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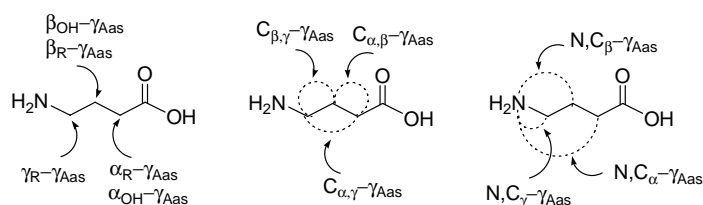
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Stereoselective synthesis of γ -amino acids

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Mario Ordóñez* and Carlos Cativiela*

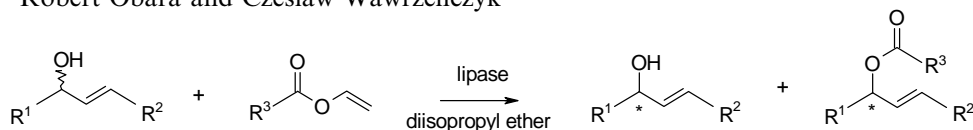


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Anna Chojnacka,* Robert Obara and Czesław Wawrzęczyk



$R^1 = n\text{-Bu}, i\text{-Bu}, -\text{CH}_2\text{C}(\text{CH}_3)_3, -\text{CH}_2\text{C}_6\text{H}_5$

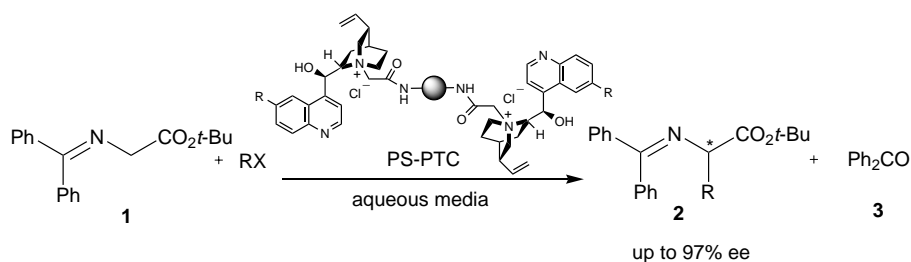
$R^2 = \text{H}, \text{Me}$

$R^3 = \text{Et}, n\text{-Pr}, -\text{C}_9\text{H}_{19}, -\text{C}_{11}\text{H}_{23}$

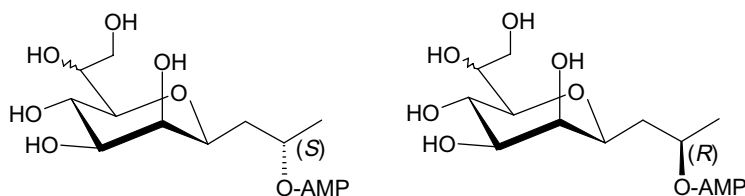
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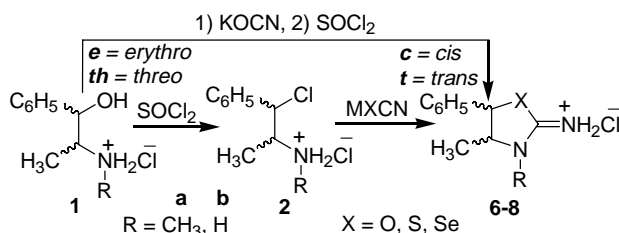
Xin Wang, Liang Yin, Ting Yang and Yongmei Wang*



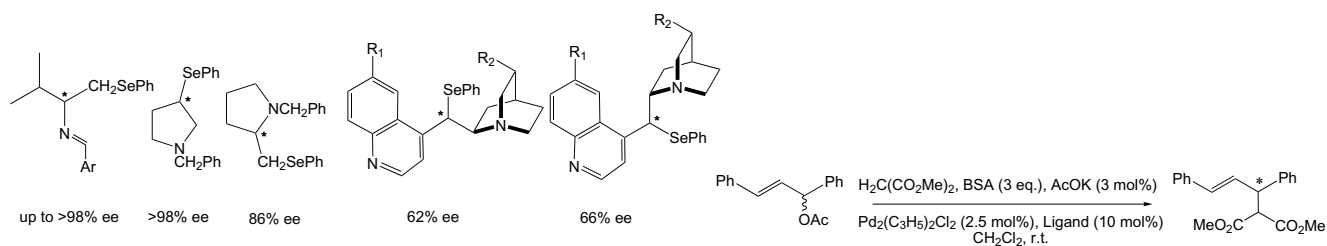
Andrea Graziani, Hassan Amer, Alla Zamyatina, Andreas Hofinger and Paul Kosma*



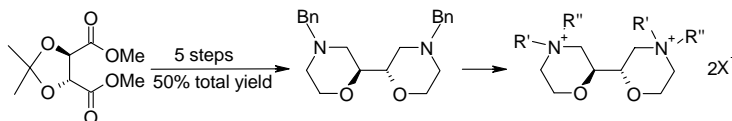
Alejandro Cruz,* Itzia Irene Padilla-Martínez, Efrén V. García-Báez and Rosalinda Contreras



Mariola Zielińska-Błajet, Renata Siedlecka and Jacek Skarzewski*



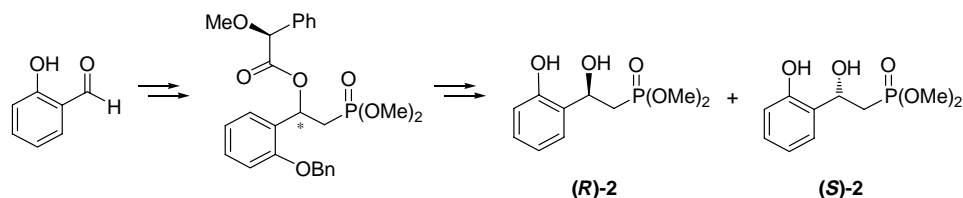
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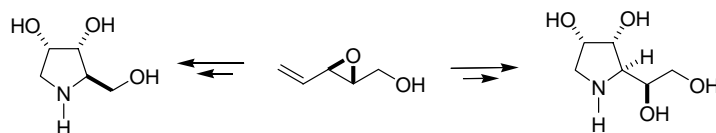
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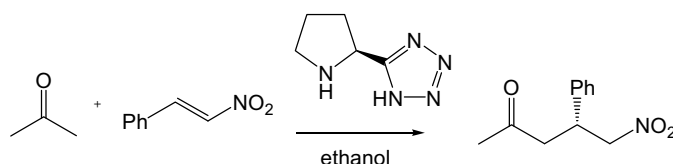
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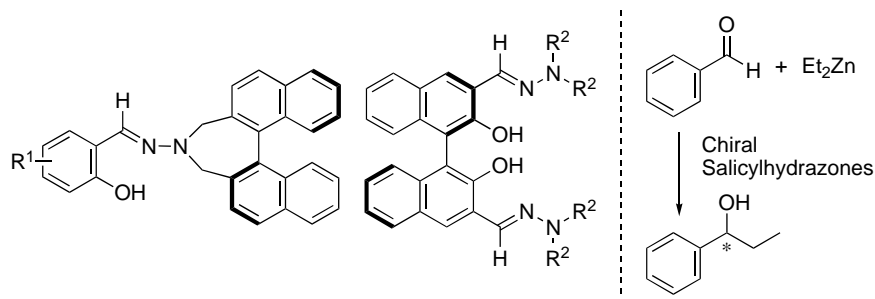
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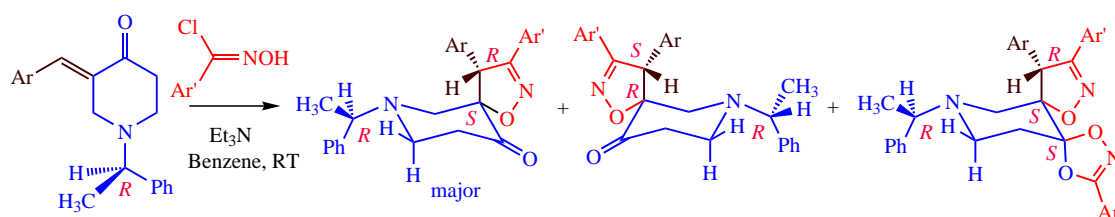
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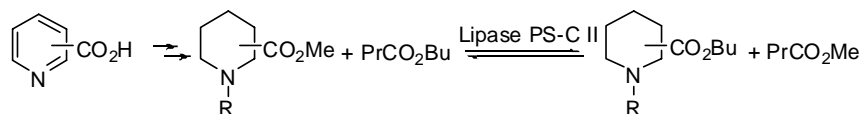
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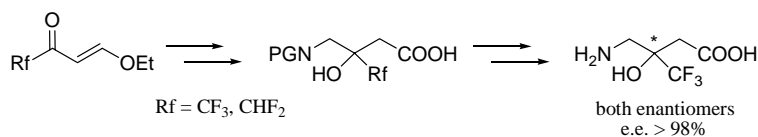
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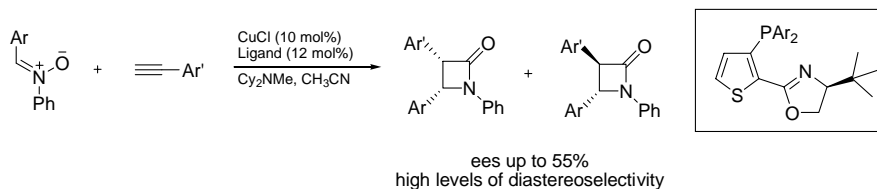


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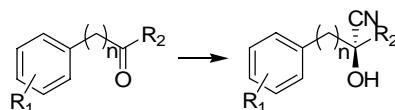
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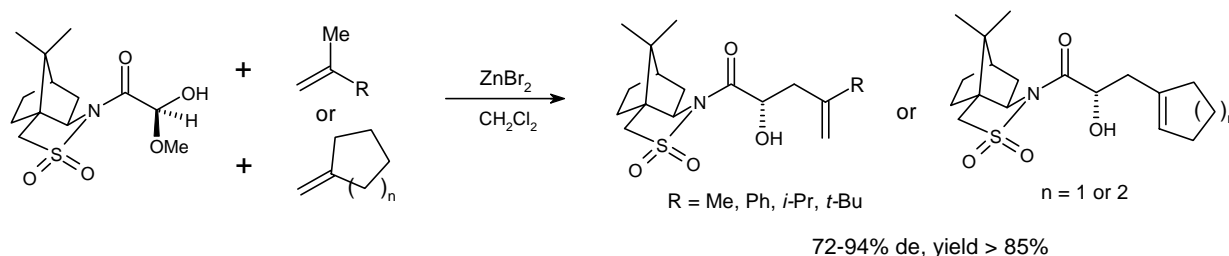
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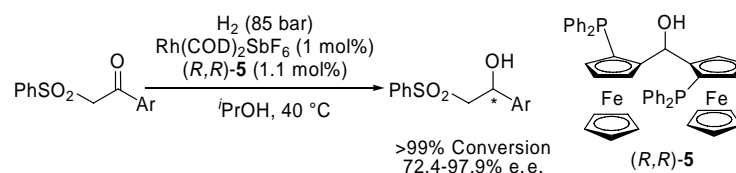
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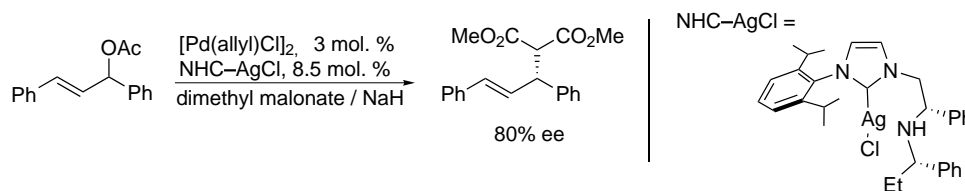
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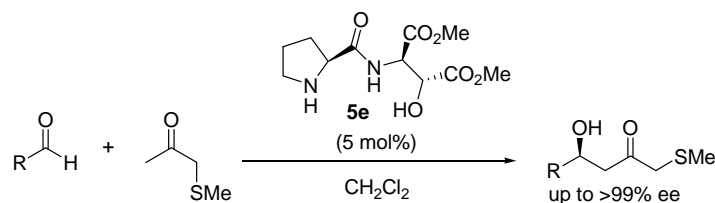
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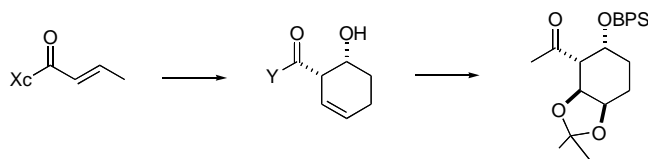


***L*-Proline amides catalyze direct asymmetric aldol reactions of aldehydes with methylthioacetone and fluoroacetone**

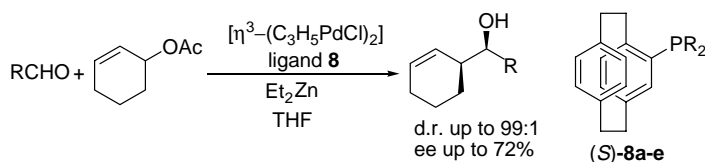
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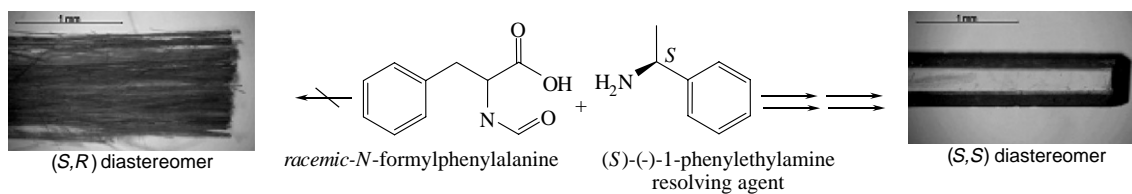




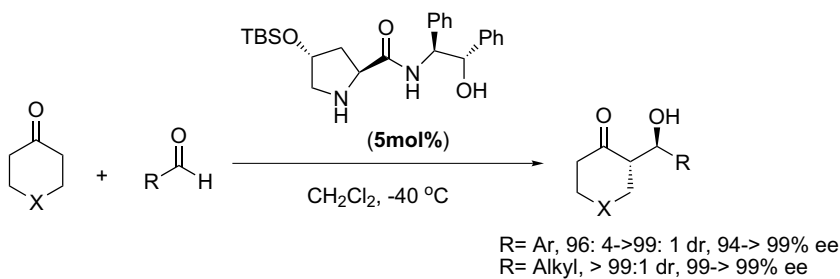
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Laura Bereczki,* Emese Pálóvics, Petra Bombicz, György Pokol, Elemér Fogassy and Katalin Marthi



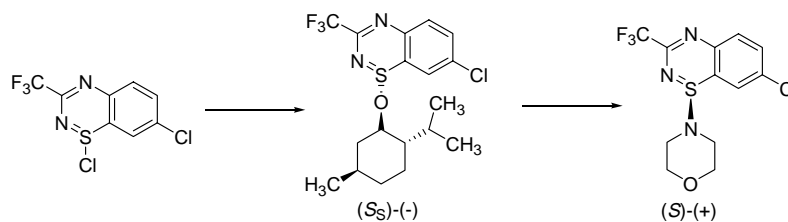
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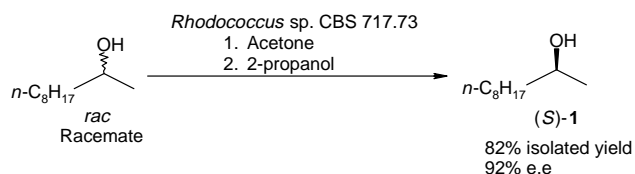
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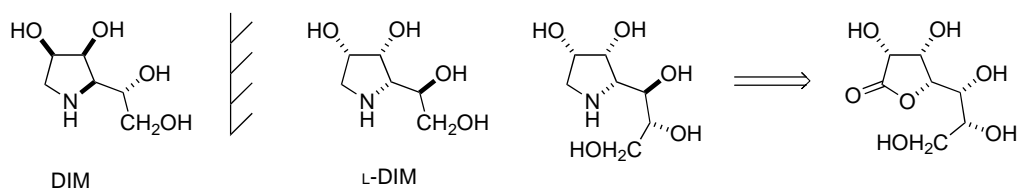
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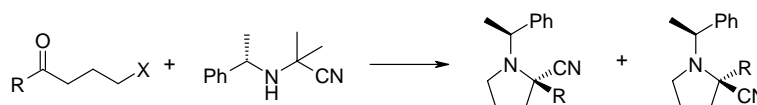
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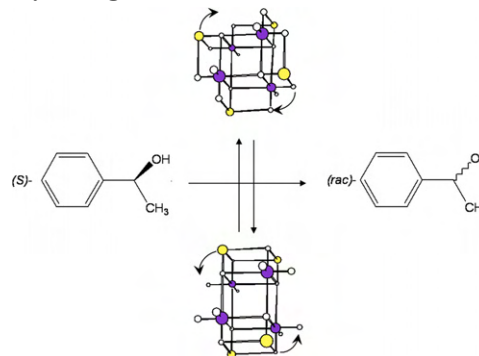


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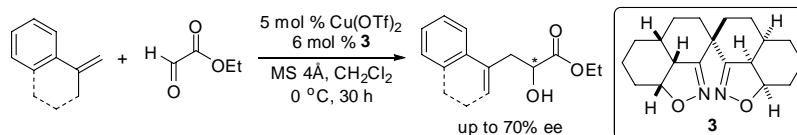
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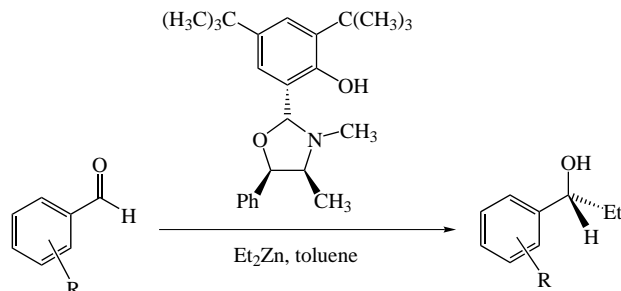
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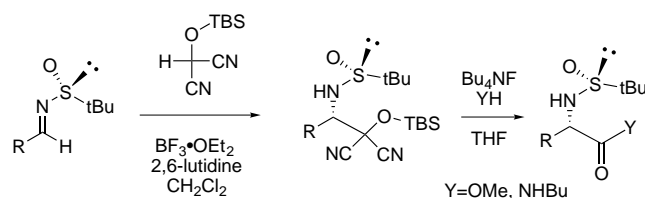
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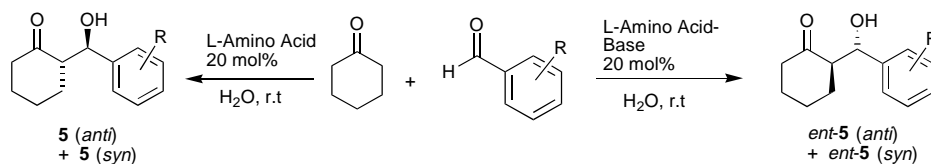
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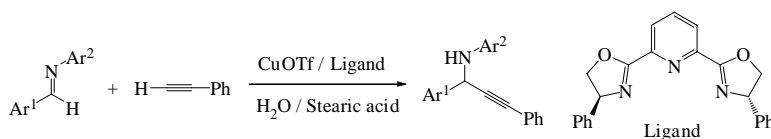
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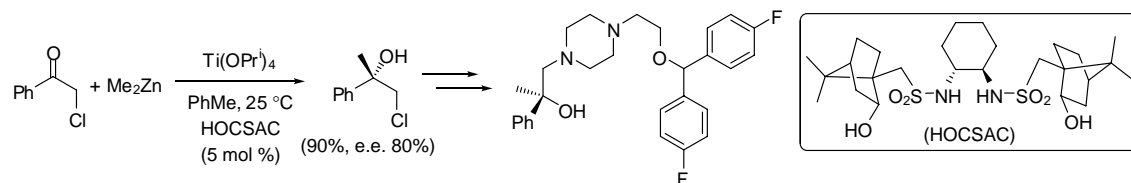
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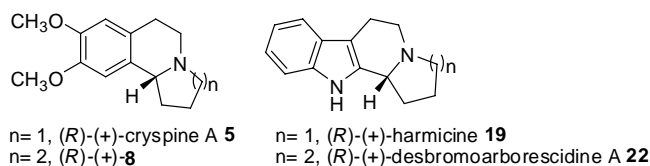
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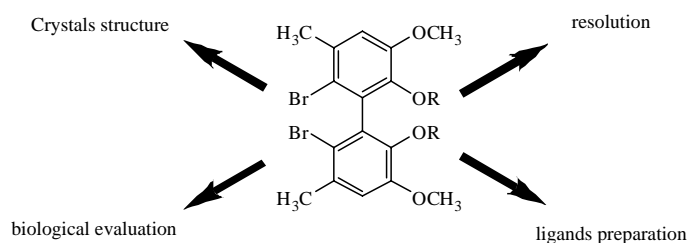
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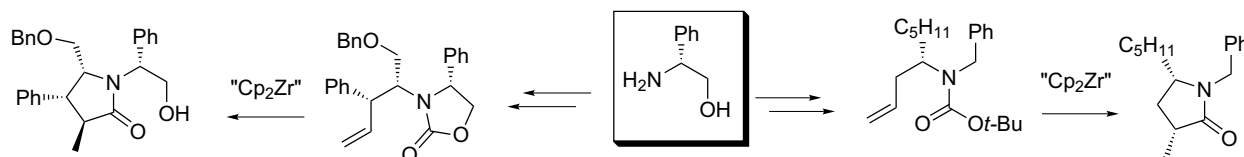
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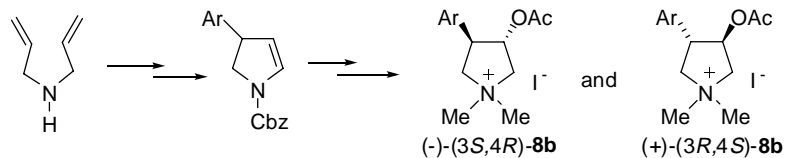


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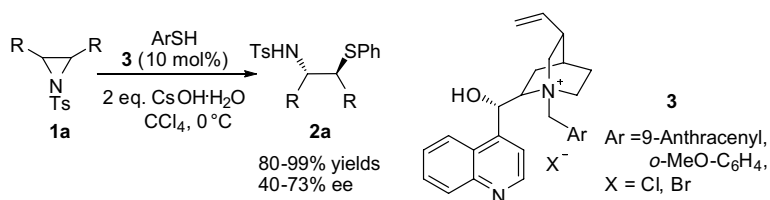
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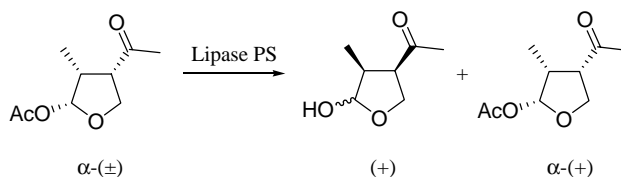
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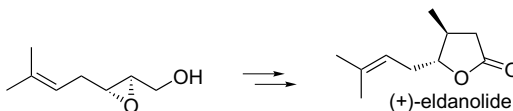


