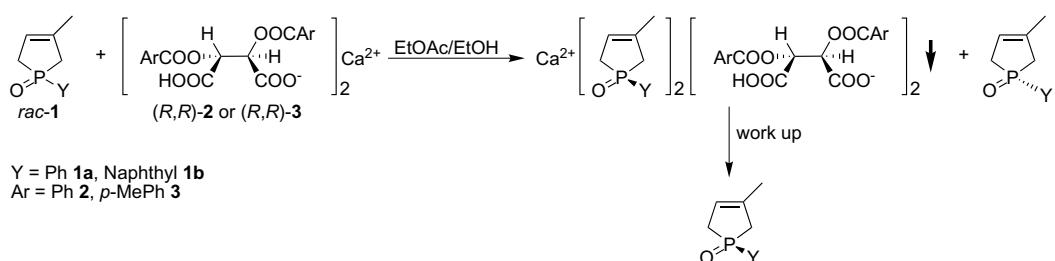
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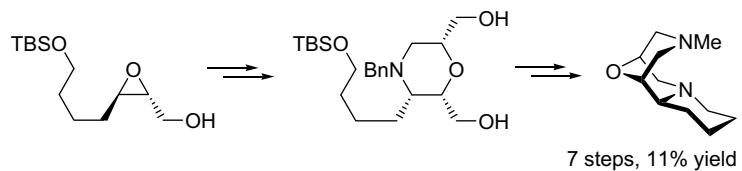
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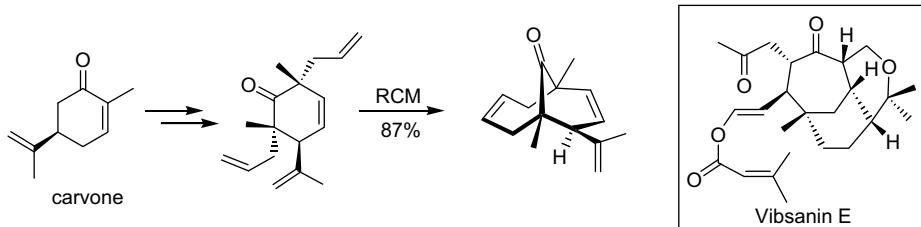
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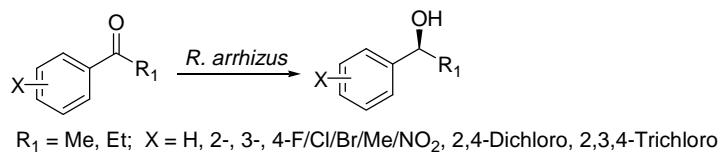
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Tetrahedron: Asymmetry

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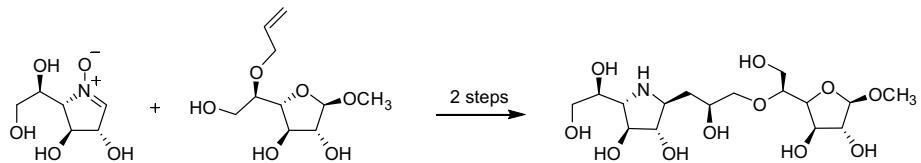