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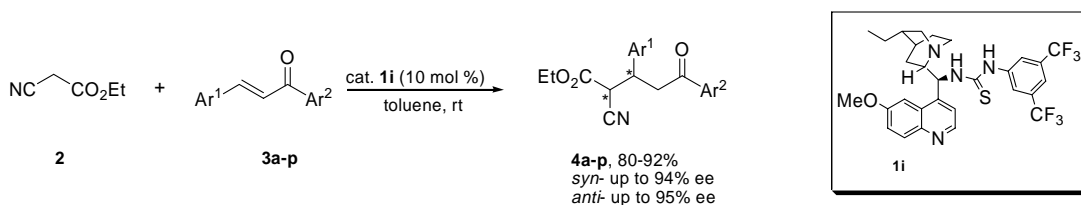
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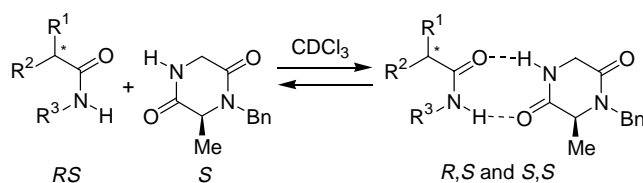
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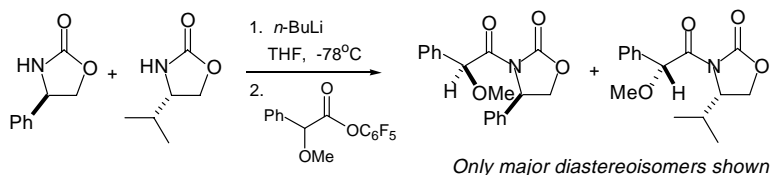
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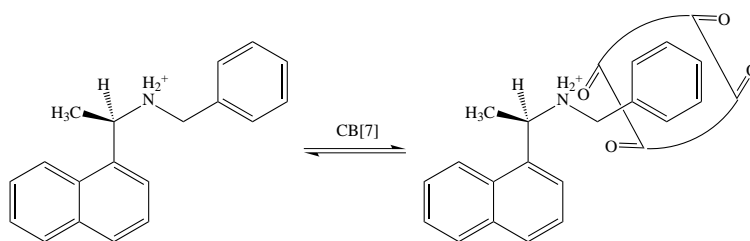
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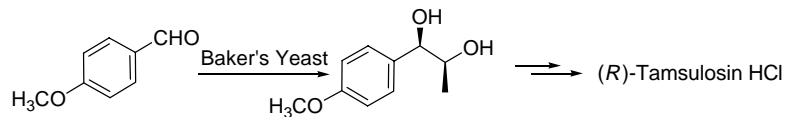
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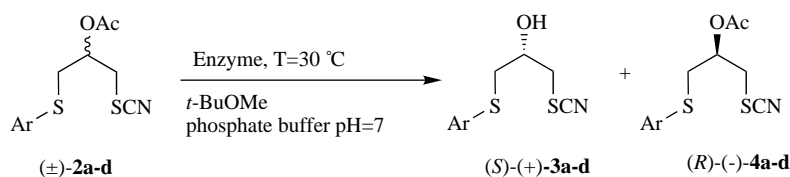
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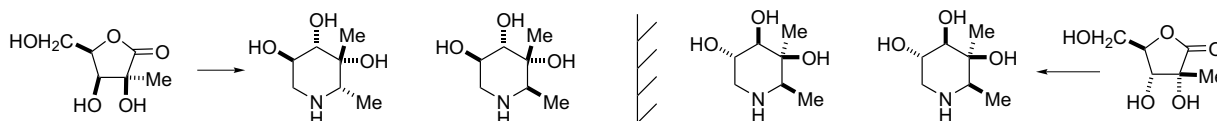
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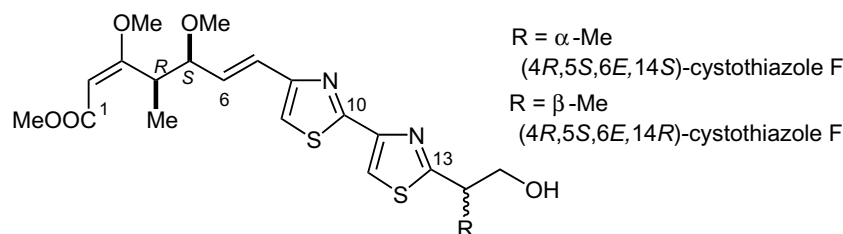
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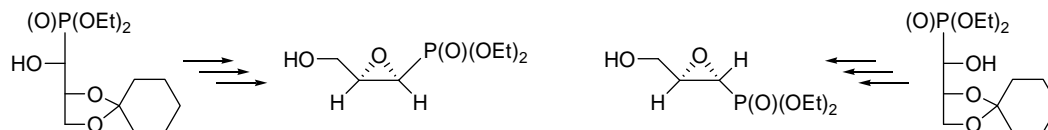
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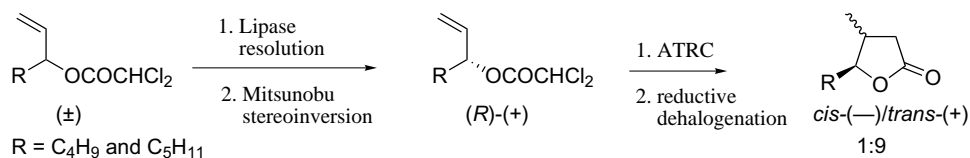
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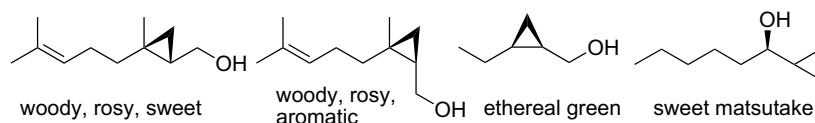
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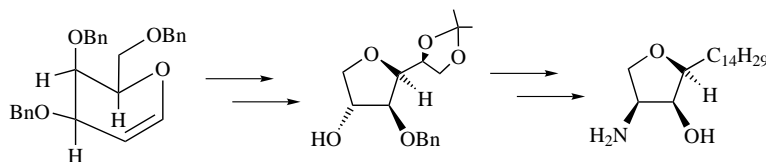
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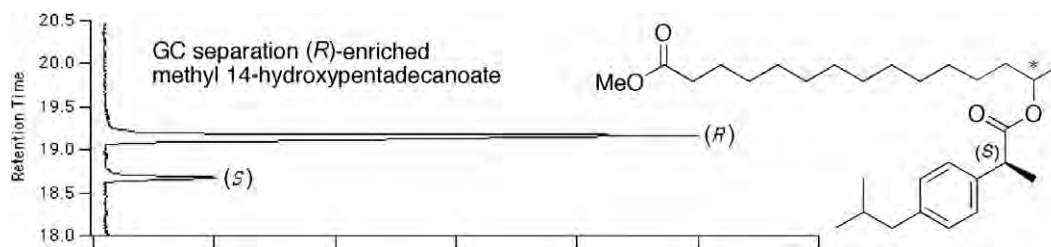
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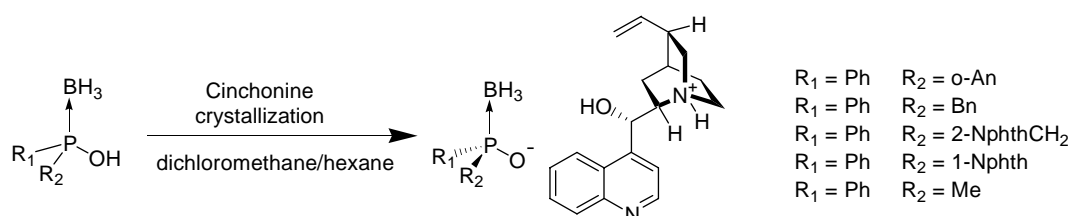
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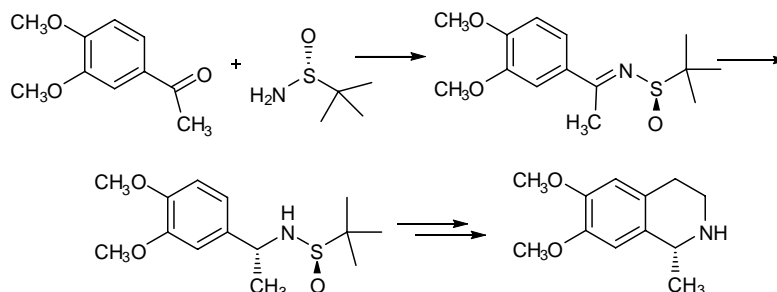
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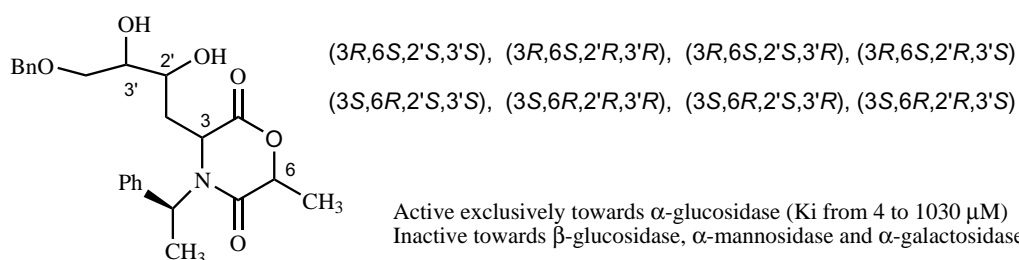
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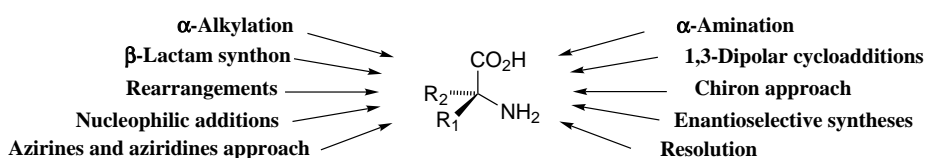
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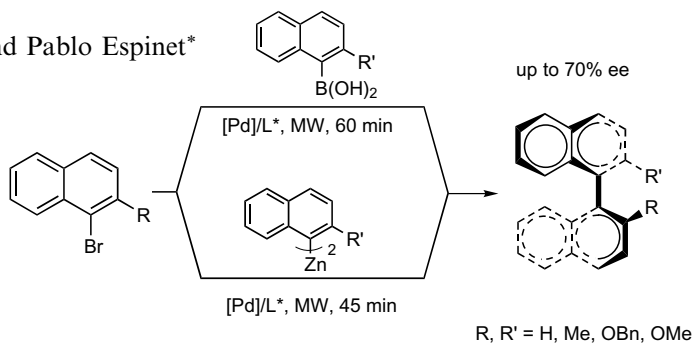


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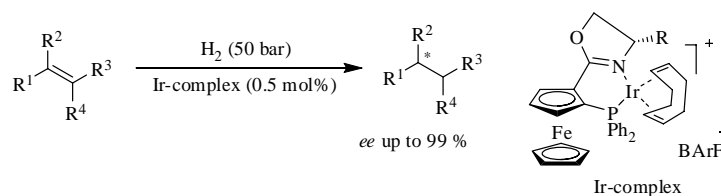


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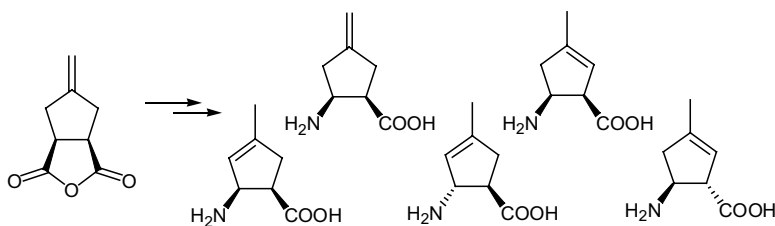
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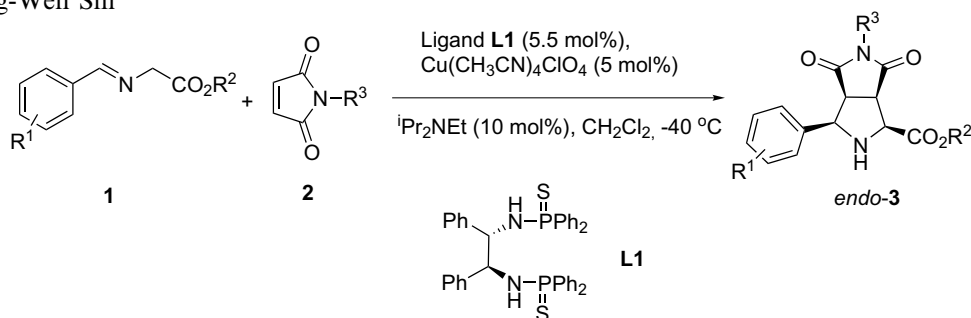
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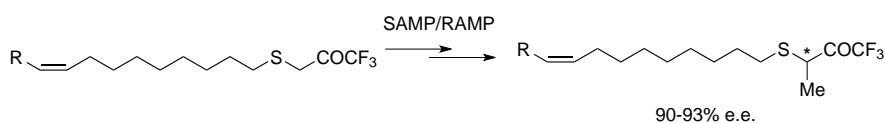
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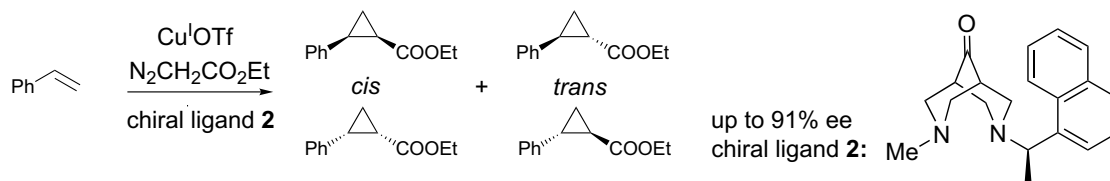
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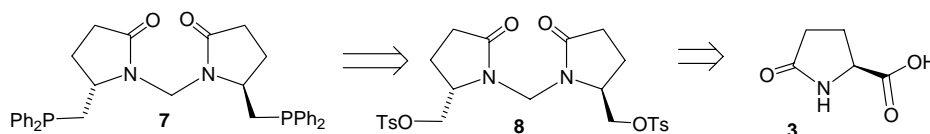
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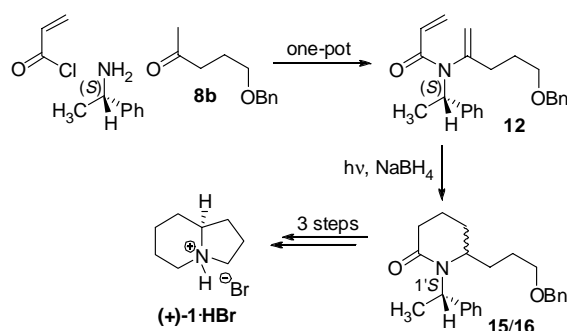
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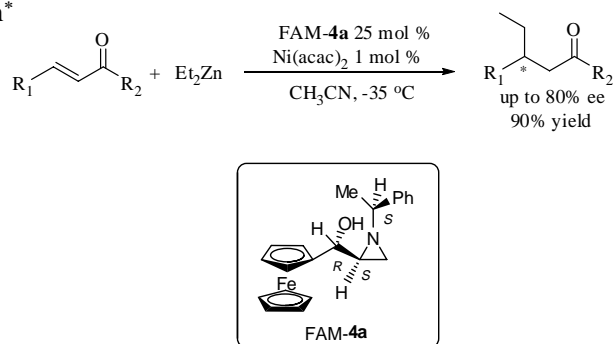
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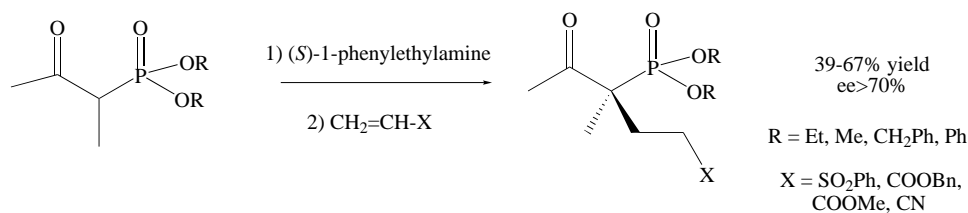
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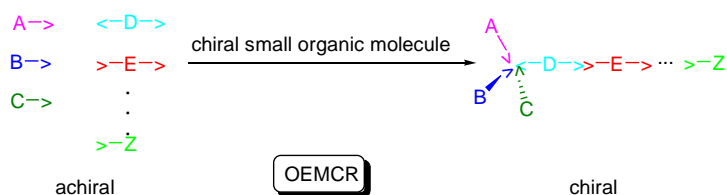
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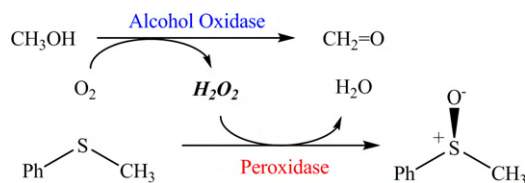


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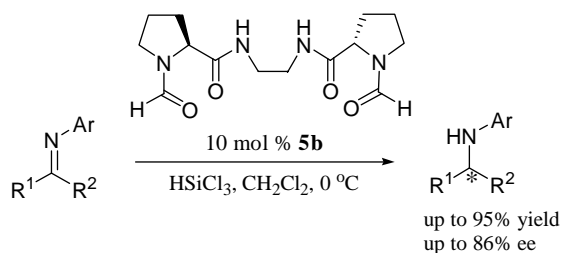


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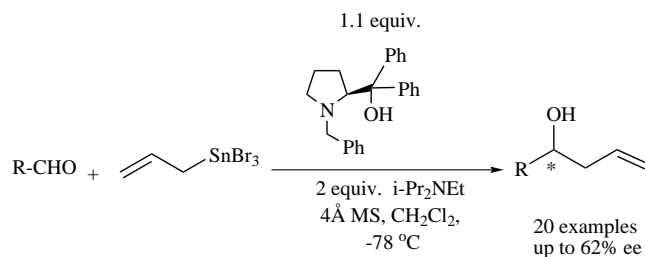
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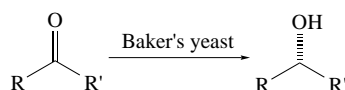
Ling-yan Liu, Jing Sun, Nan Liu, Wei-xing Chang and Jing Li*



***Daucus carota* and baker's yeast mediated bio-reduction of prochiral ketones**

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Jhillu S. Yadav, Garudammagari S. K. K. Reddy, Gowravaram Sabitha, Avvaru D. Krishna, Attaluri R. Prasad, Hafeez-U-R-Rahaman, Katta Vishwaswar Rao and Adari Bhaskar Rao*

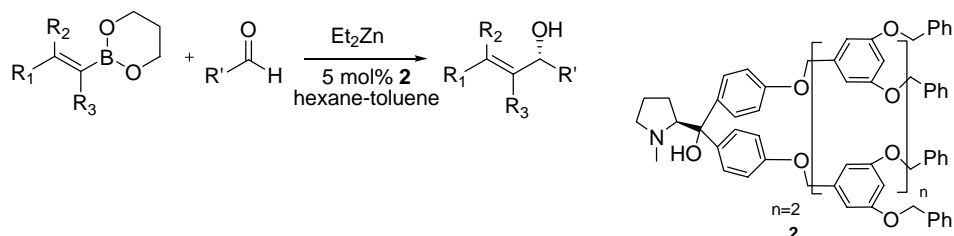


Stereo selective bio-reduction of prochiral ketones like, indanones, tetralones and mono terpene ketones into chiral secondary alcohols using *Daucus carota* root homogenate and fermented baker's yeast cells is described. The application of this methodology in asymmetric bio-reduction of ketones has shown wide substrate specificity, good yields and enantioselectivity in mild and eco-friendly environment.

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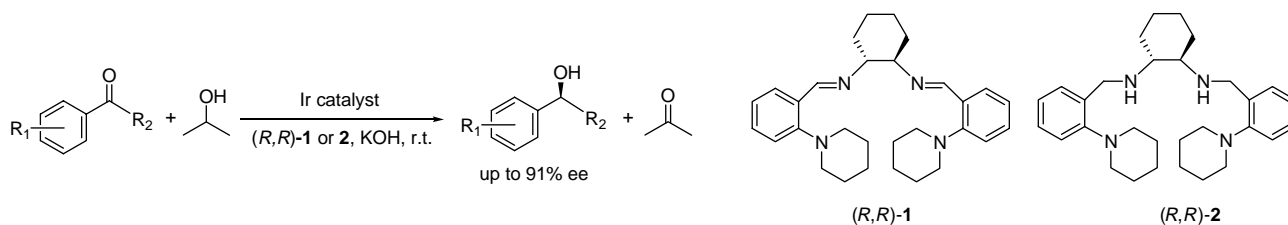
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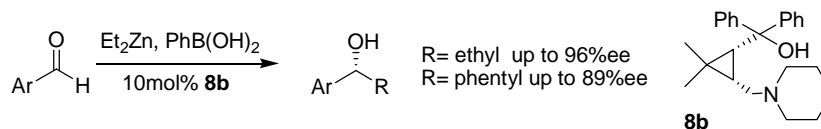
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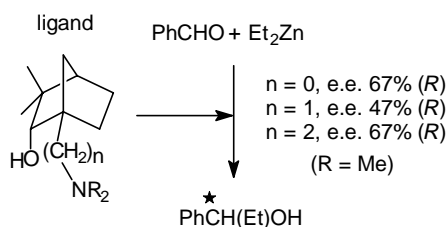
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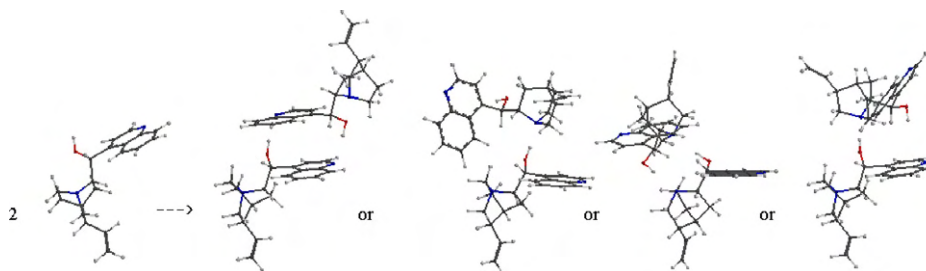
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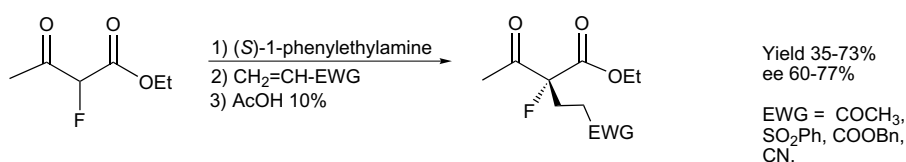
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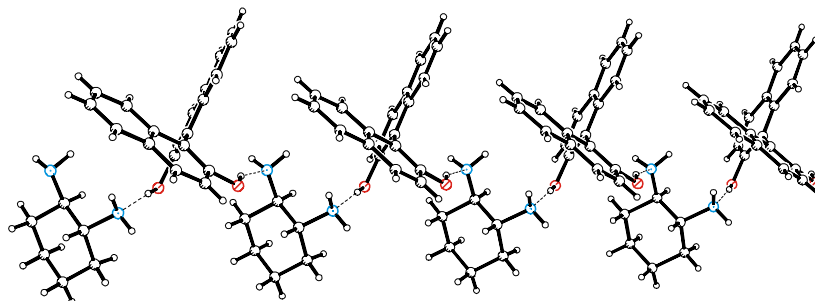
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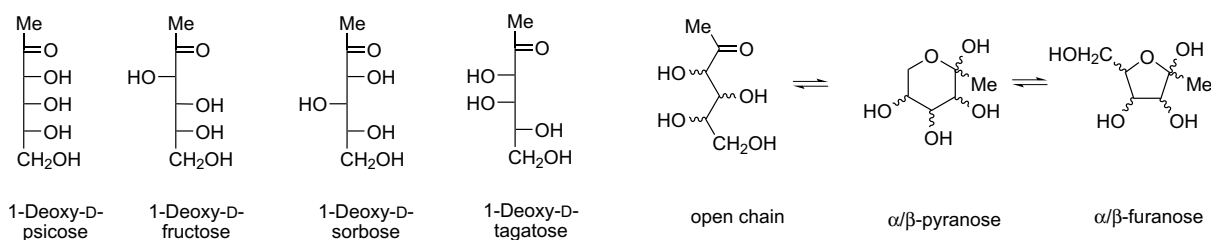
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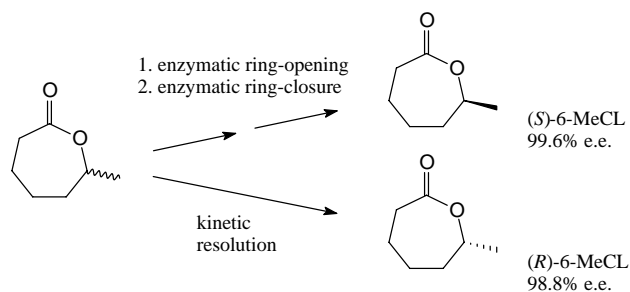
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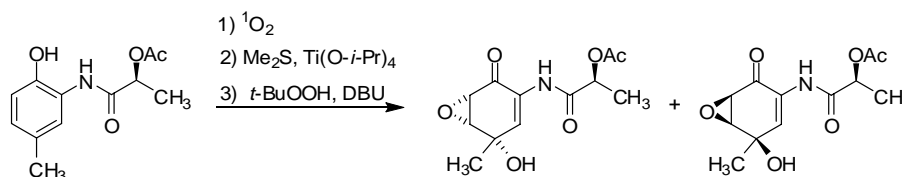
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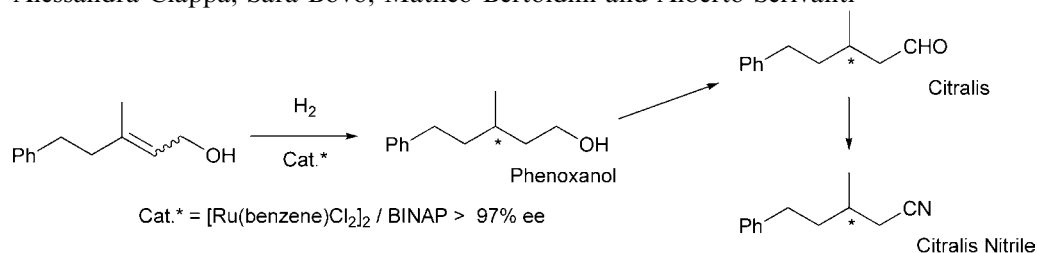
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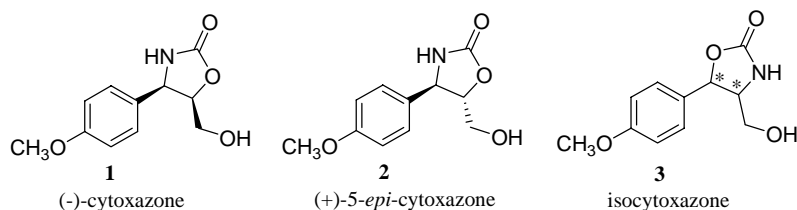
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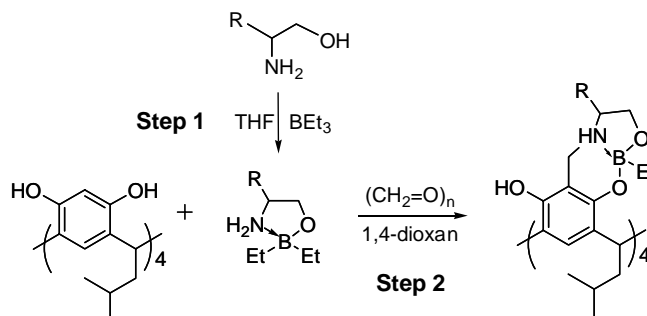


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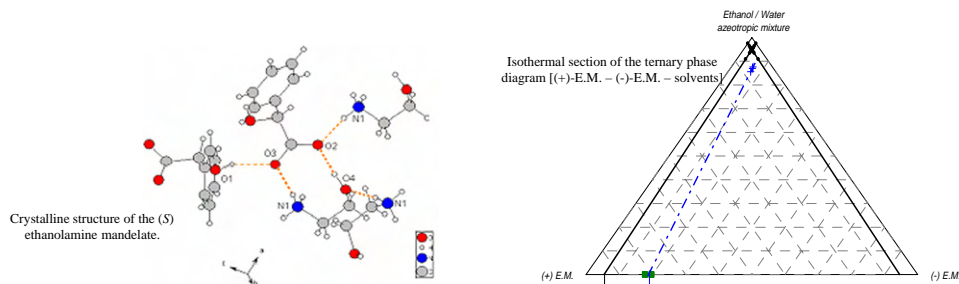
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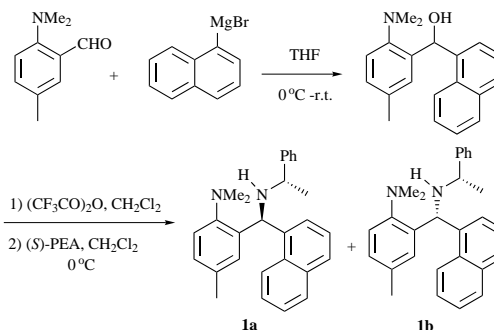
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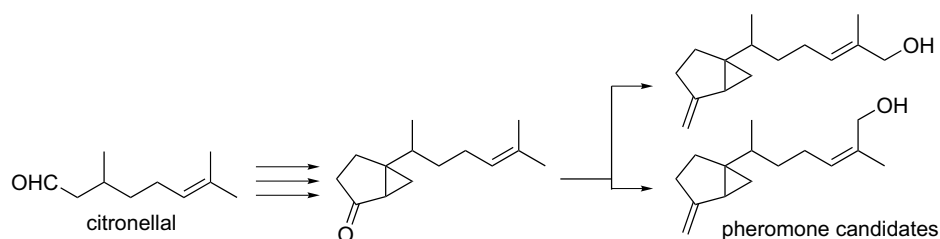


Wenge Wang, Fengnian Ma, Xiumin Shen and Cong Zhang*

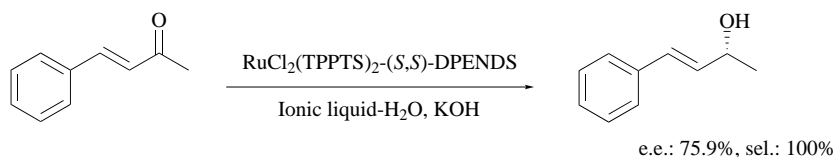
The two new diastereoisomeric chiral auxiliaries **1a** and **1b** were synthesized conveniently and effectively. ^1H NMR was employed to investigate their chiral recognition ability. Compared with (*S*)-PEA, these new chiral auxiliaries exhibited better enantioselectivity towards the carboxylic acids we had chosen.



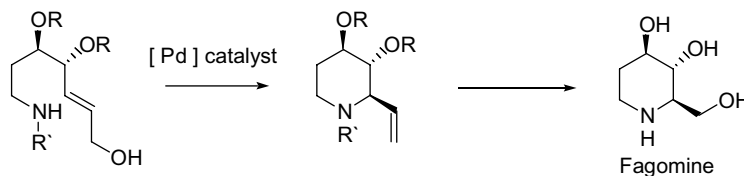
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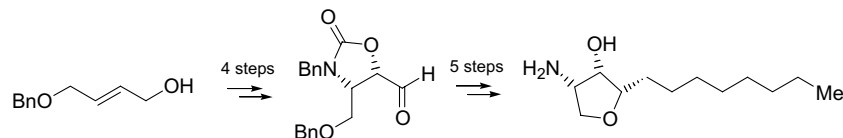
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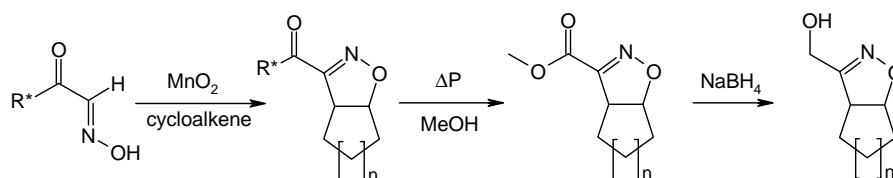
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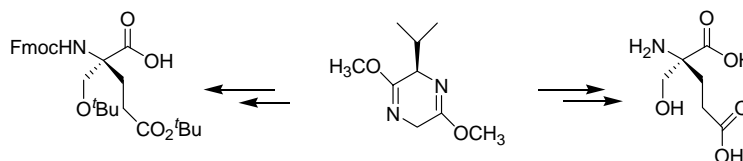
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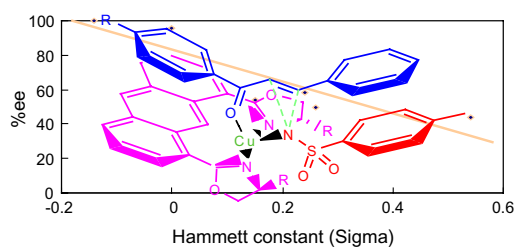
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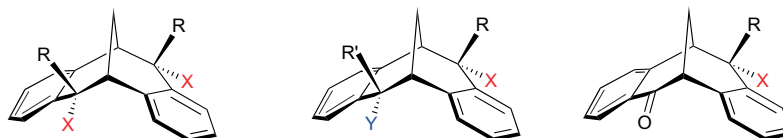
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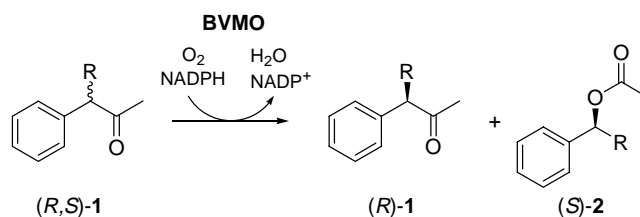
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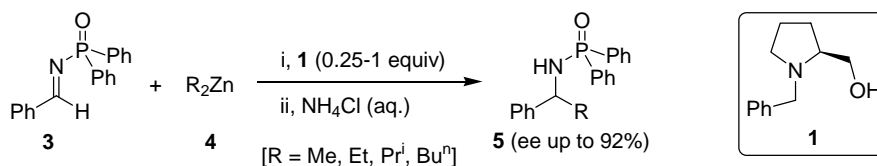
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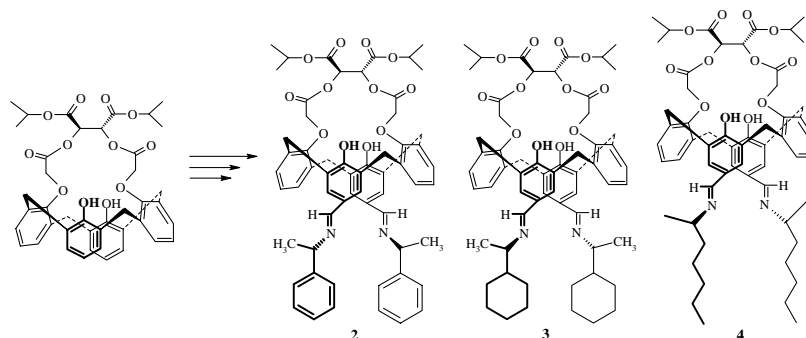
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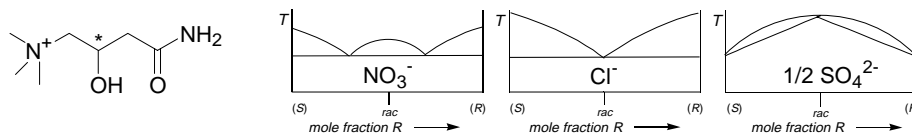
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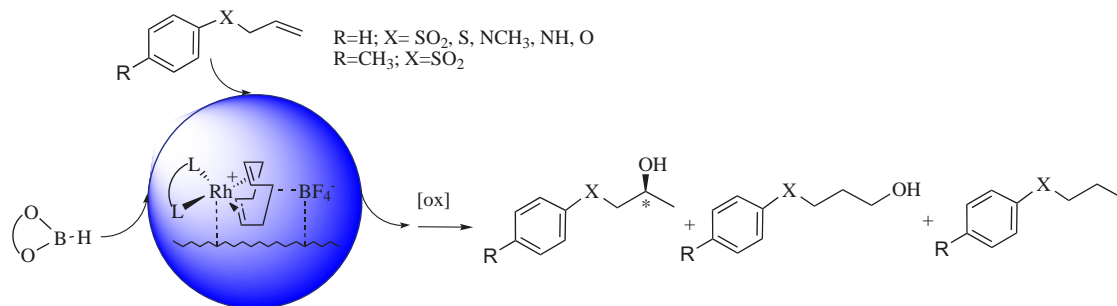
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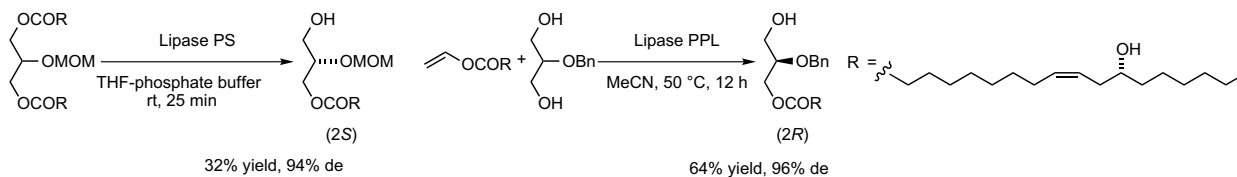
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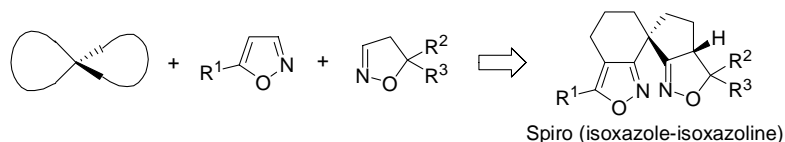
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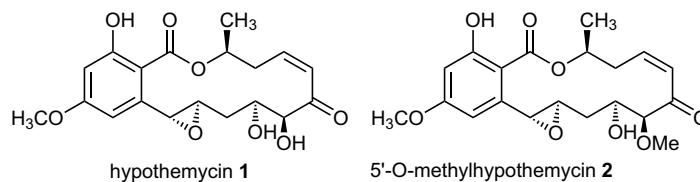
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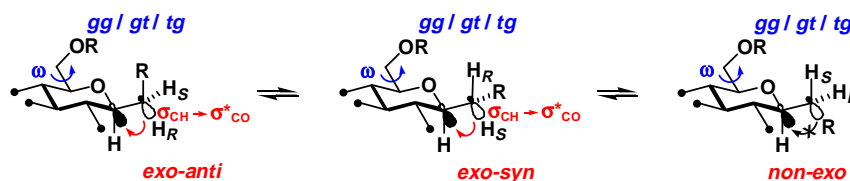
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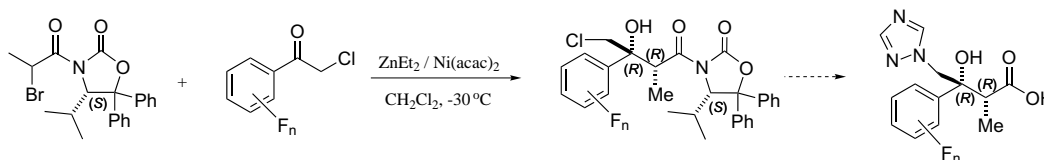
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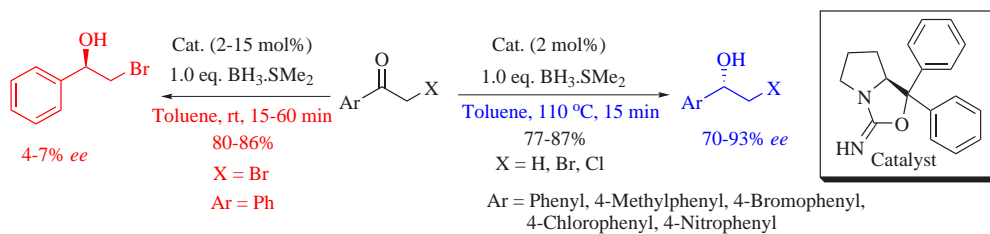
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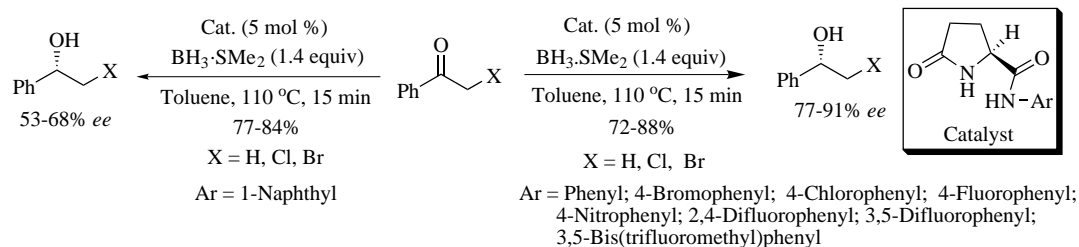
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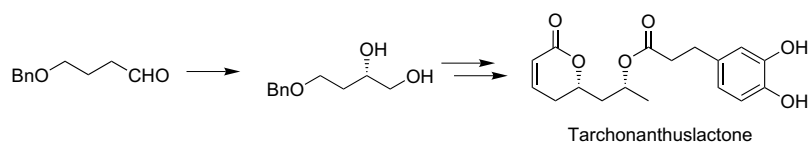
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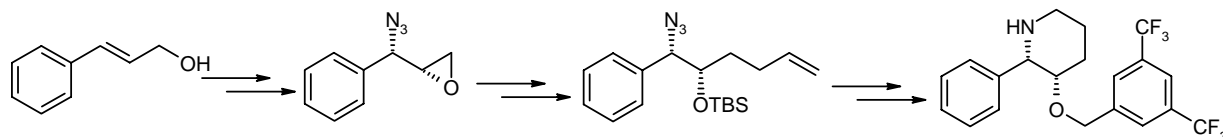
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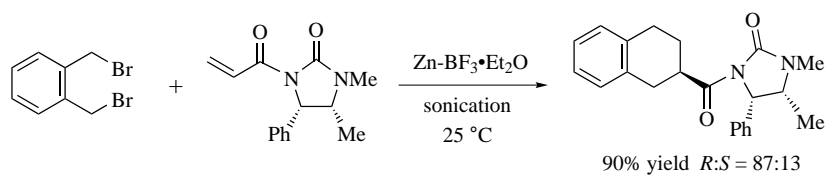
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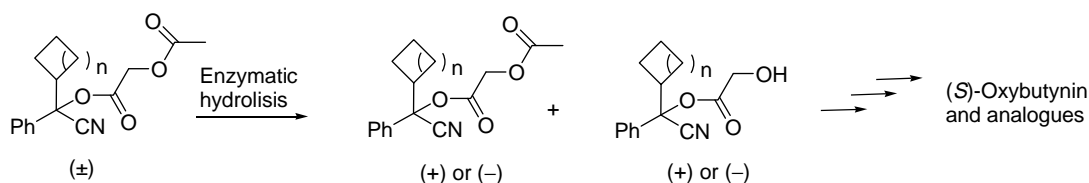
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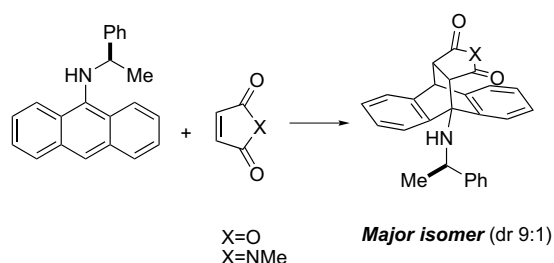
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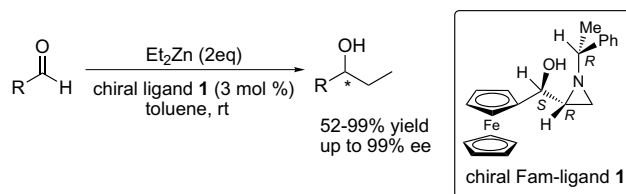
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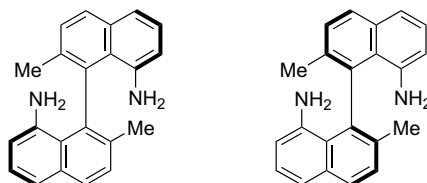
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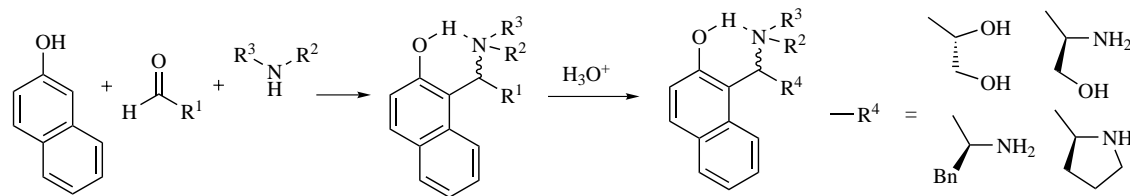
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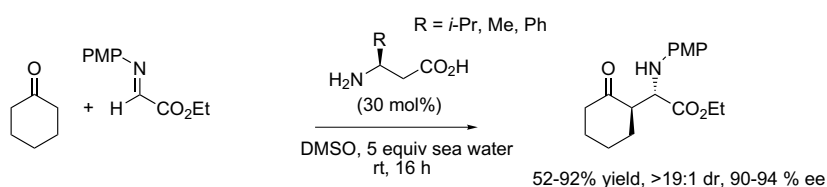
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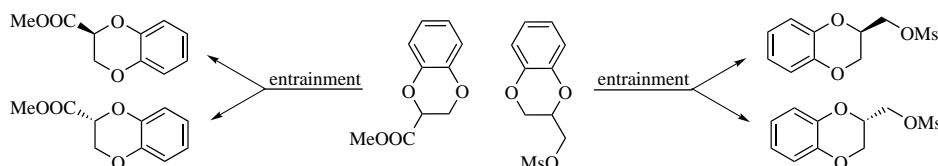
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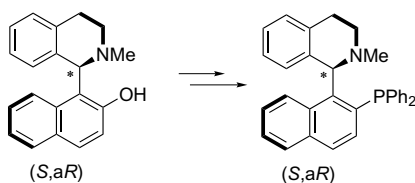


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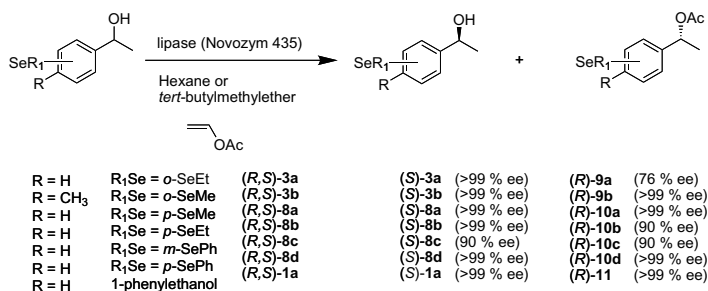
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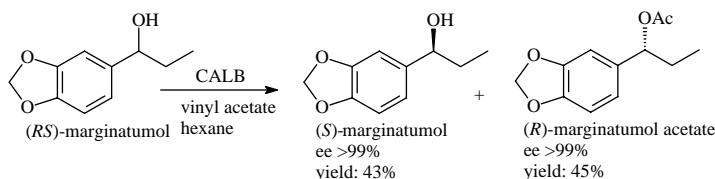
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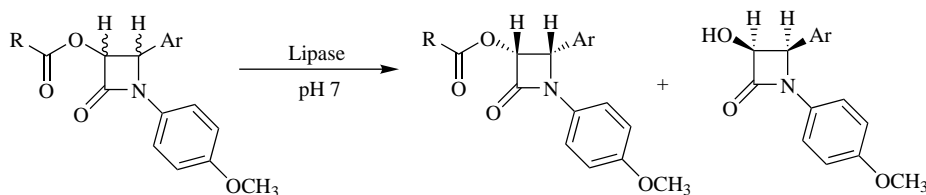
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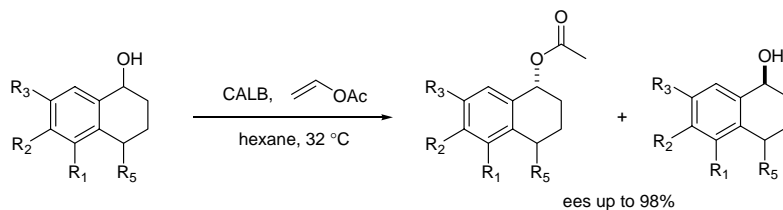
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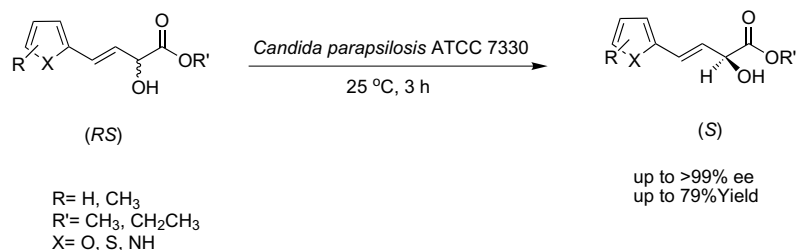
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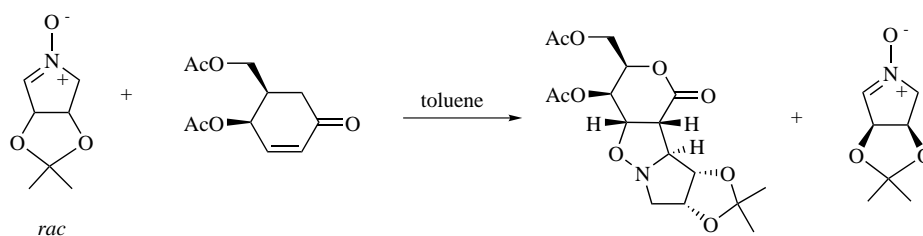
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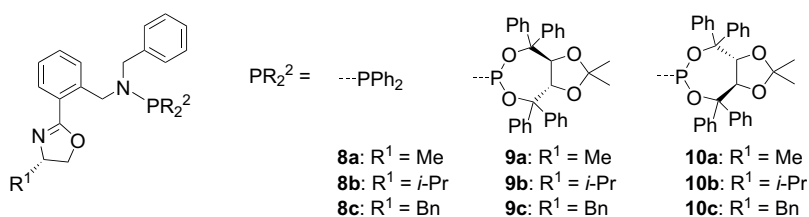
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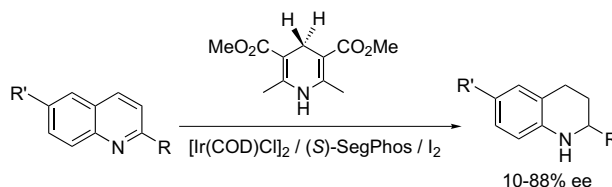
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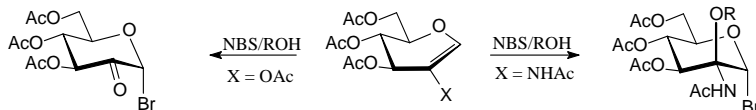
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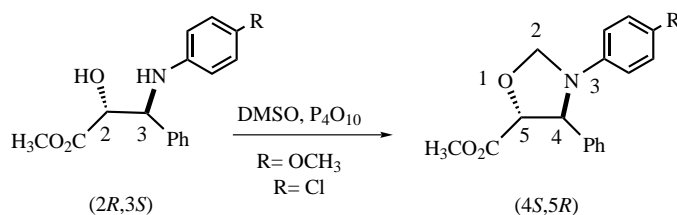
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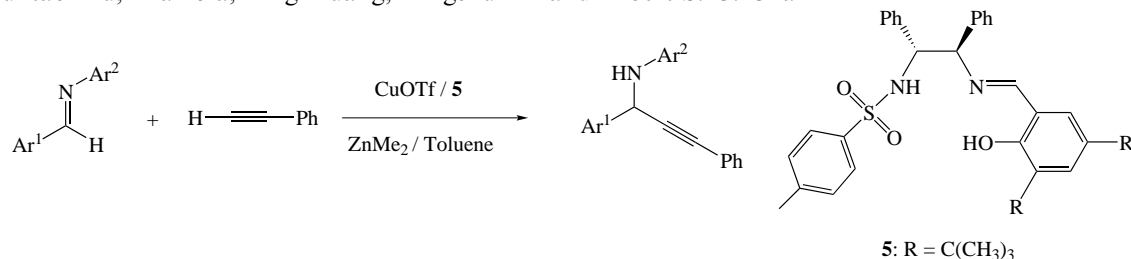