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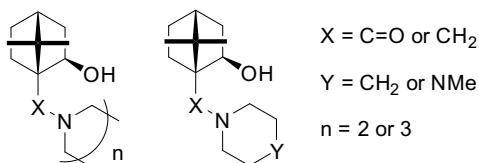
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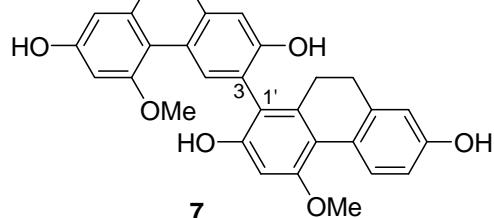
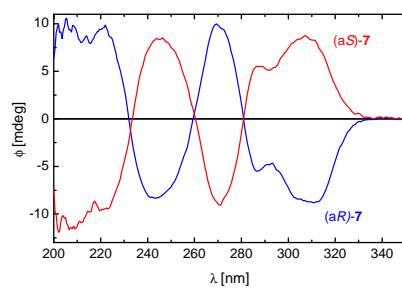
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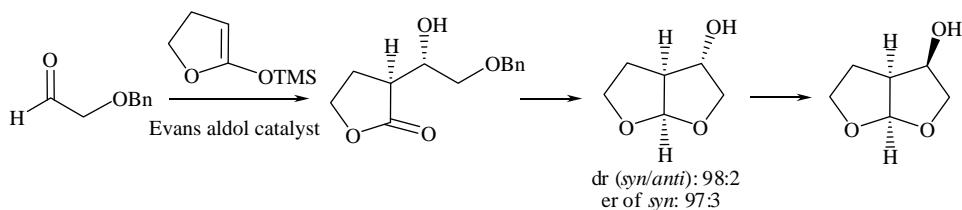
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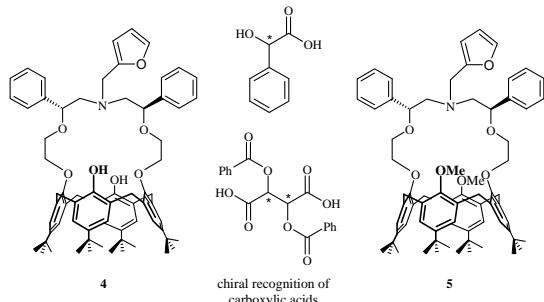
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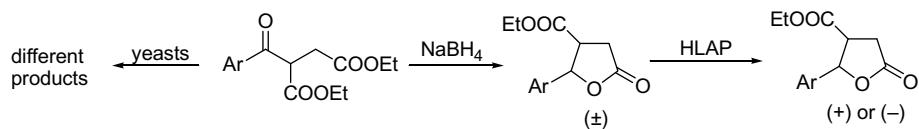
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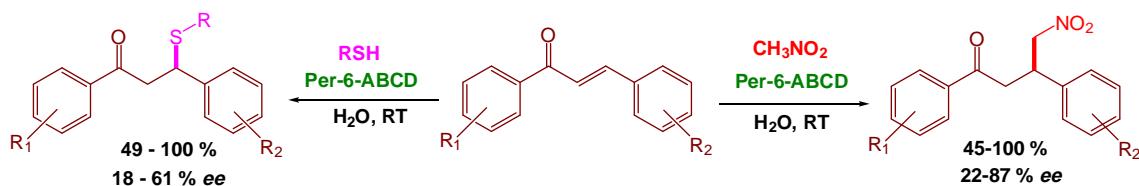
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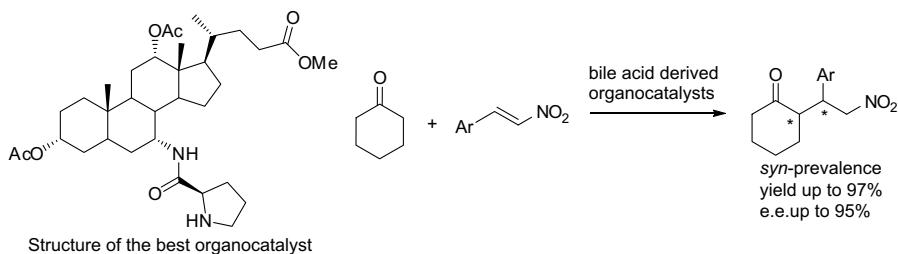
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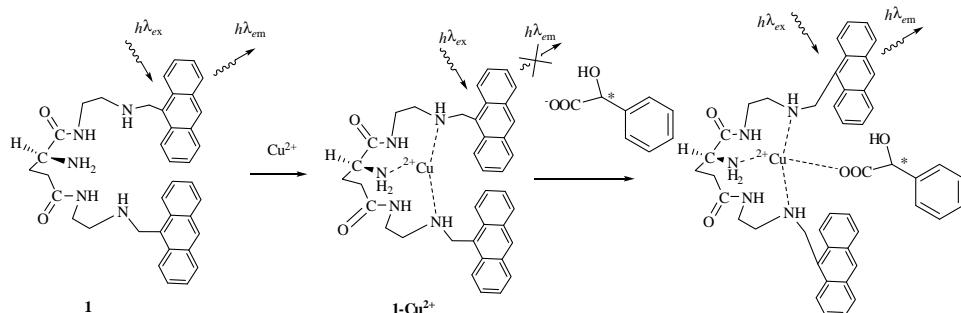
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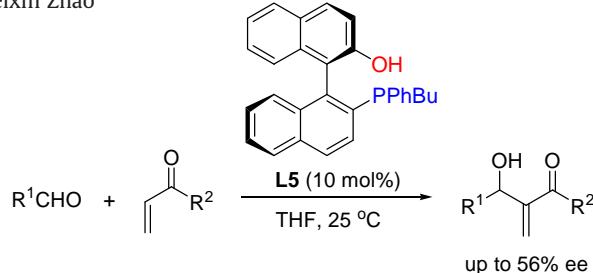
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Bifunctional chiral phosphine-containing Lewis base catalyzed asymmetric Morita–Baylis–Hillman reaction of aldehydes with activated alkenes