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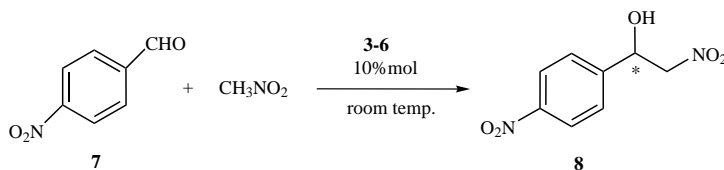
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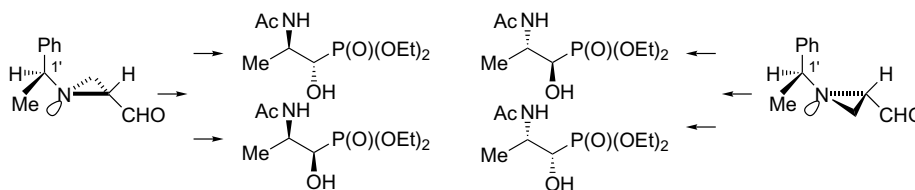
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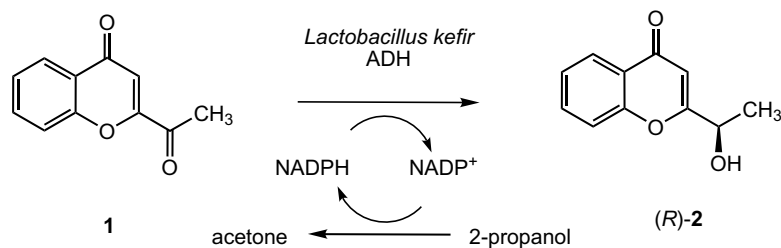
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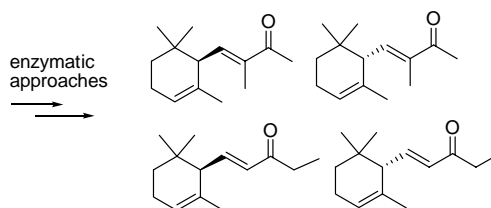
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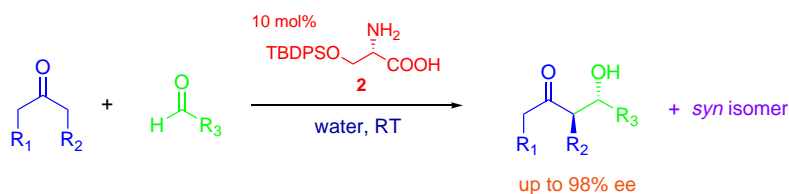
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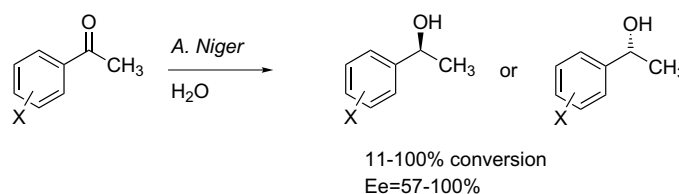
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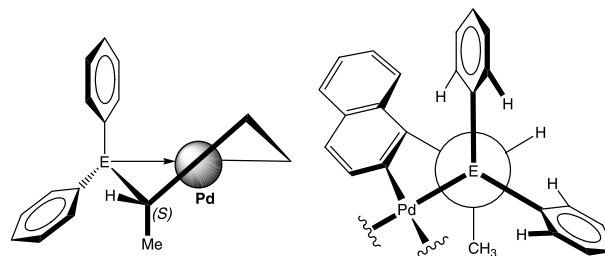
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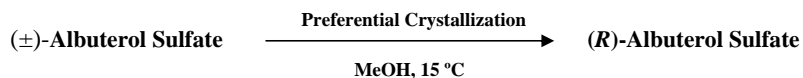
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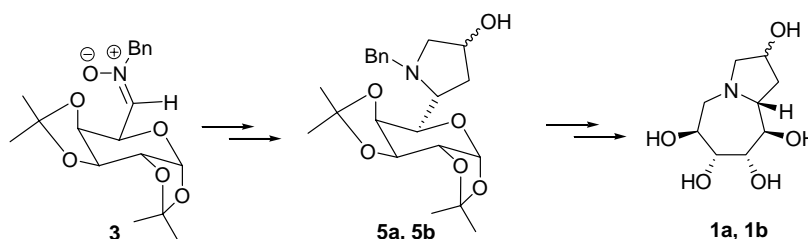


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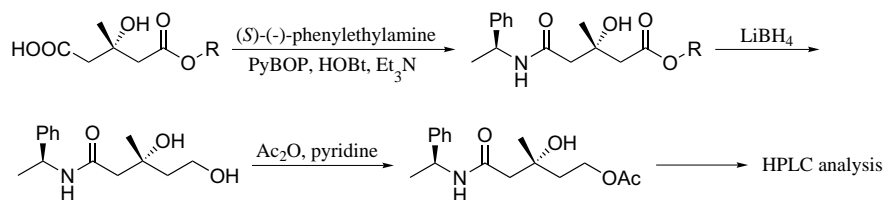
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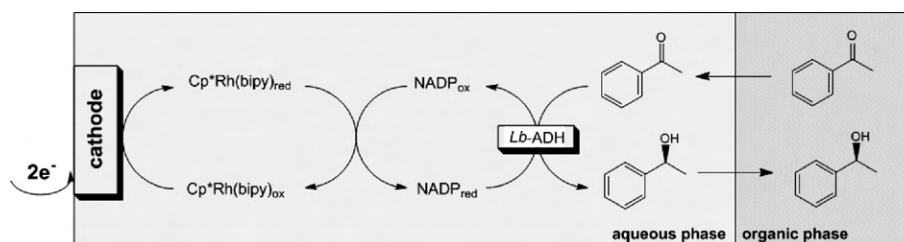
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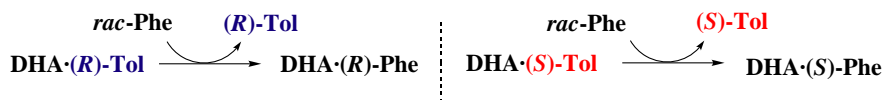
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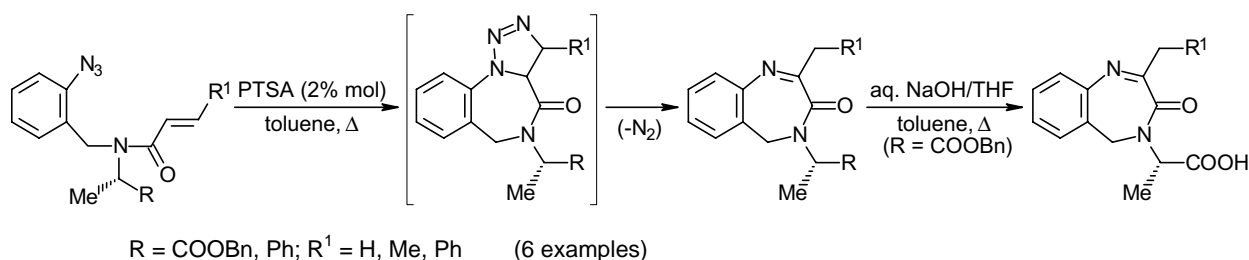




DHA: dehydrocholic acid, Tol: tolyl methyl sulfoxide, Phe: phenyl methyl sulfoxide

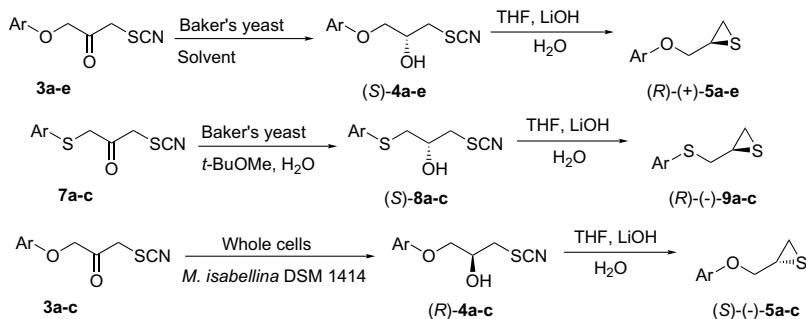
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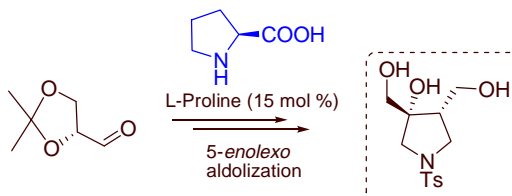
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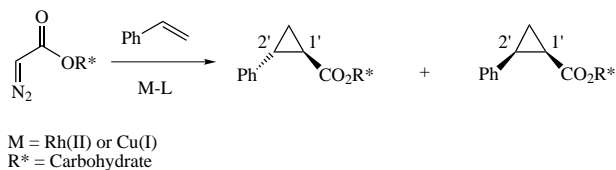
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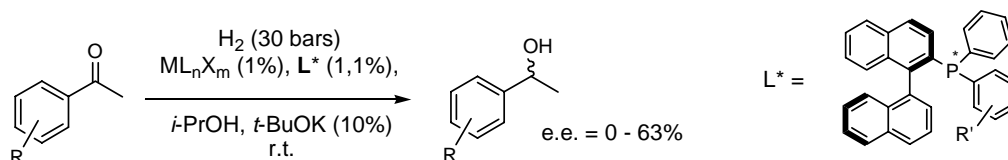
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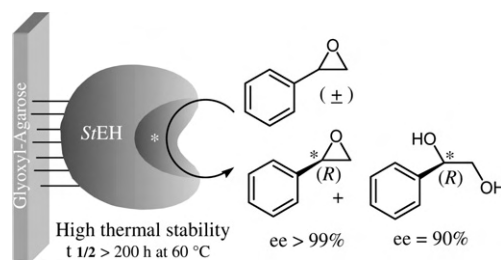
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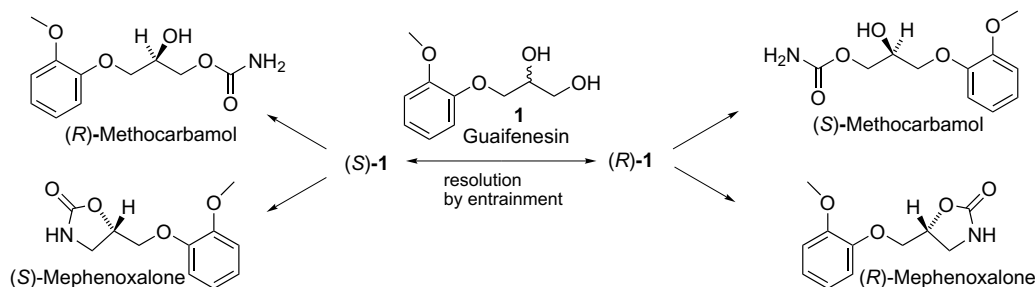
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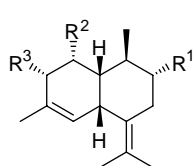
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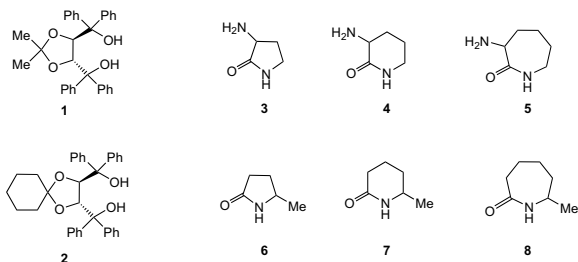


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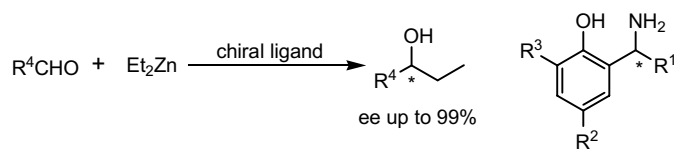


- 2 R¹ = R² = R³ = H
- 3 R¹ = R³ = H; R² = OAc
- 9 R¹ = OH; R² = R³ = H
- 10 R¹ = R² = H; R³ = OH
- 12 R¹ = R² = H; R³ = OAc
- 13 R¹ = R² = H; R³ = =O
- 16 R¹ = R³ = H; R² = OH

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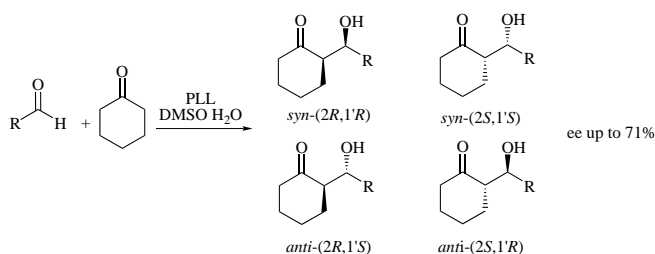
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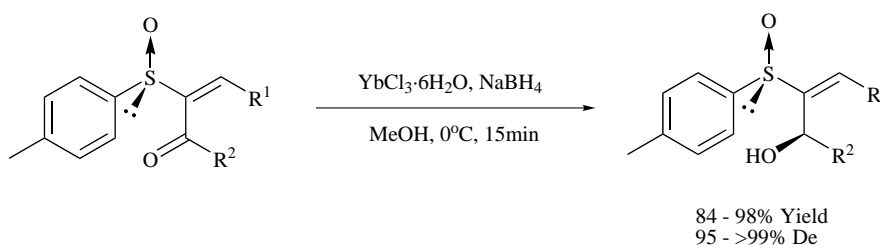


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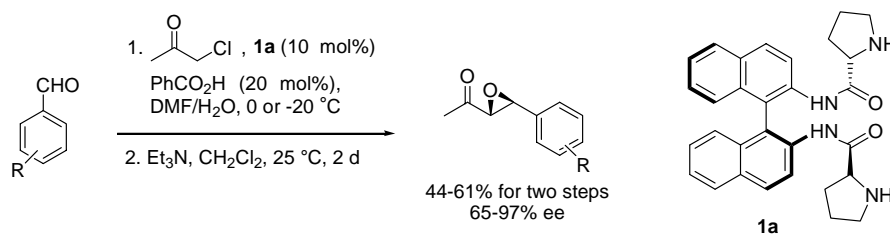
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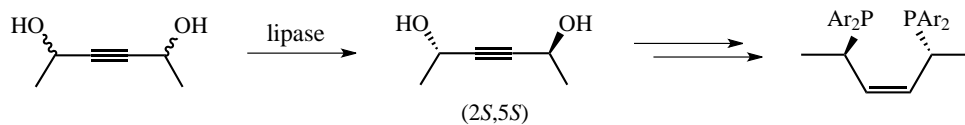
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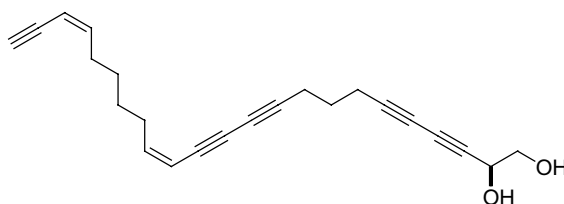
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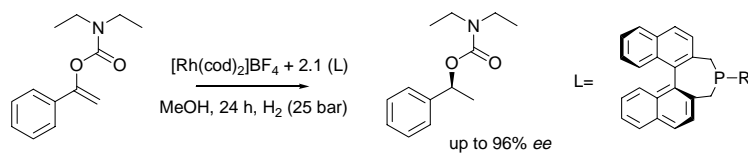
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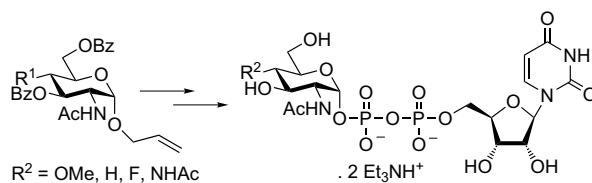
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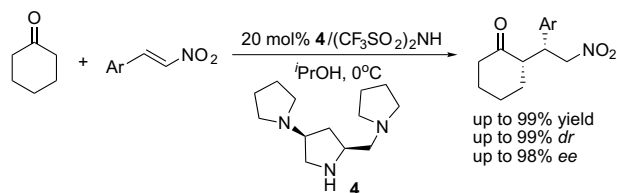
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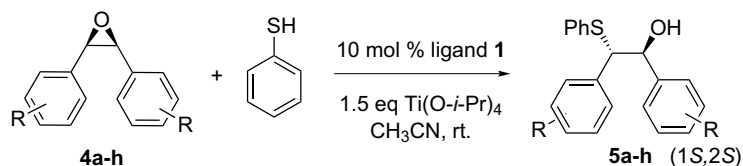
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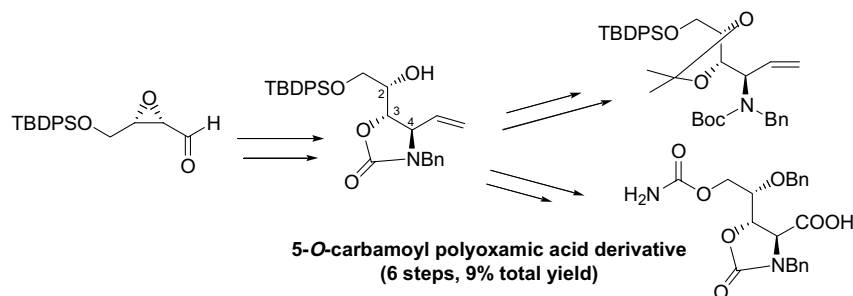
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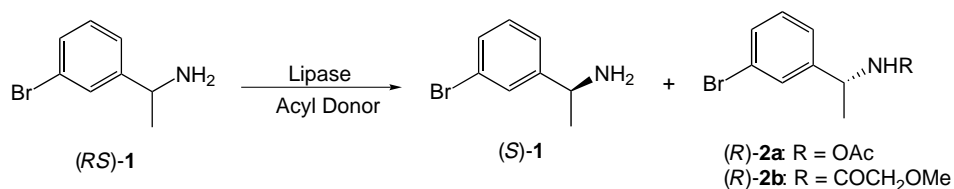
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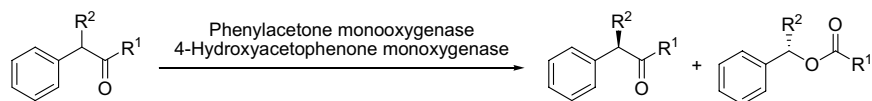
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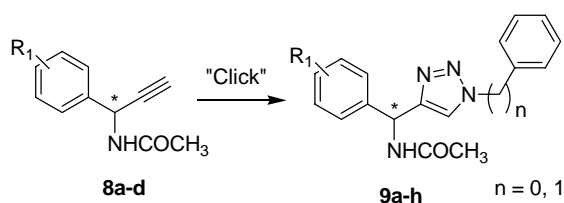
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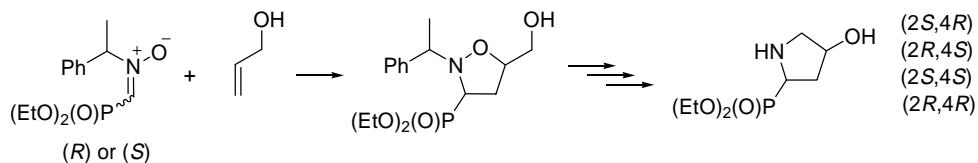
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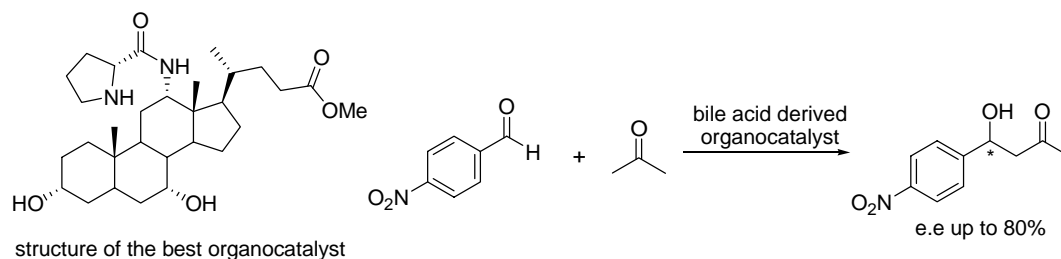
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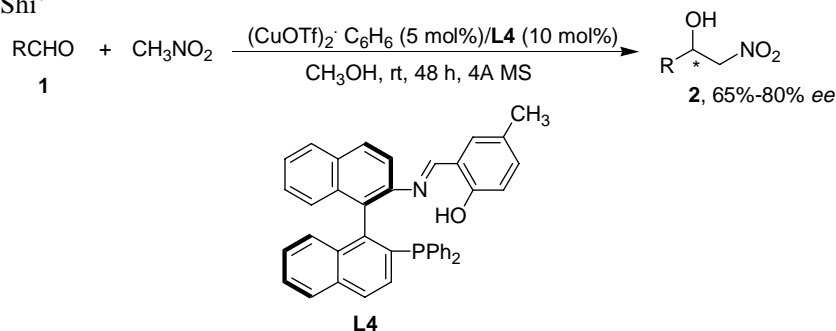
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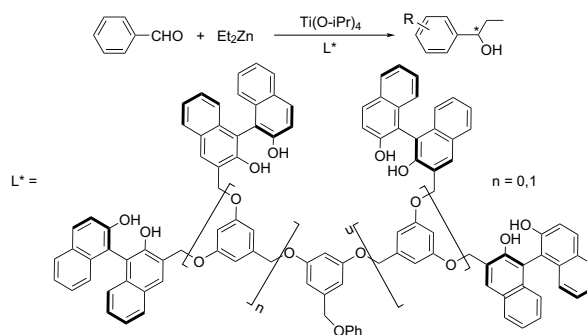
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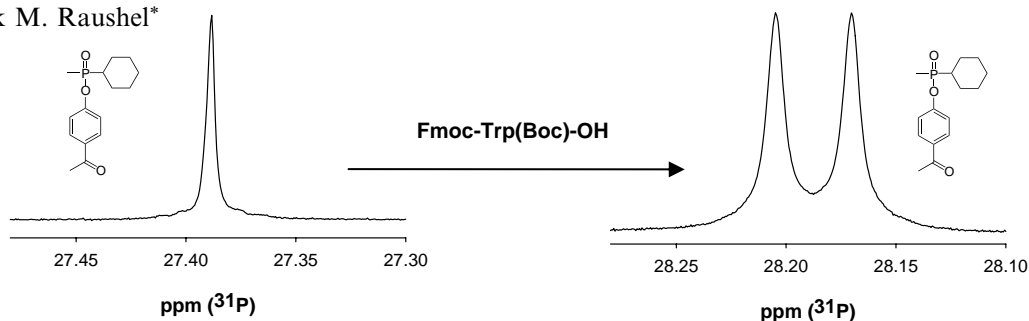
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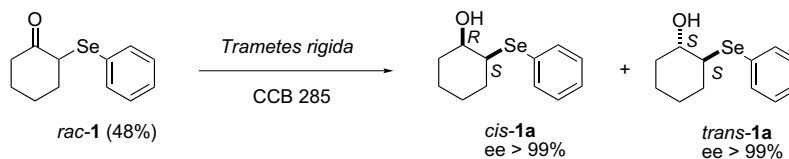
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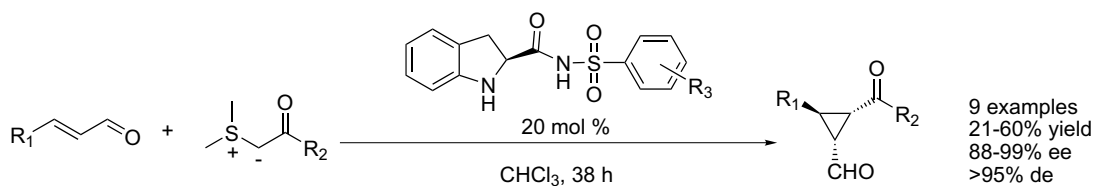
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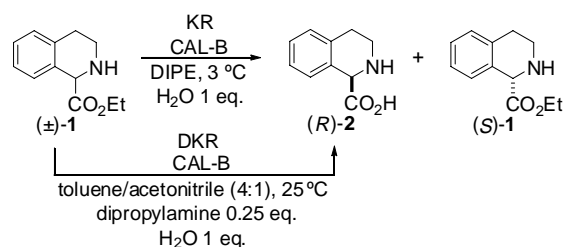
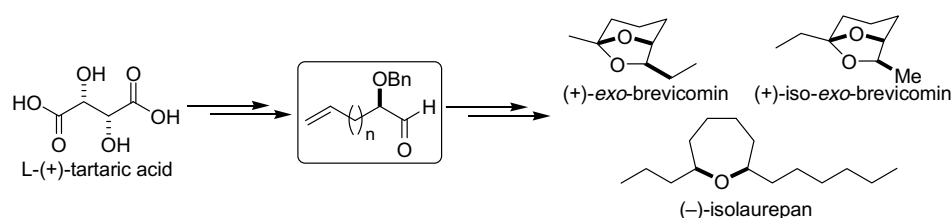
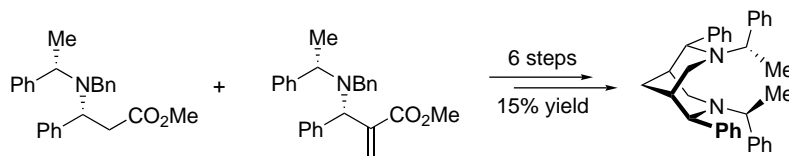
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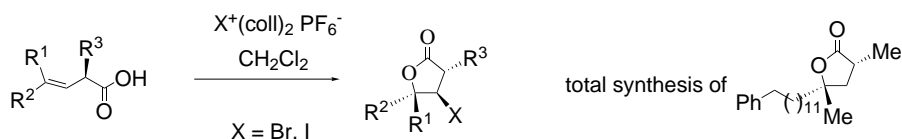
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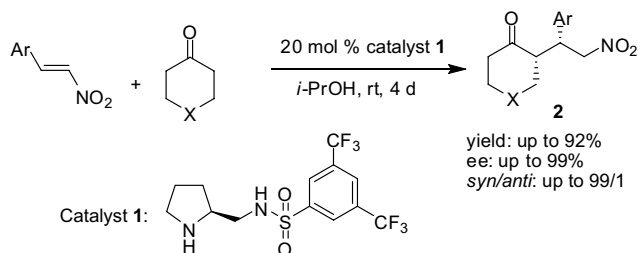
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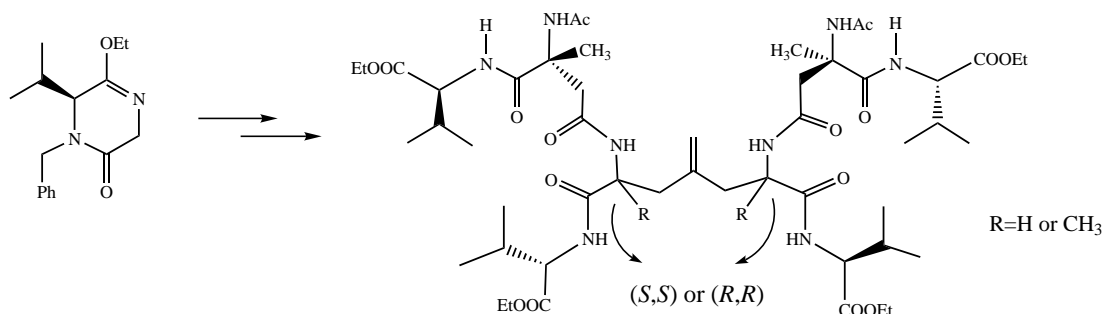
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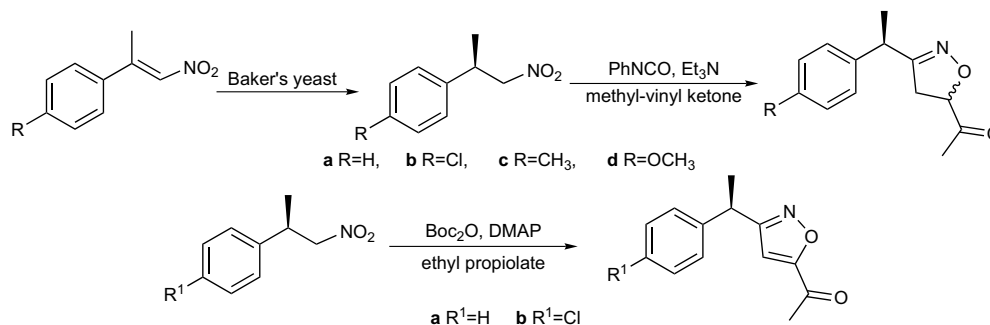
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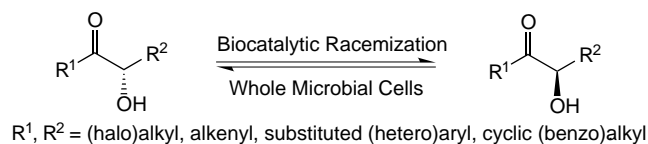
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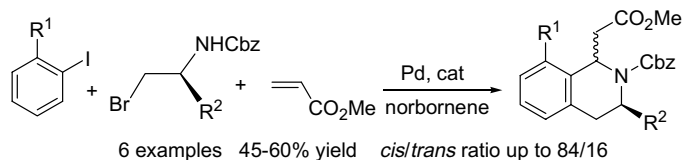
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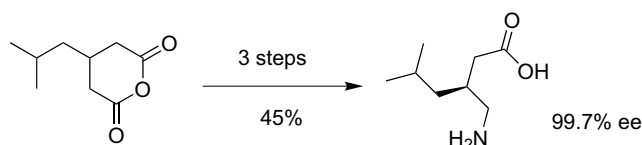
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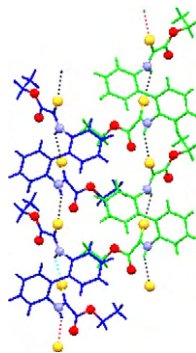
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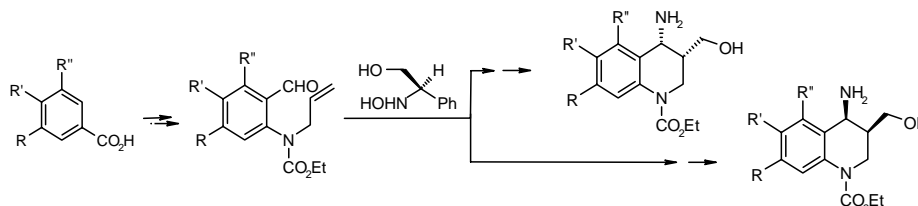
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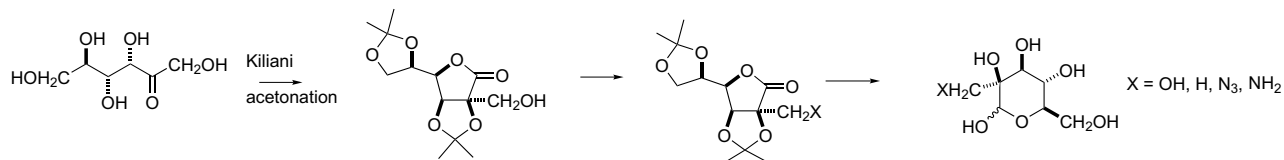
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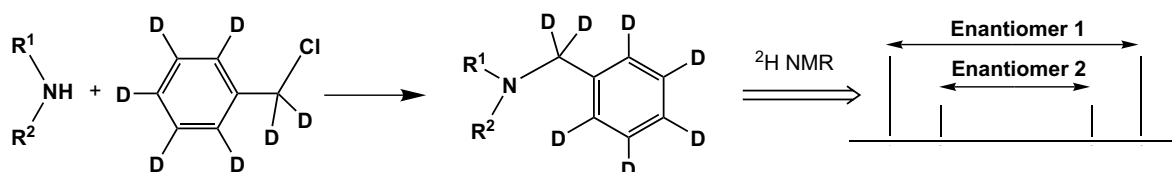
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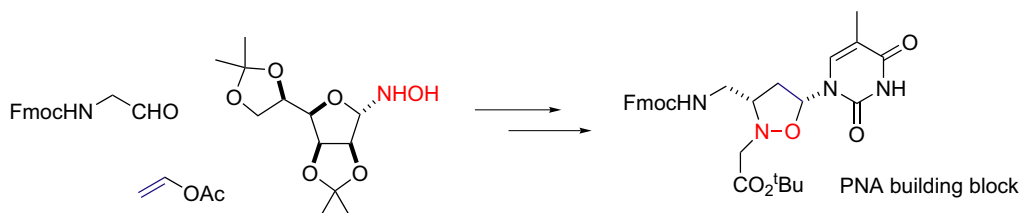
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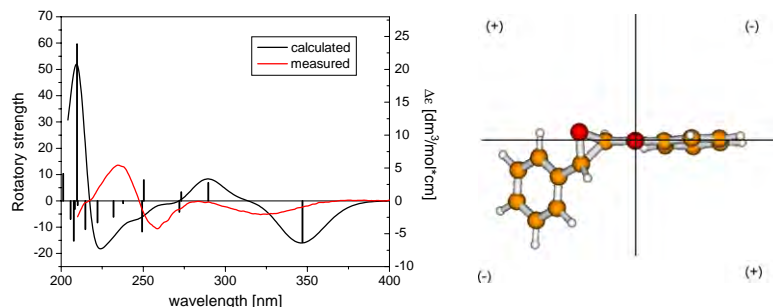


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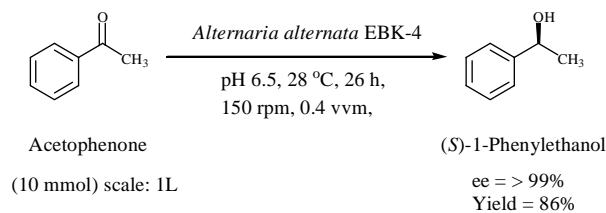
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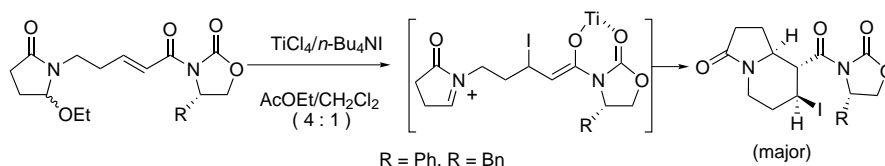
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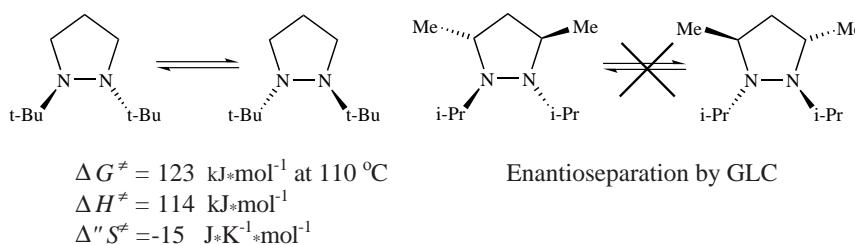
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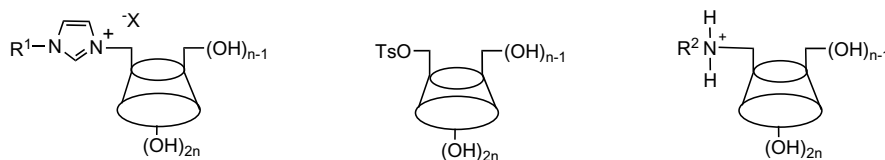
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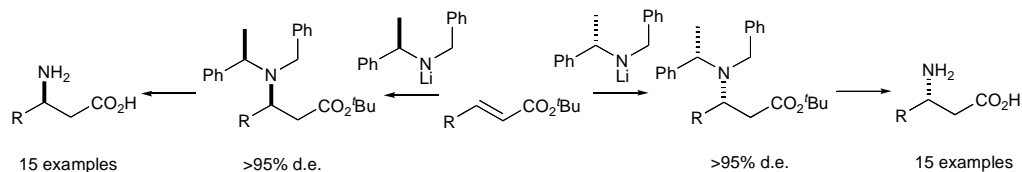
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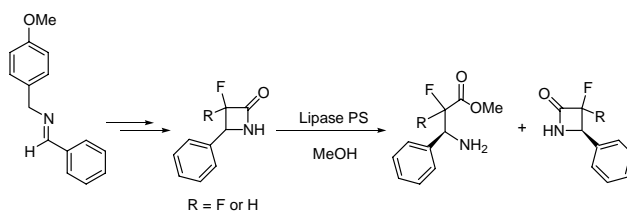


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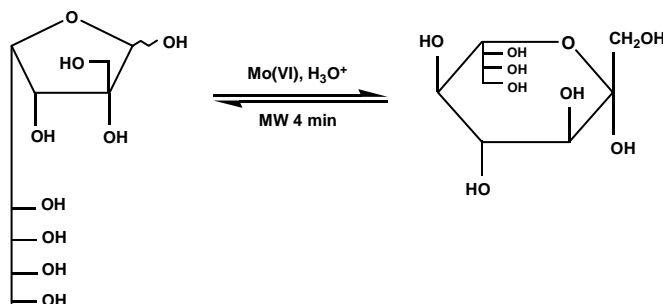
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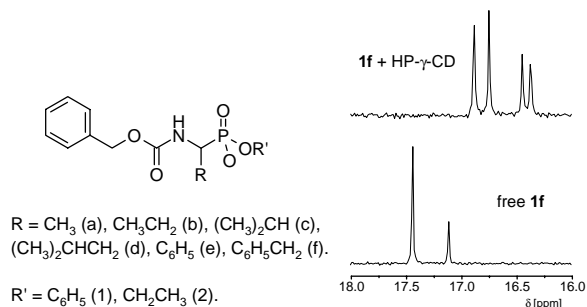
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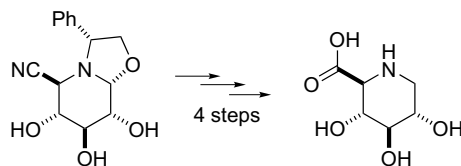
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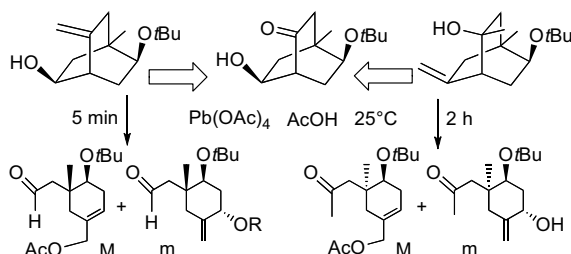
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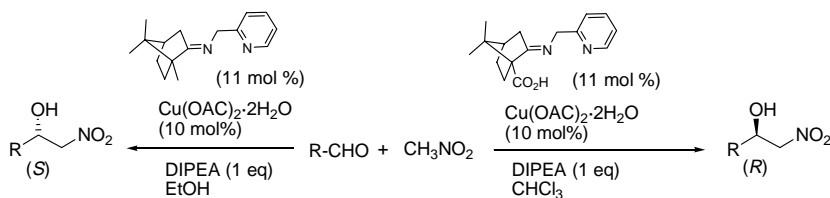
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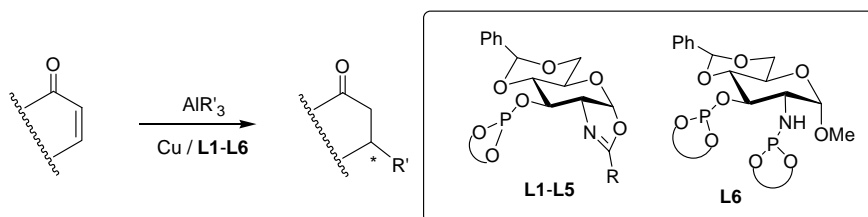
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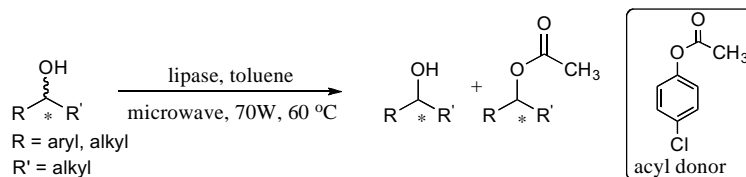
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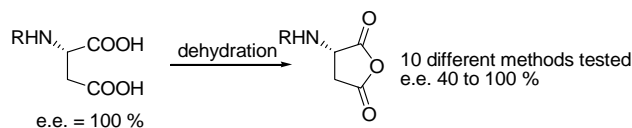
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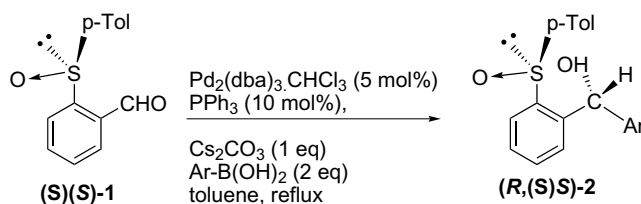
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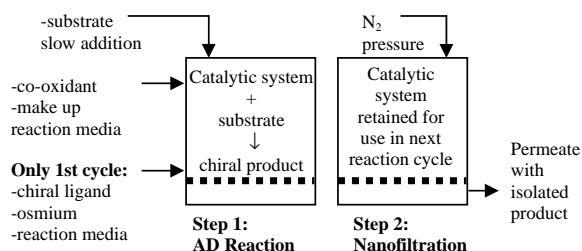
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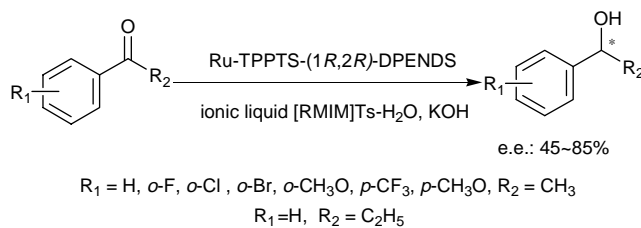


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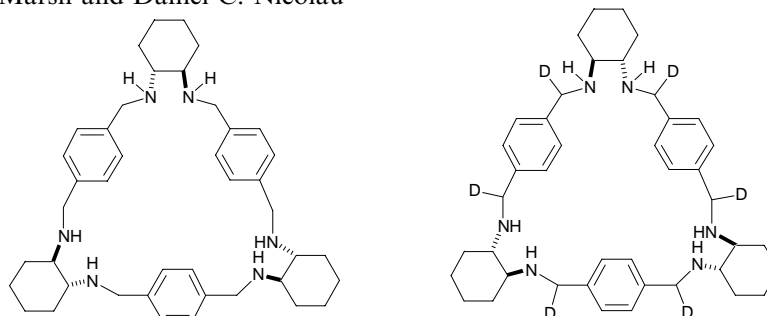
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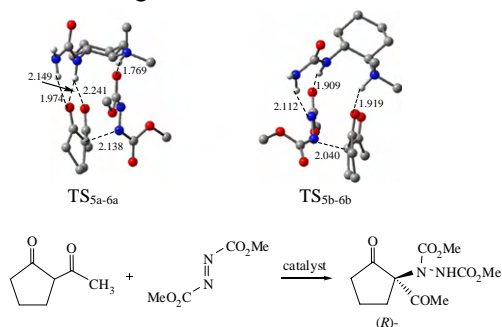
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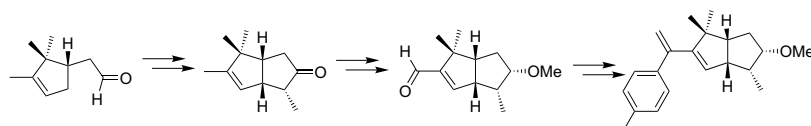
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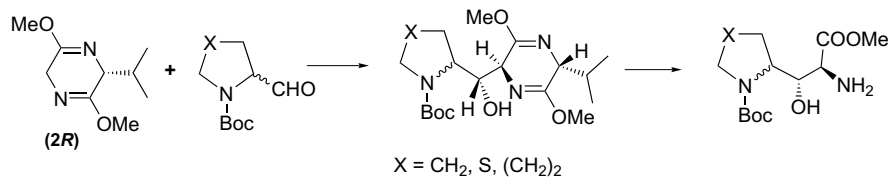
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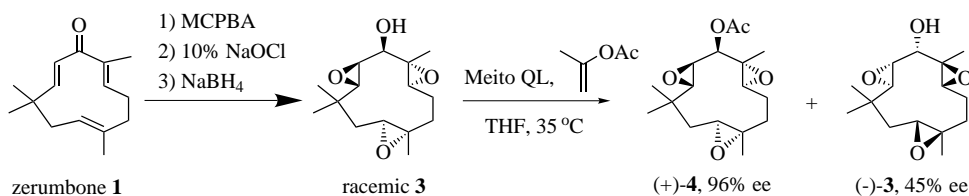
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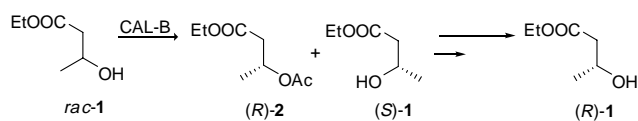
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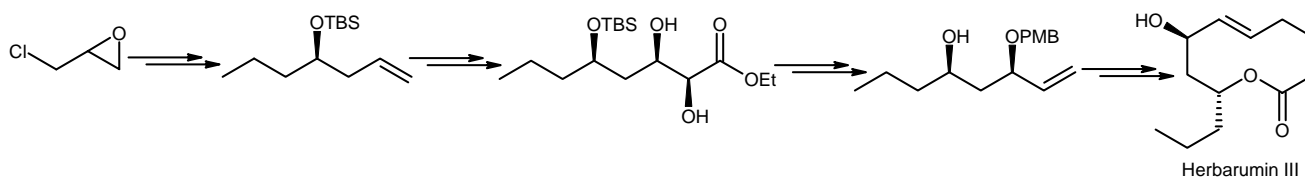
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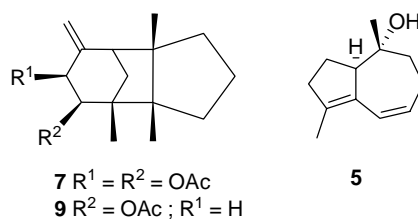
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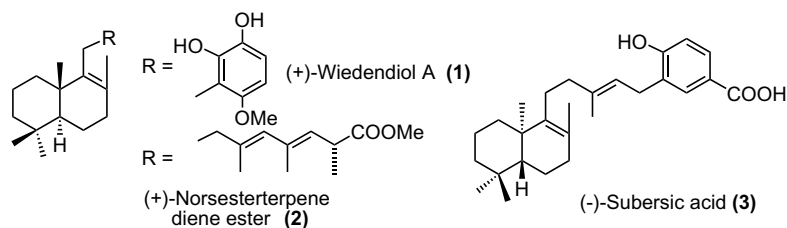
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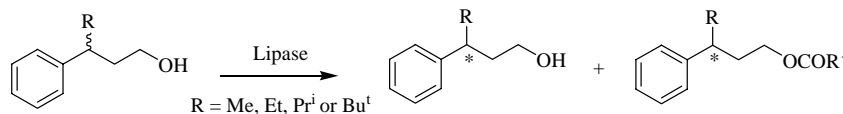
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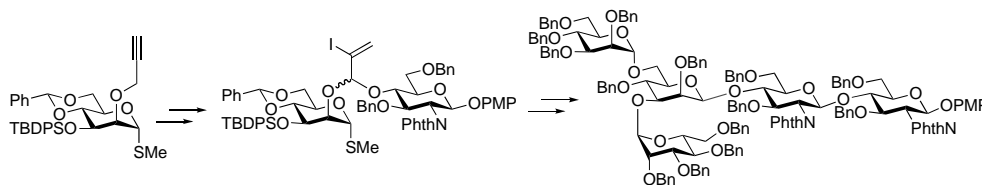
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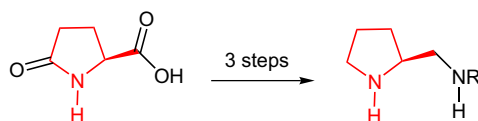
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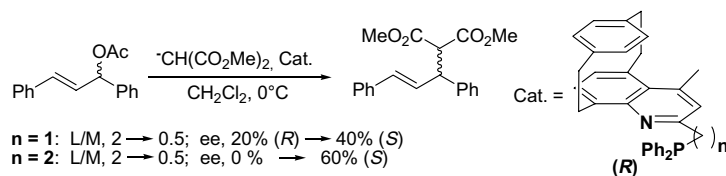
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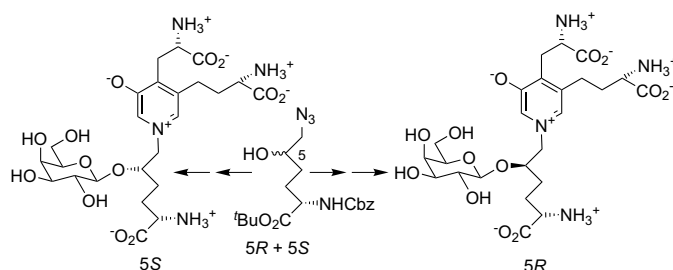


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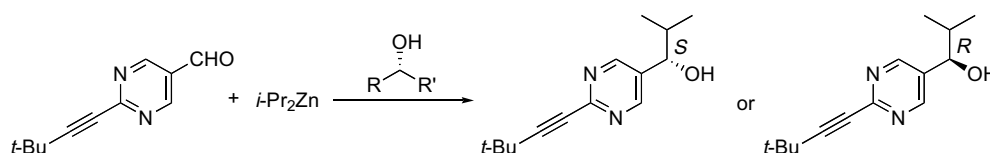
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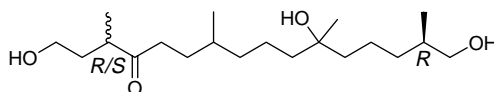
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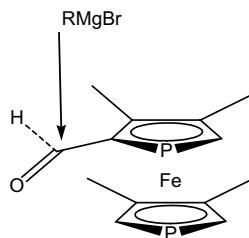
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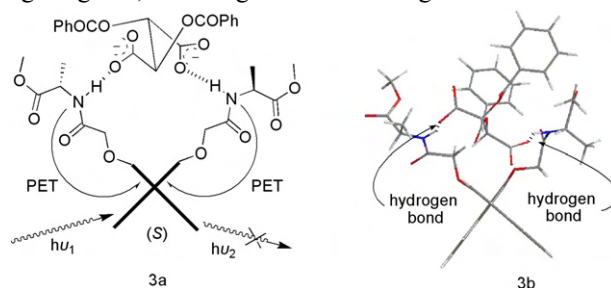
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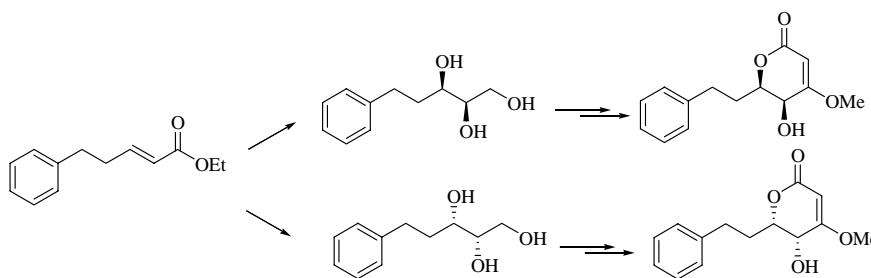
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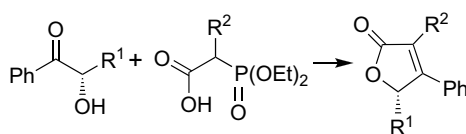
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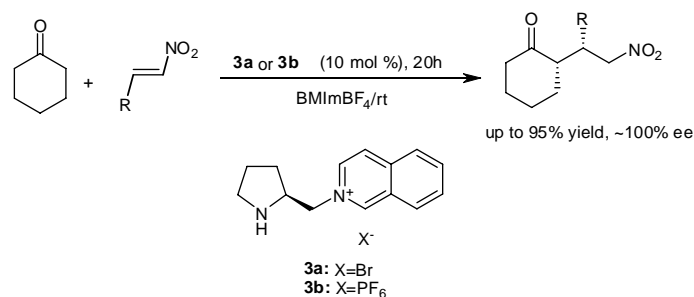