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

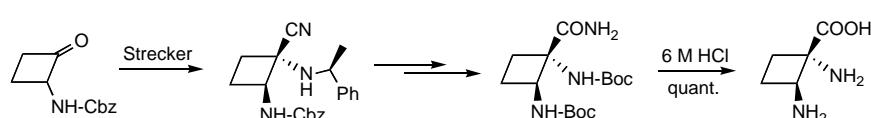


A series of novel bifunctional chiral phosphine-containing Lewis bases were synthesized and successfully applied to the asymmetric Morita–Baylis–Hillman reaction of aldehydes with methyl vinyl ketone (MVK) and ethyl vinyl ketone (EVK) to give the corresponding adducts in moderate yields and enantioselectivities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

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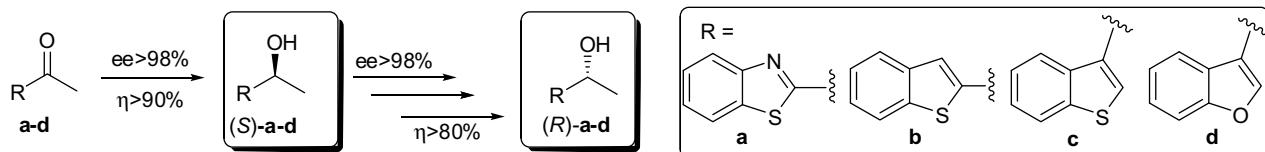
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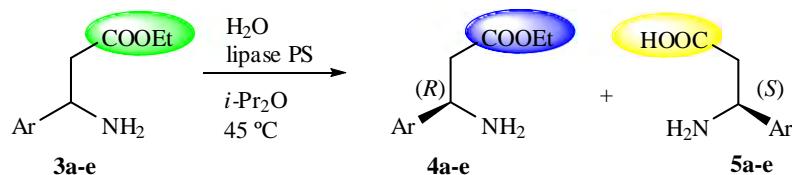
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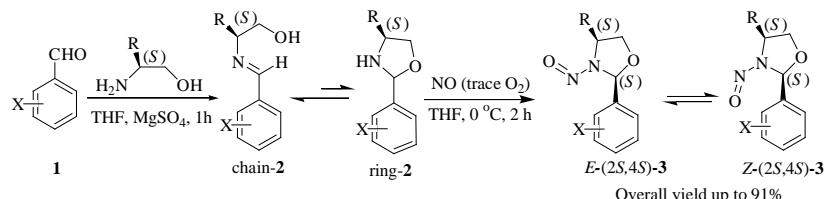
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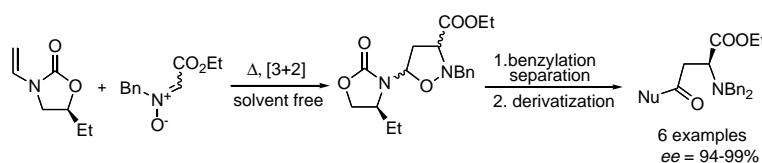
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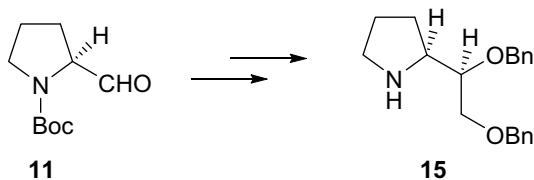
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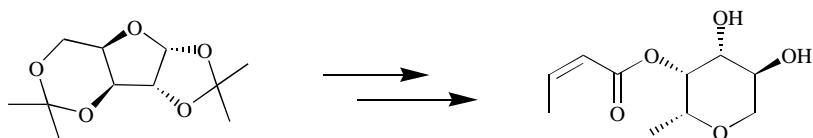
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Stereoselective total synthesis of ophiocerin D from D-xylose

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Gangavaram V. M. Sharma *, Krishna Damera

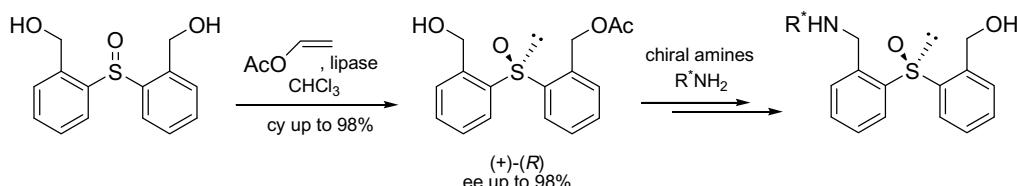


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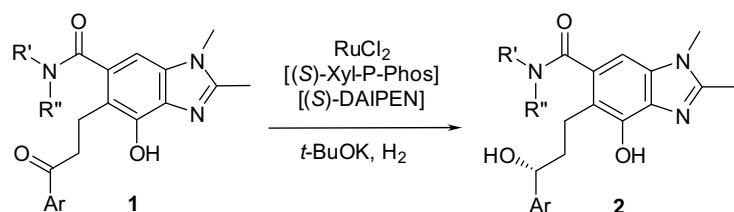
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