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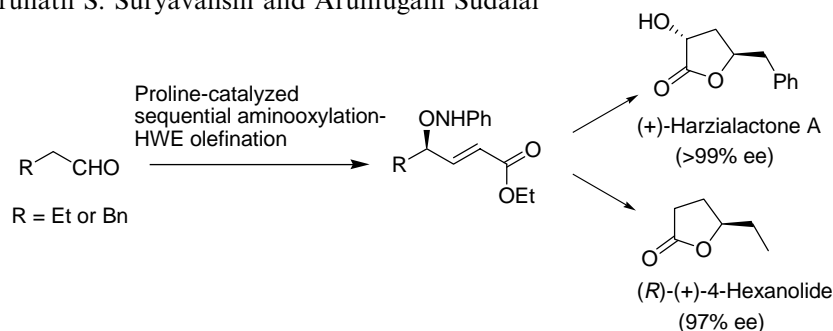
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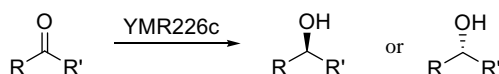
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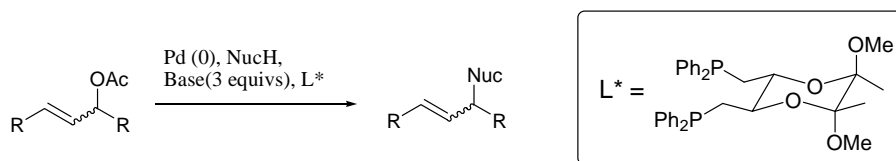
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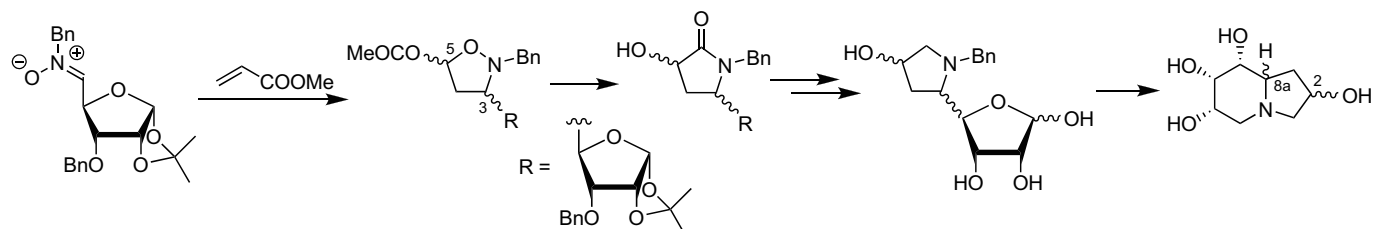
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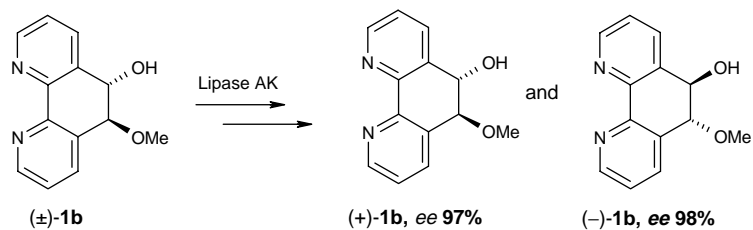
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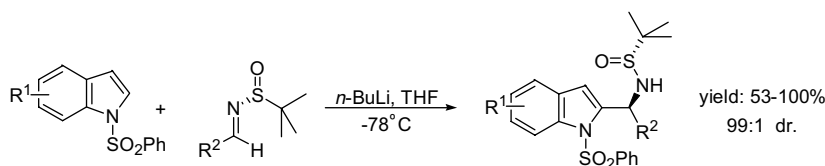
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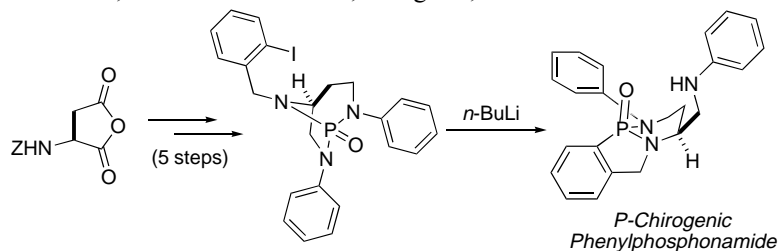
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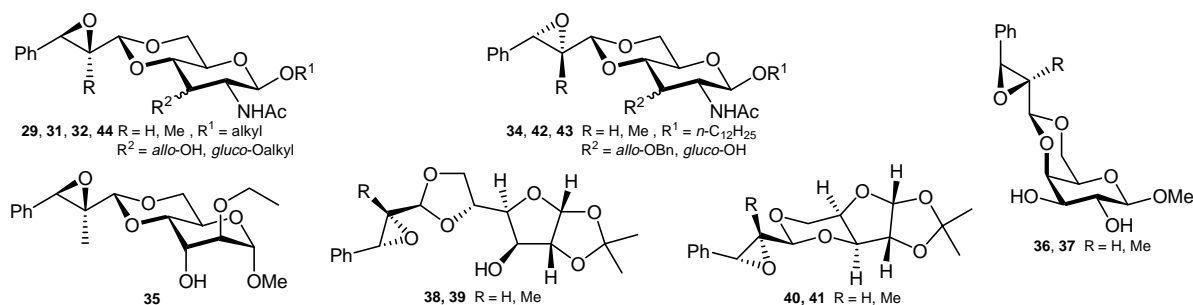


We succeeded in the synthesis of novel *P*-stereogenic phenylphosphonamides, which could be utilized as chiral Lewis basic catalysts for asymmetric allylation of benzaldehyde using allyltrichlorosilane.

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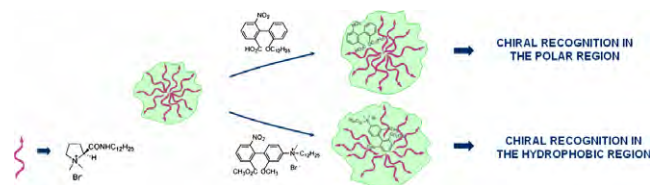
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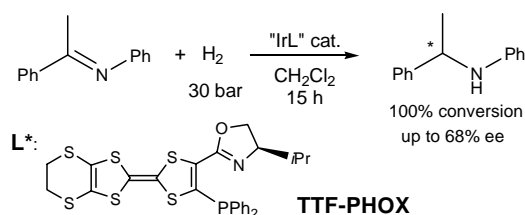
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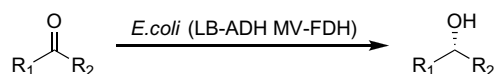
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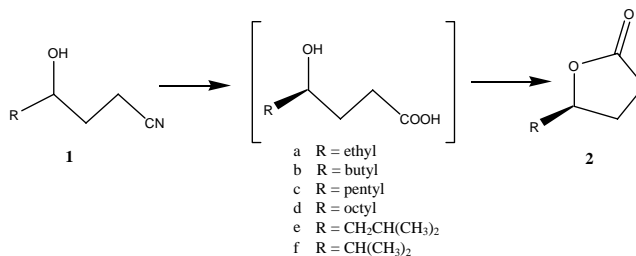
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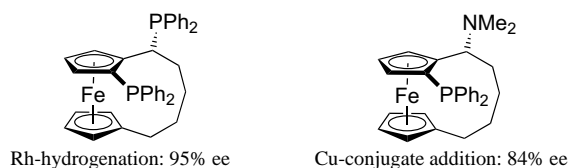
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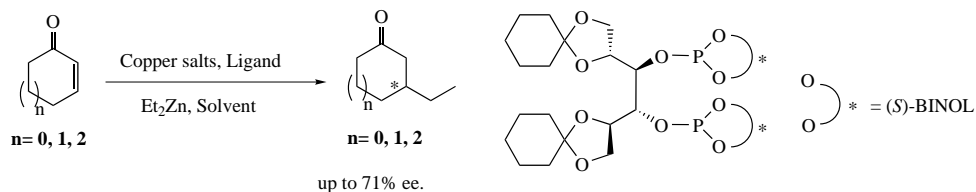
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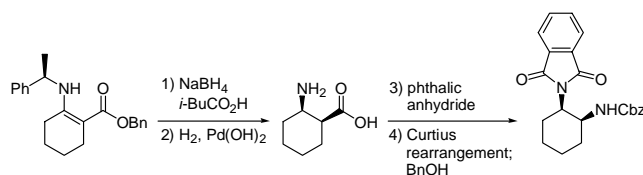
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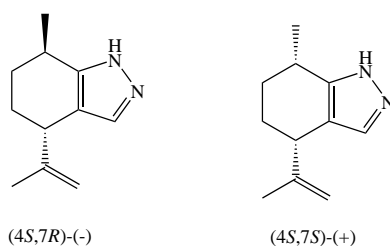
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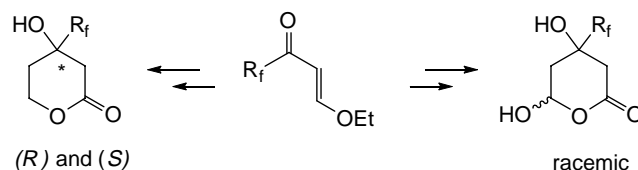
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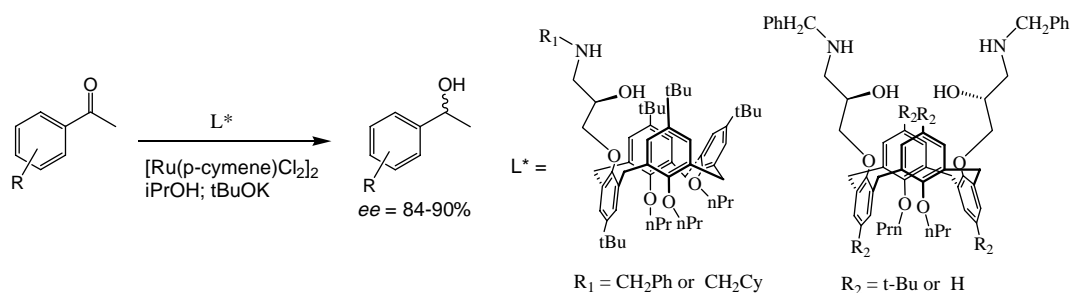
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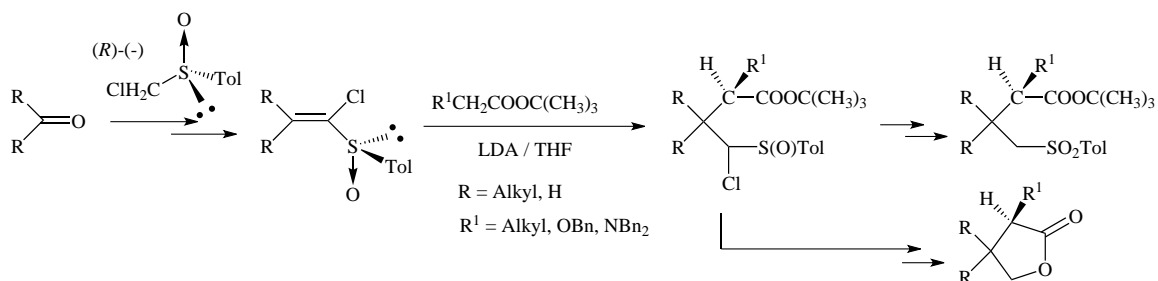
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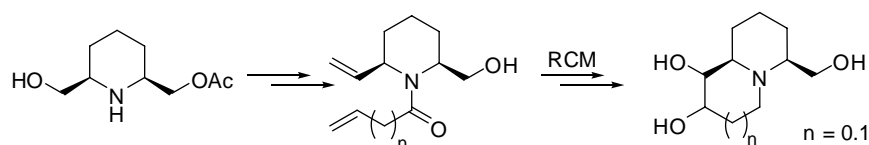
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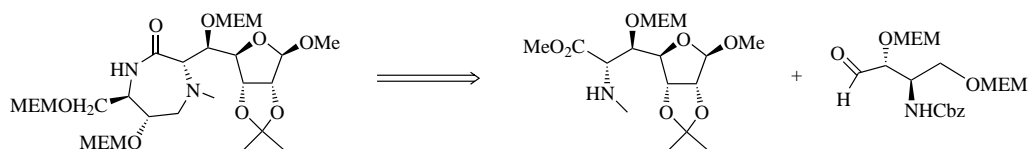
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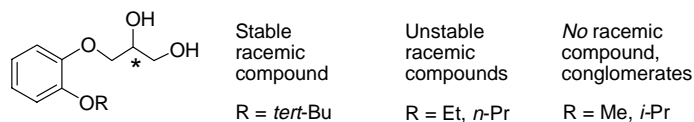
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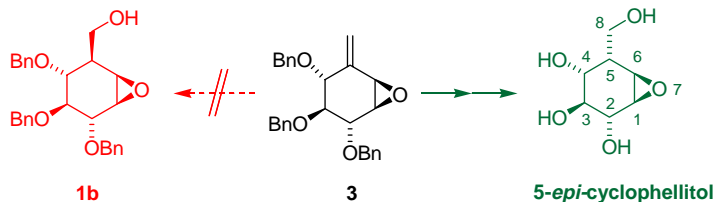
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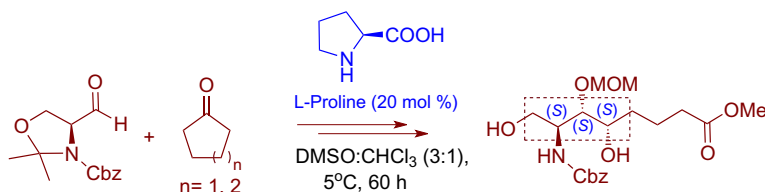
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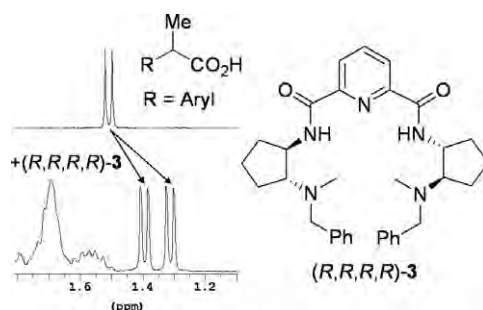
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Indresh Kumar and C. V. Rode*



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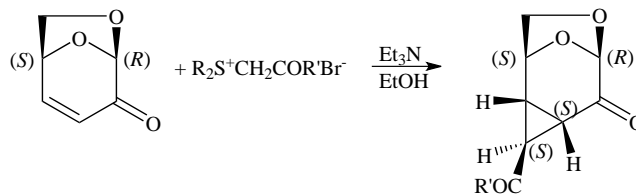
Carmen Peña, Javier González-Sabín, Ignacio Alfonso,* Francisca Rebolledo* and Vicente Gotor*



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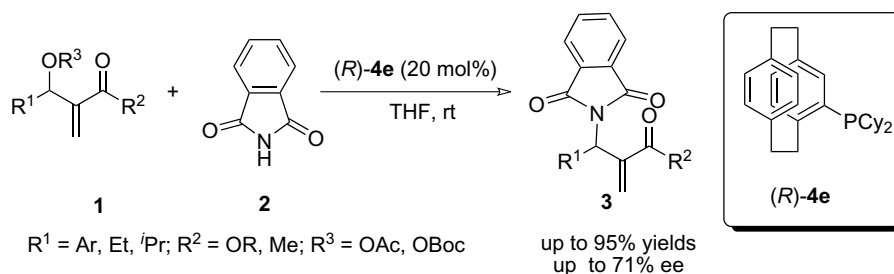
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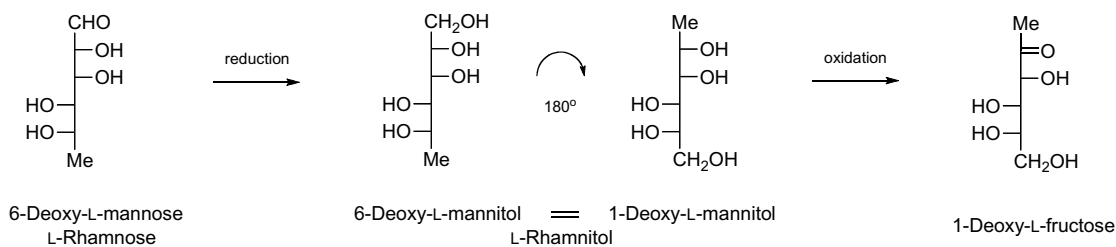
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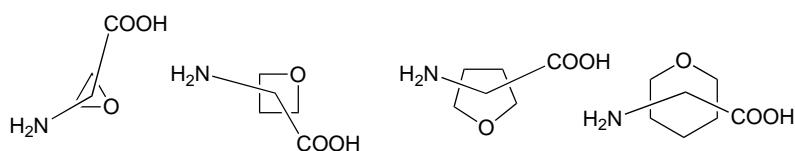
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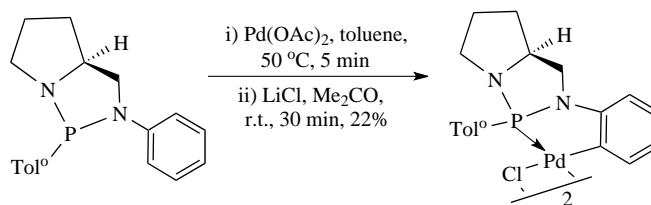


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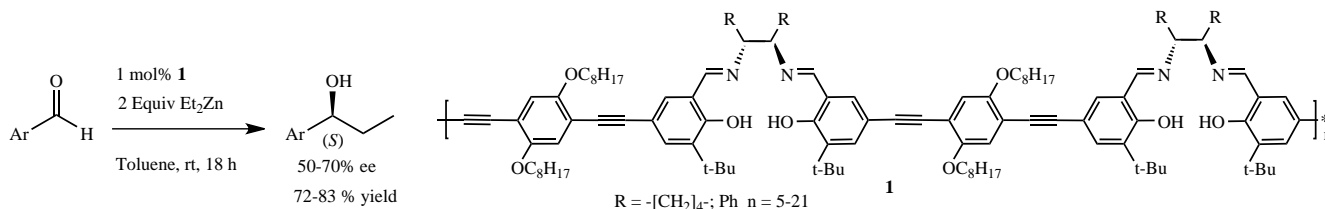
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Chiral linear polymers bonded alternatively with salen and 1,4-dialkoxy-2,6-diethynylbenzene: synthesis and application to diethylzinc addition to aldehydes

pp 2016–2020

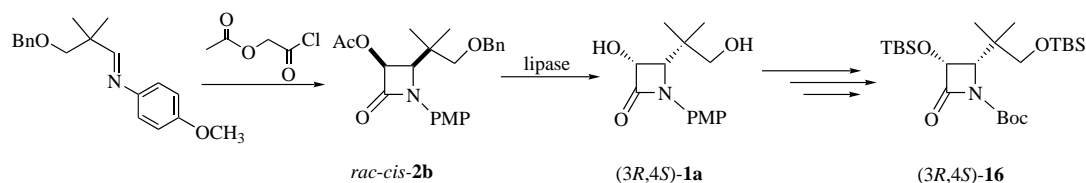
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Approaches to the synthesis of enantiopure α -hydroxy- β -lactams with functionalized side chains

pp 2021–2029

Yan Yang, Jianmei Wang and Margaret Kayser*

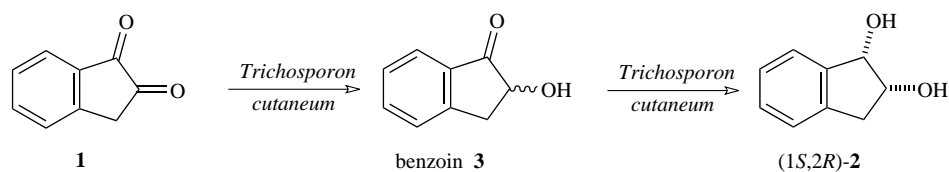


We report a synthesis of pharmaceutically important α -hydroxy (or *t*-butyldimethylsilyl protected α -hydroxy)- β -lactams with functionalized chains in position 4 of the azetidinone ring. A convenient and high-yielding route to these compounds was developed and optimized. Preparation and characterization of several new enantiopure title compounds with various functional groups are discussed.

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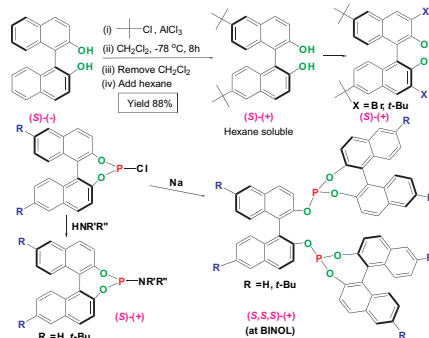
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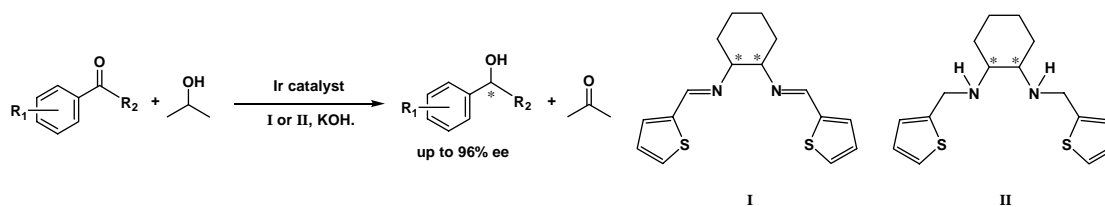
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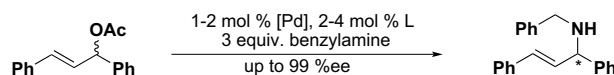
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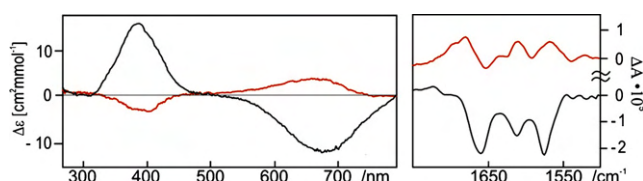
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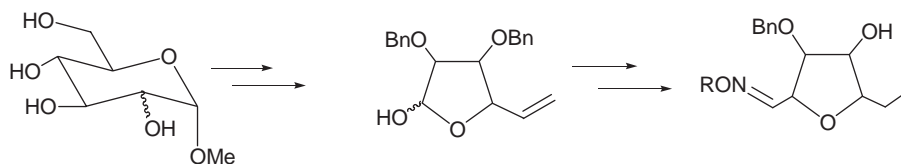


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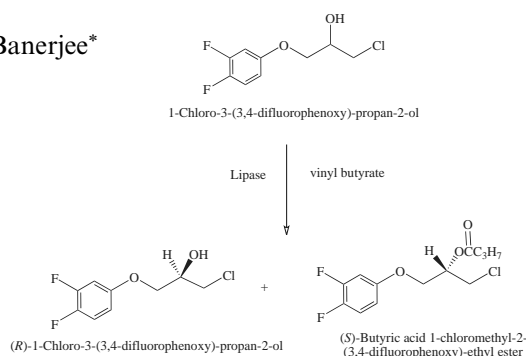
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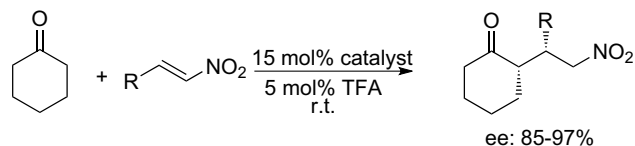
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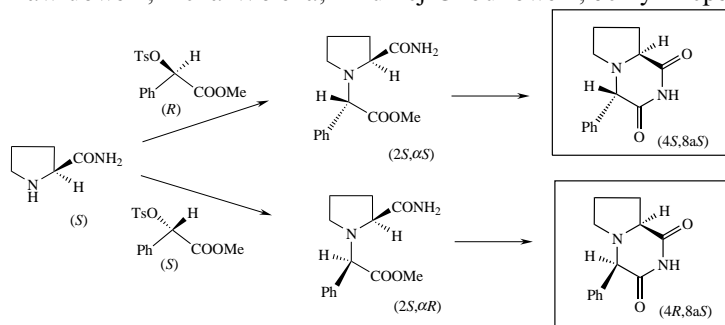


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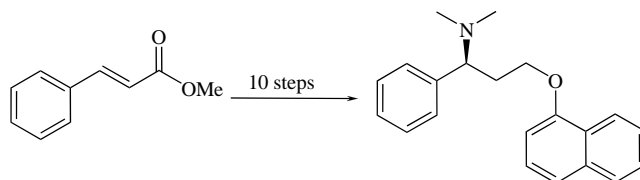
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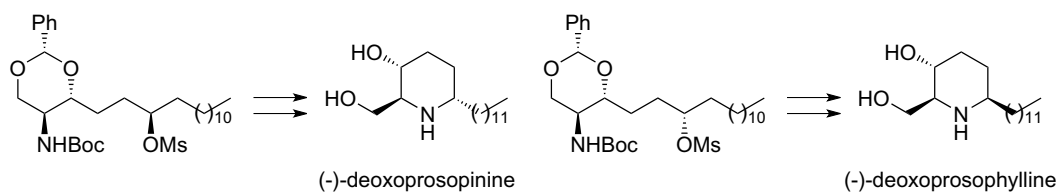
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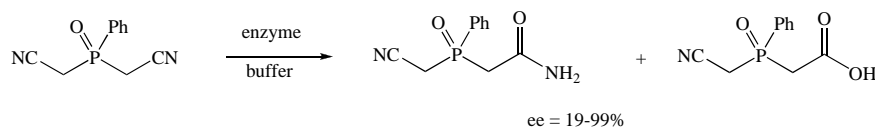
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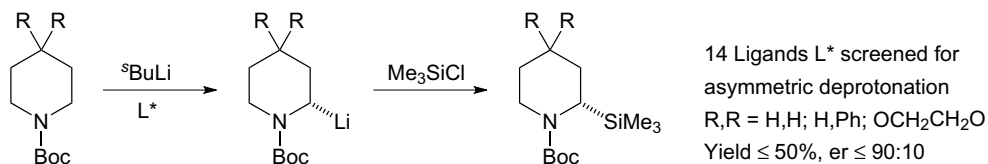
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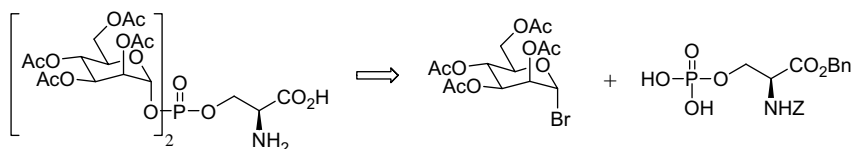
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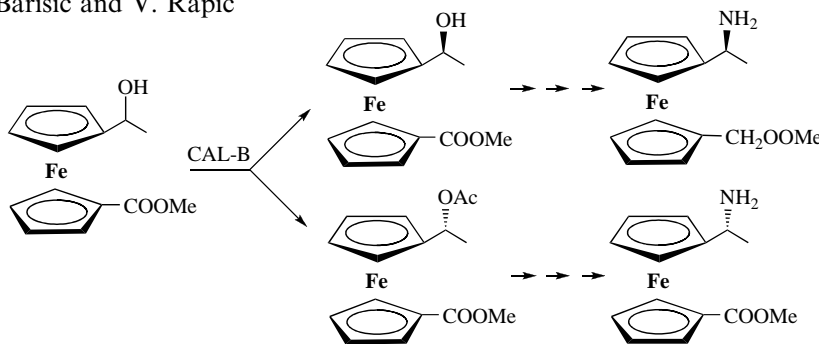
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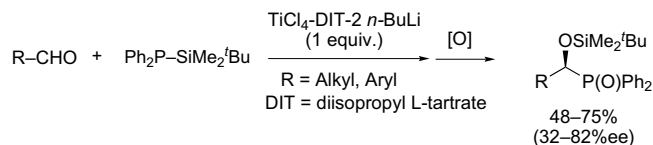


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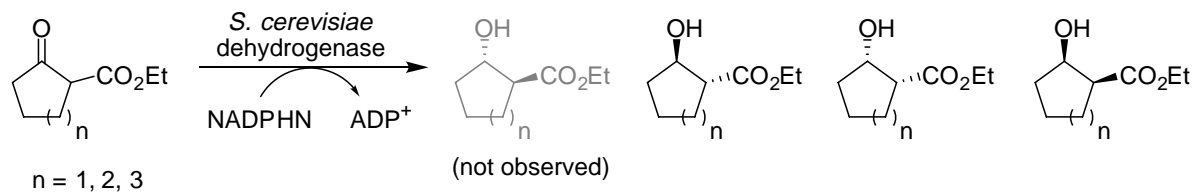
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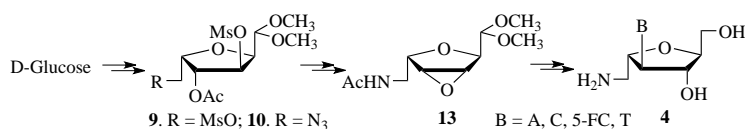
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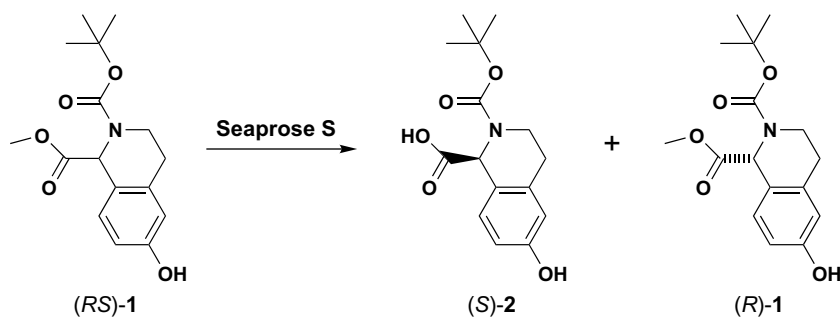
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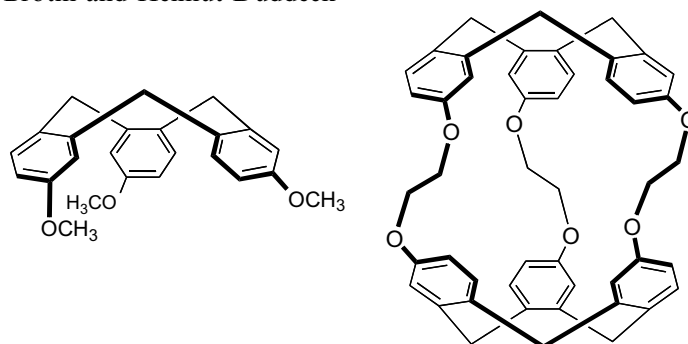
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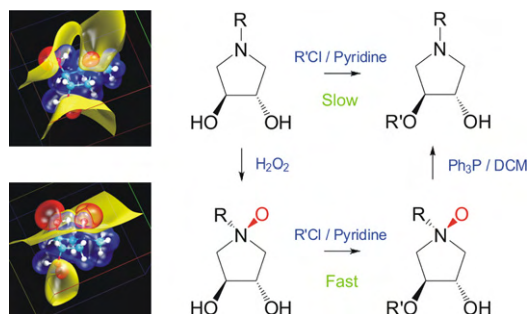
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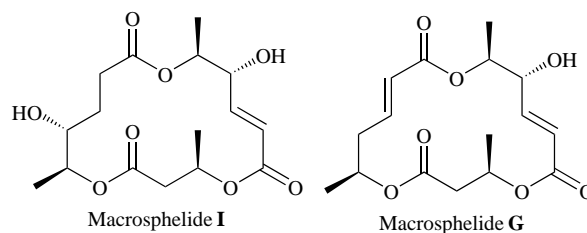
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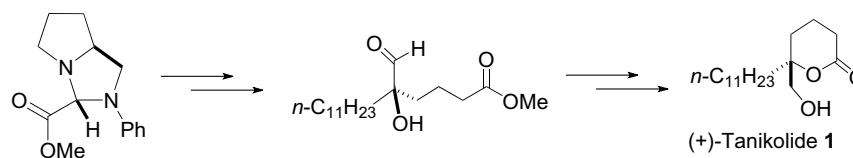


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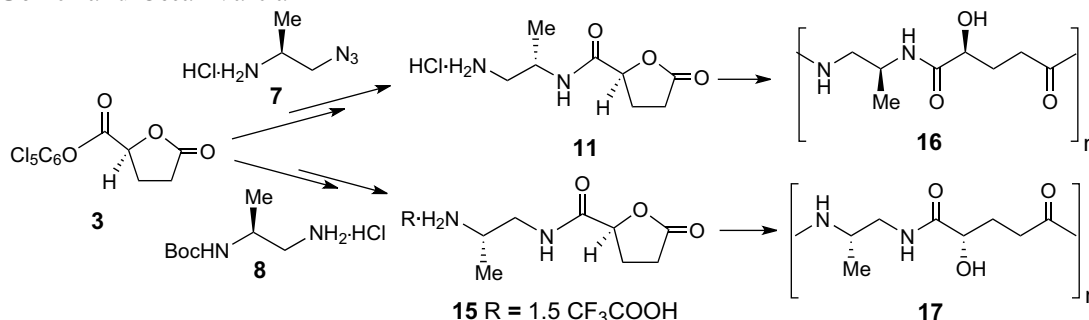
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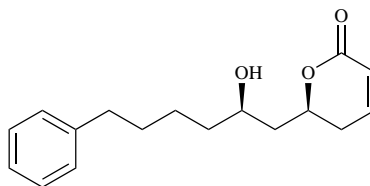


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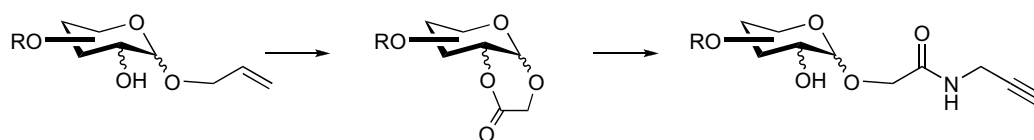
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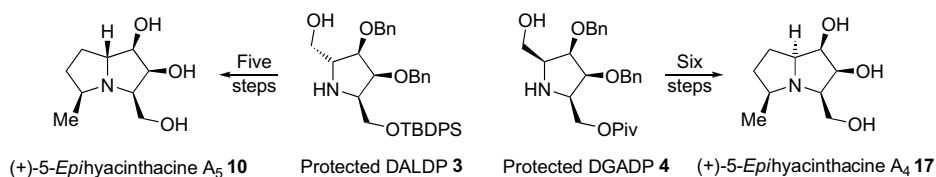
Arkadiusz Listkowski, Pisethnaline Ing, Rouba Cheaib, Stéphane Chambert, Alain Doutheau and Yves Queneau*



α , β , gluco, galacto, R=Ac or Bn

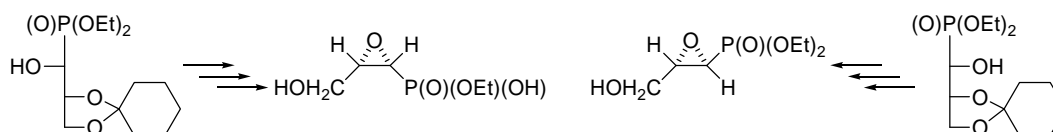
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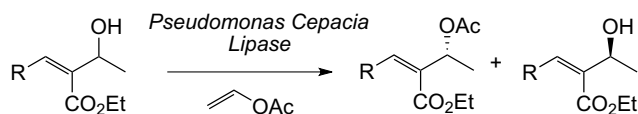
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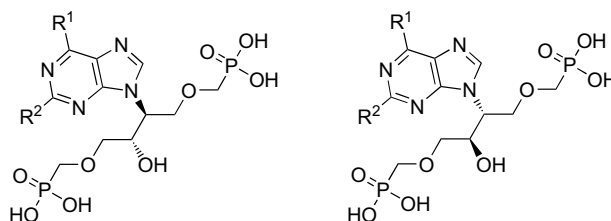
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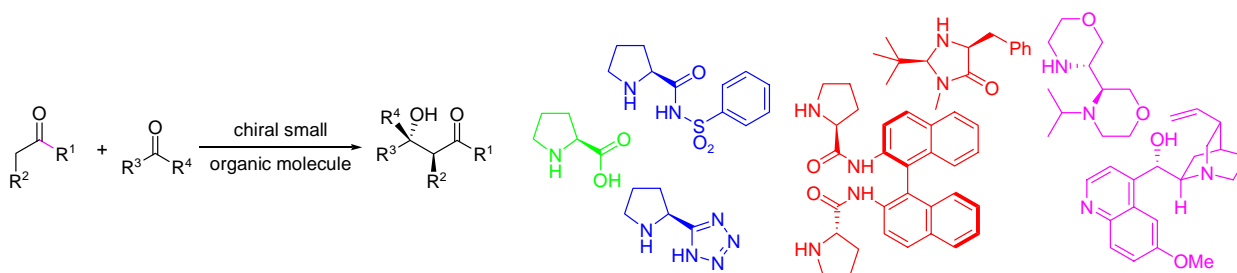
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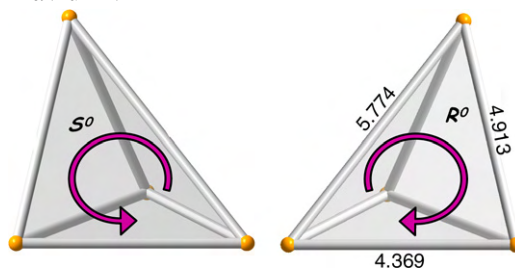


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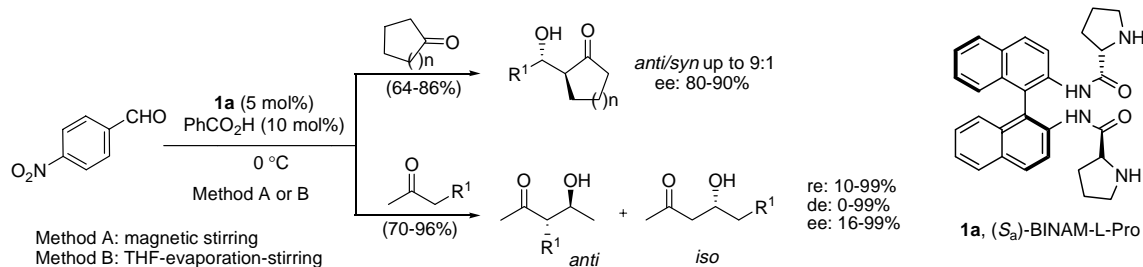


What is the handedness of a chiral AB₄? A set of rules to answer that question—which has not been addressed so far—is proposed, and applied to many molecules, to quartz, and to a computed large random population of chiral AB₄ structures.

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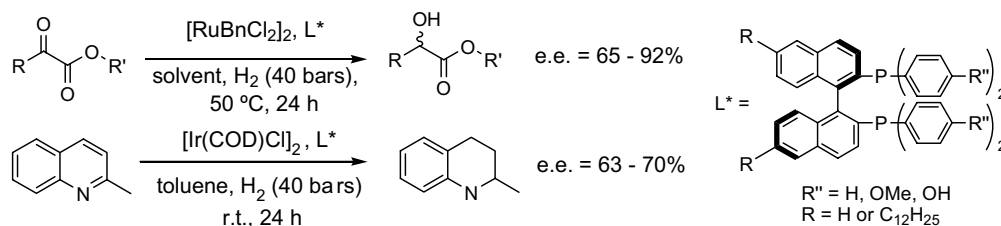
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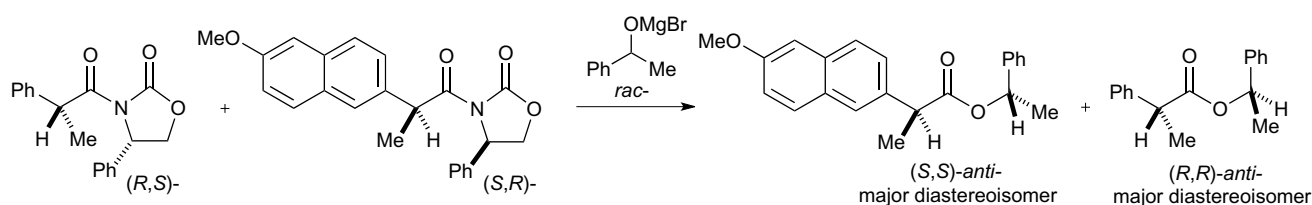
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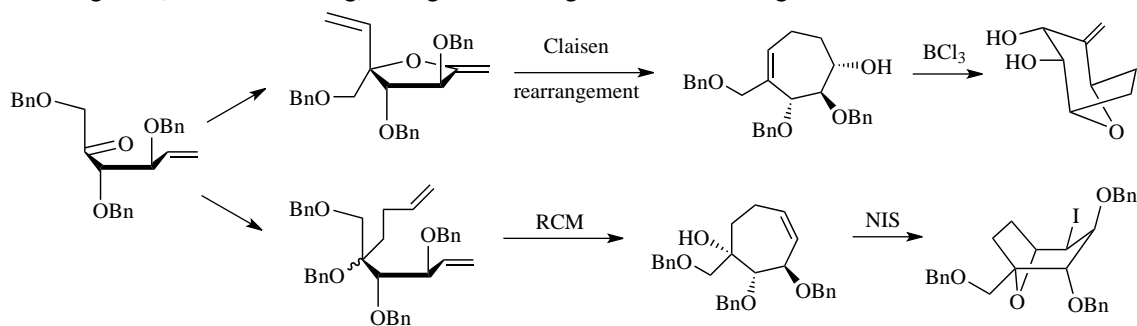
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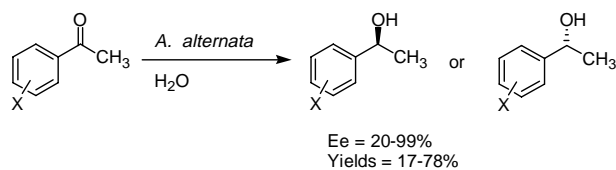
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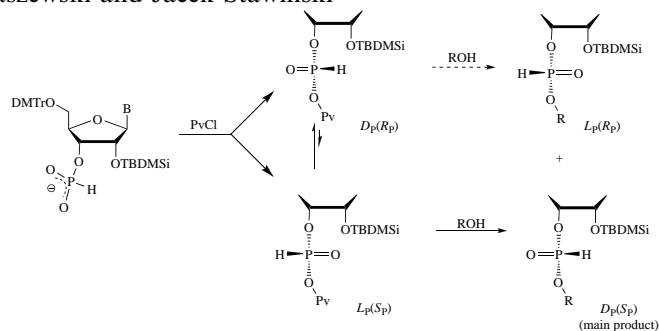
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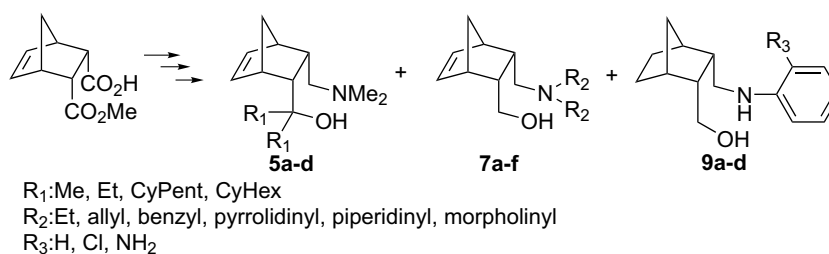


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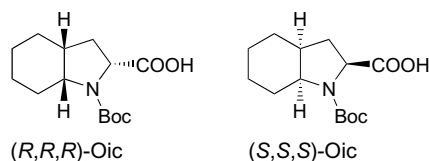
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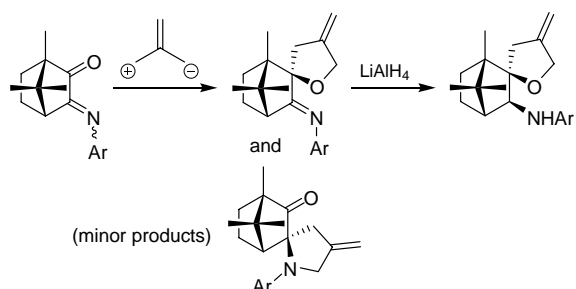
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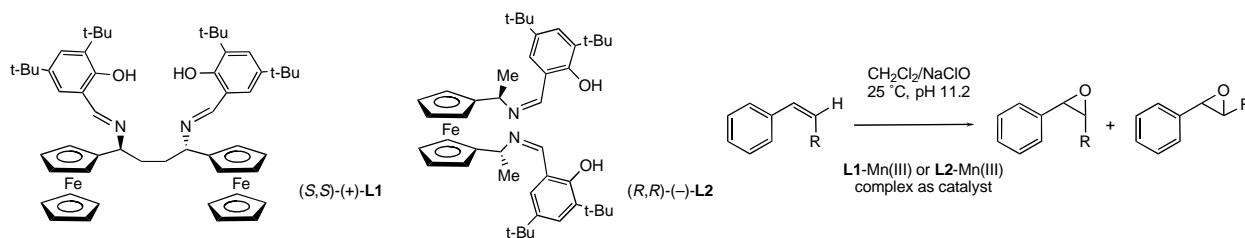
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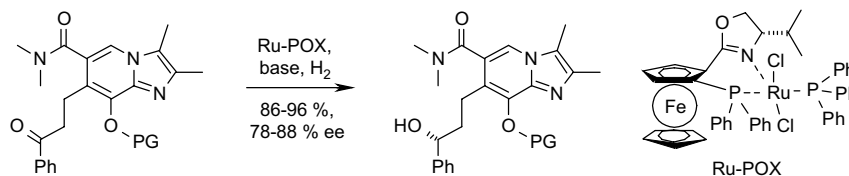
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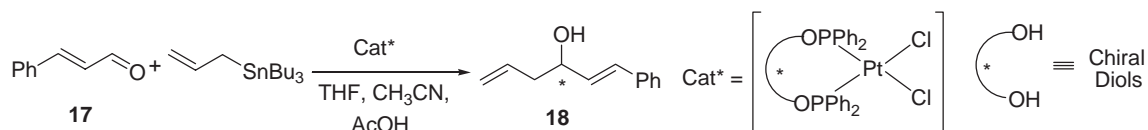
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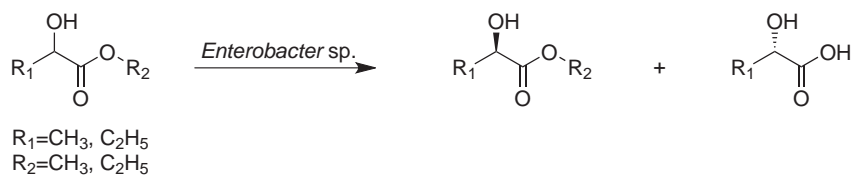
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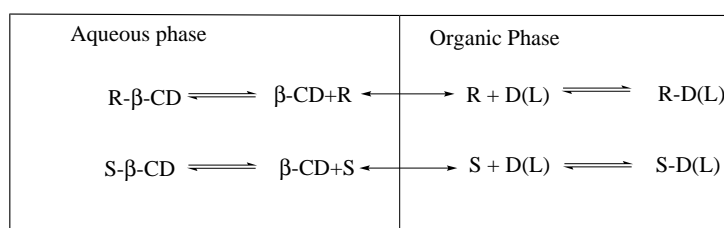
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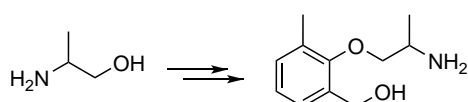
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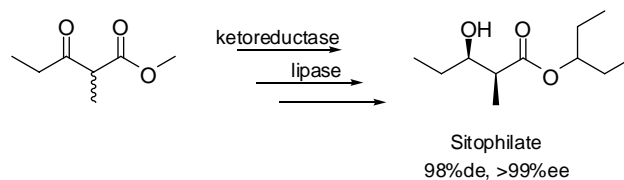
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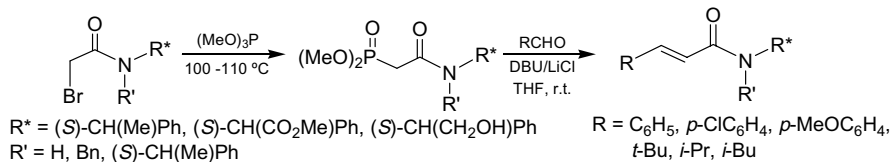
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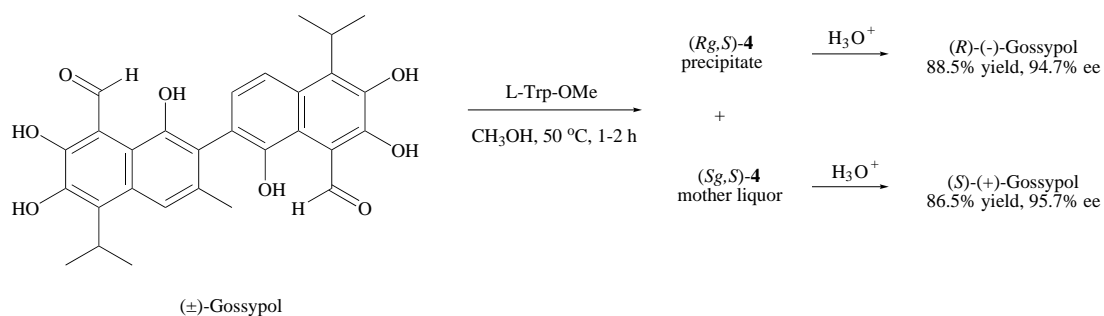
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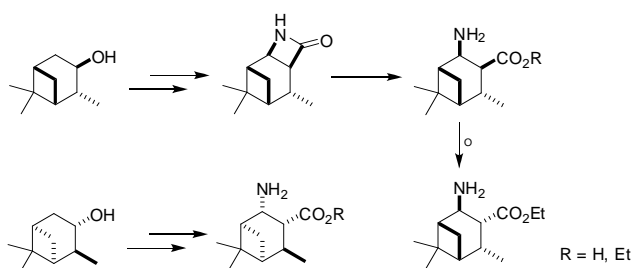
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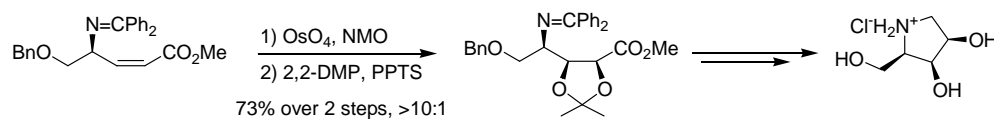
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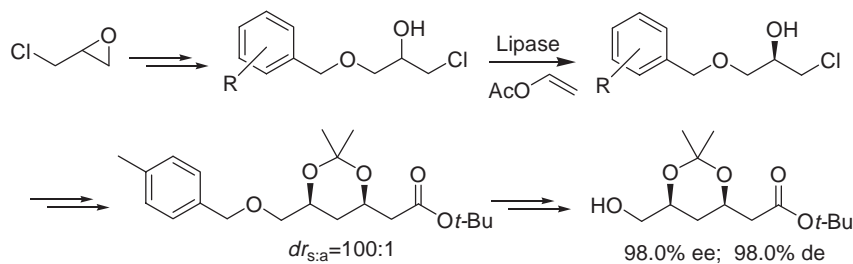
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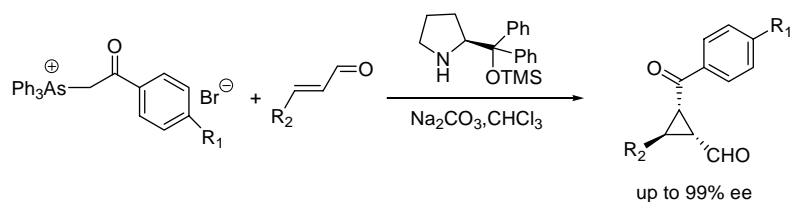
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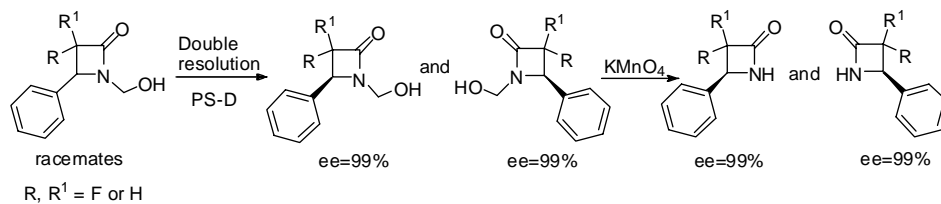


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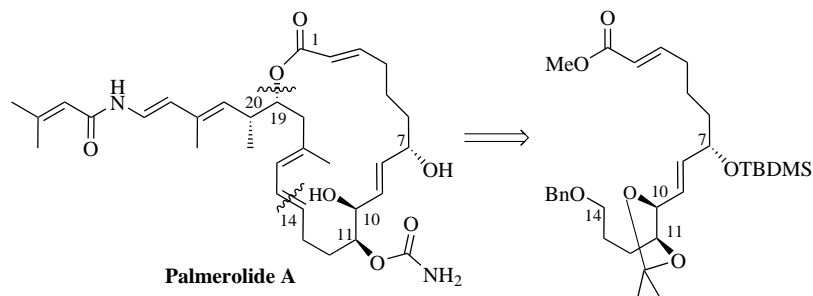


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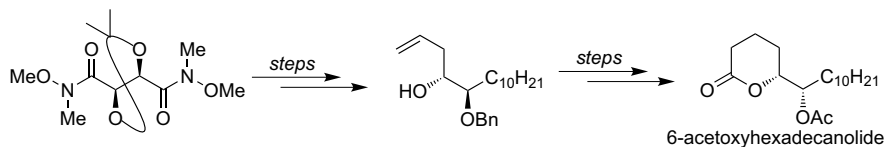


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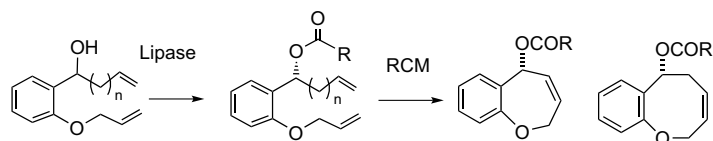
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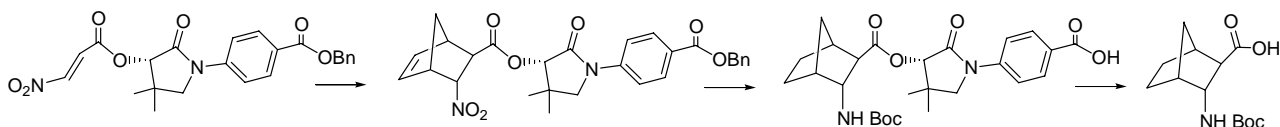
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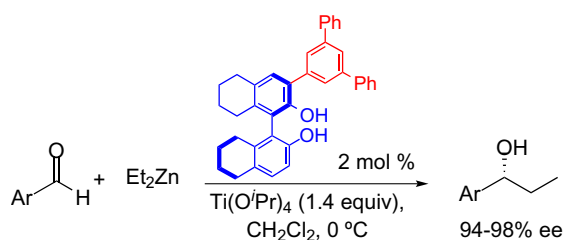
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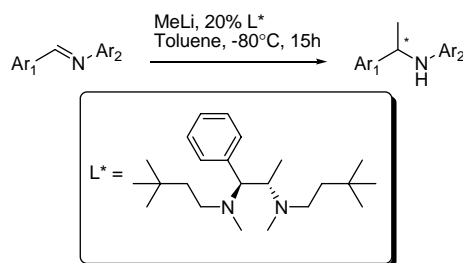
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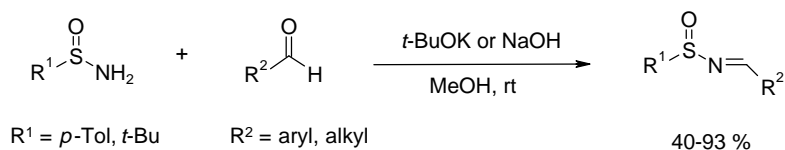
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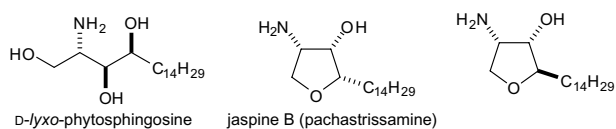
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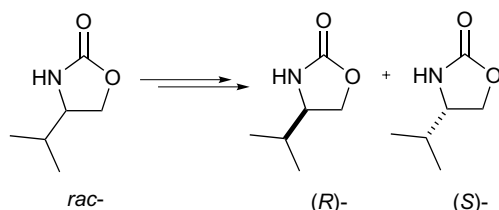


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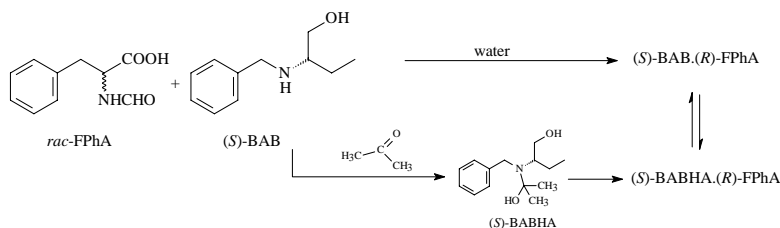
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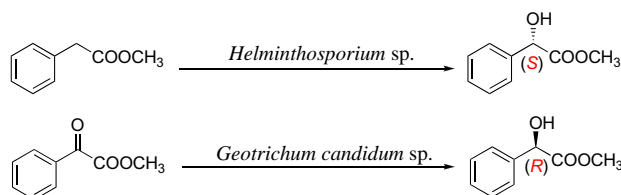


Solvent	Time of crystallization	ee %	F
water	12 days	27	0.18
acetone	15 hours	83	0.73
acetone	3 hours	49	0.4

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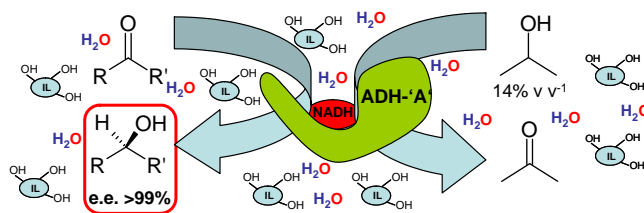
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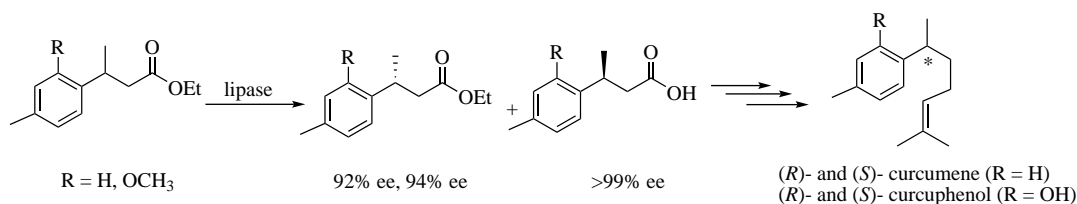
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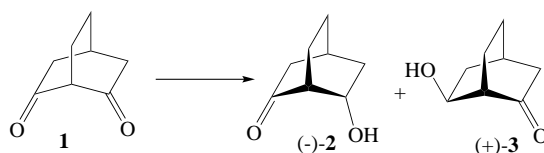
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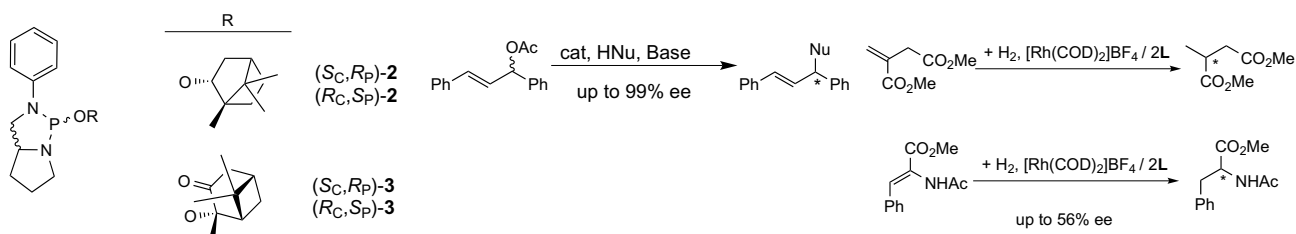
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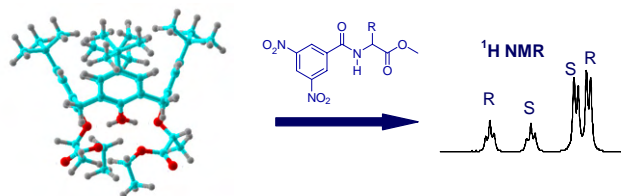


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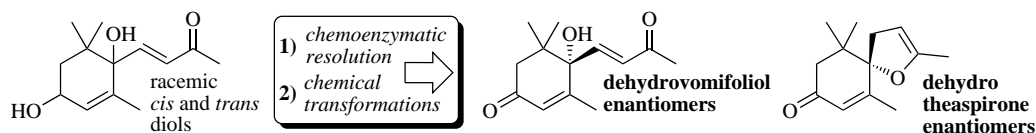
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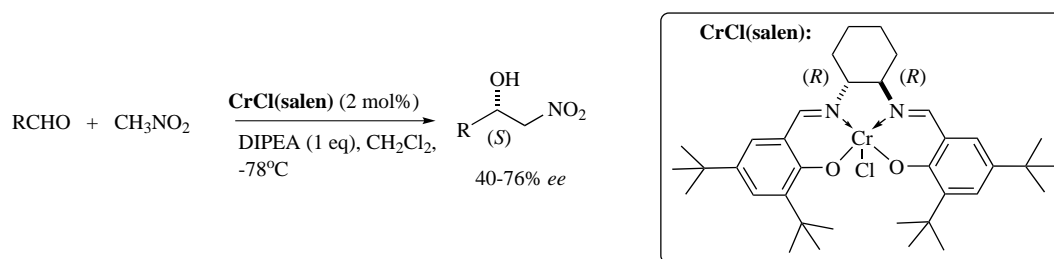
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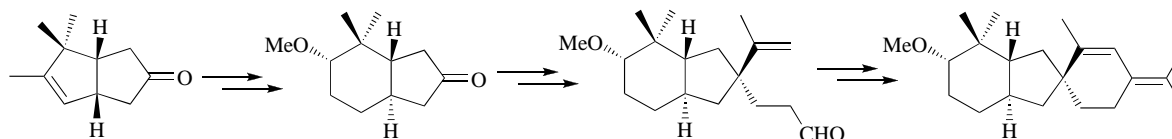
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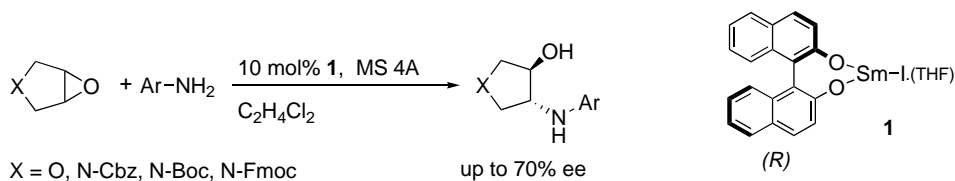
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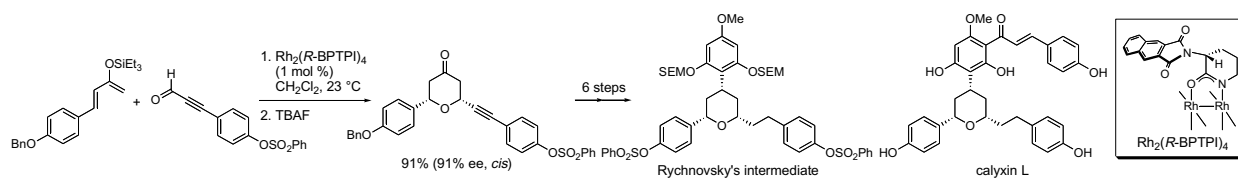
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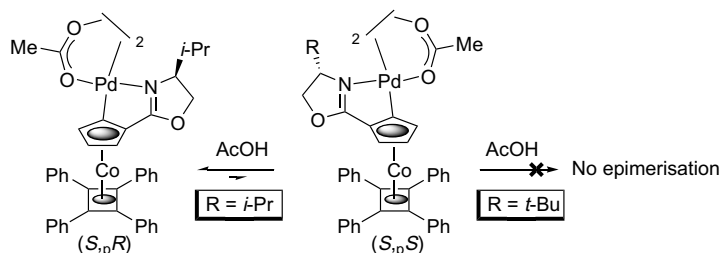
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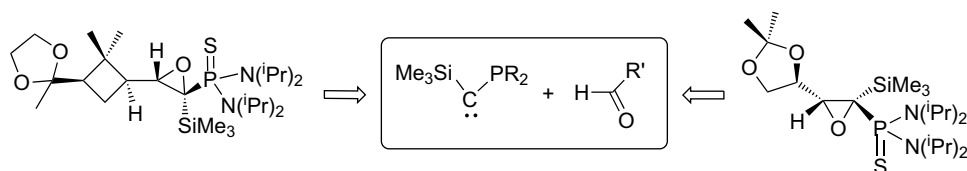
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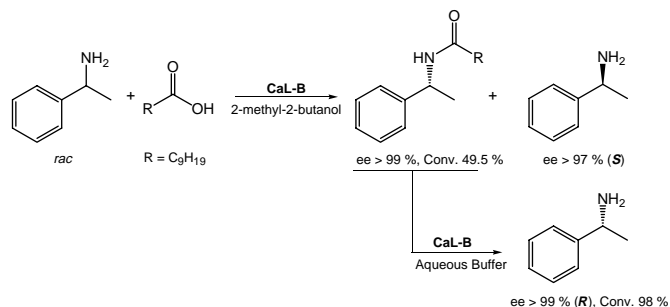


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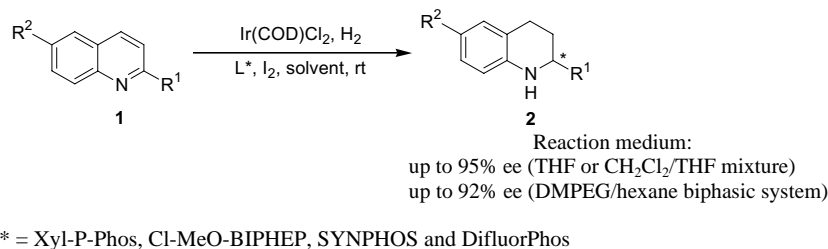
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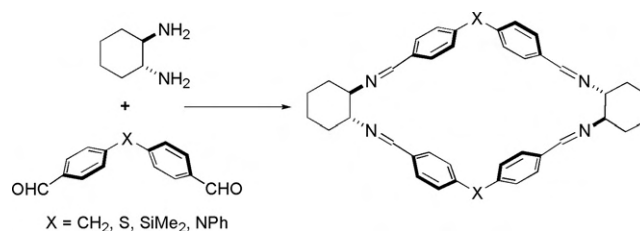
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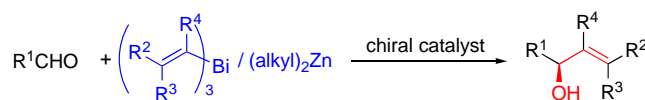
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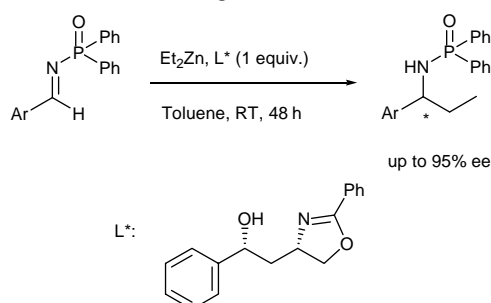
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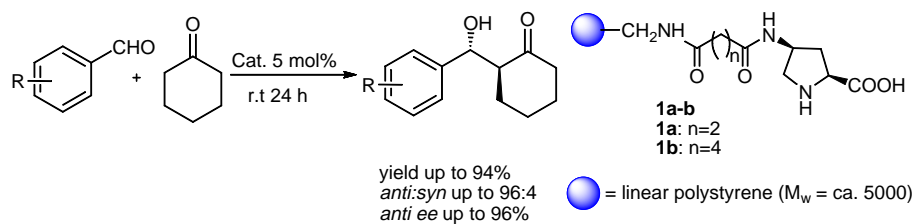
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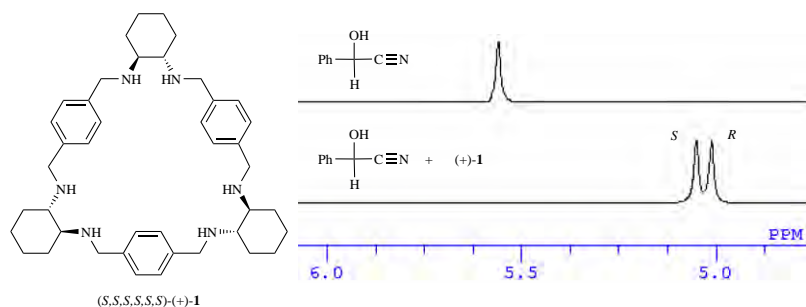
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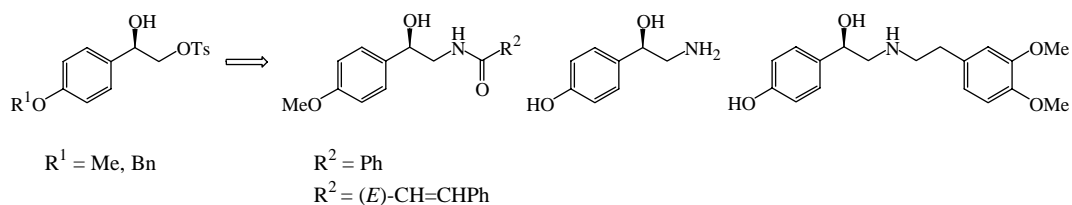
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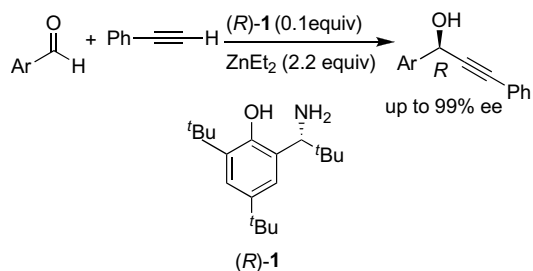
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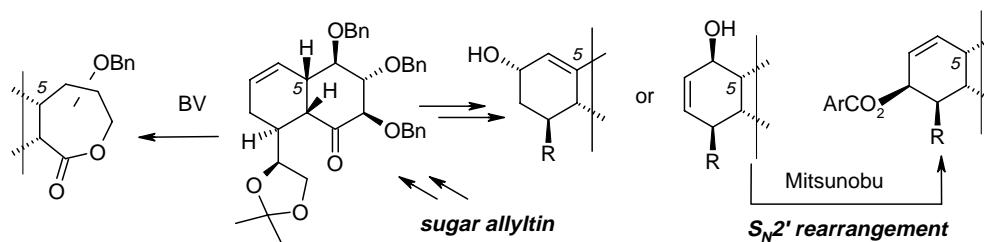


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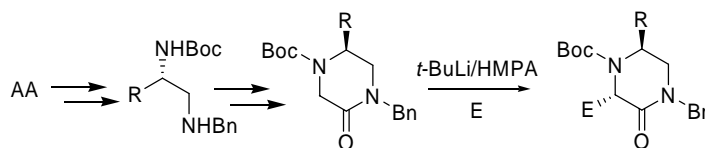


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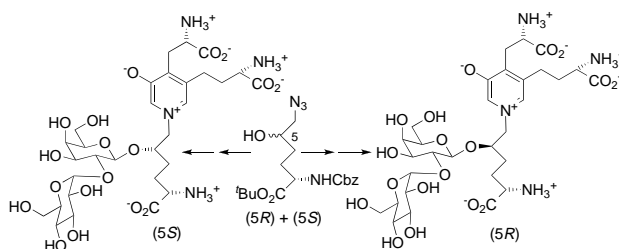
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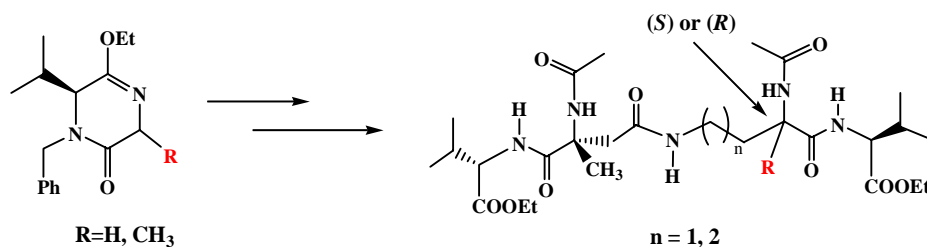
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Pietro Allevi,* Eti A. Femia, Elios Giannini and Mario Anastasia



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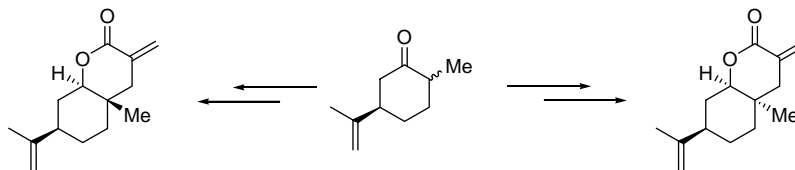
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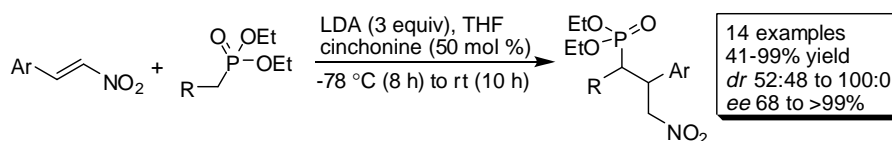
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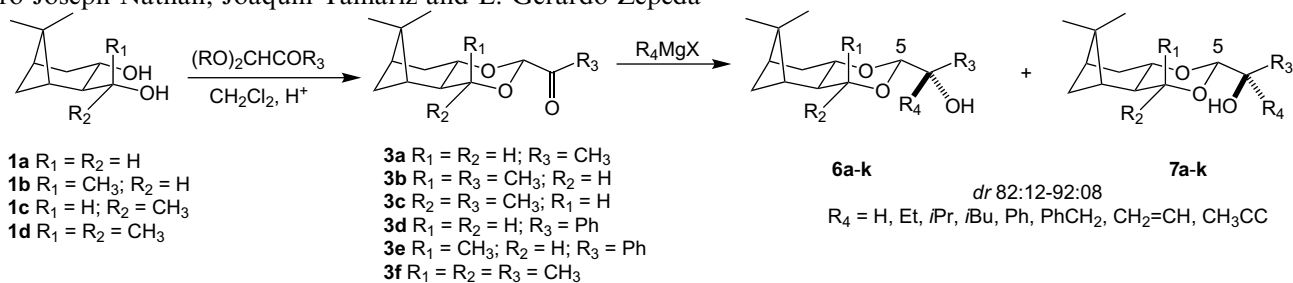
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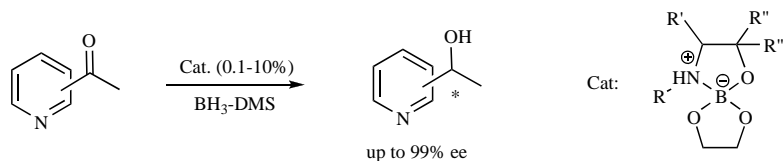
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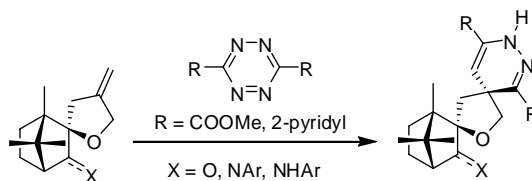
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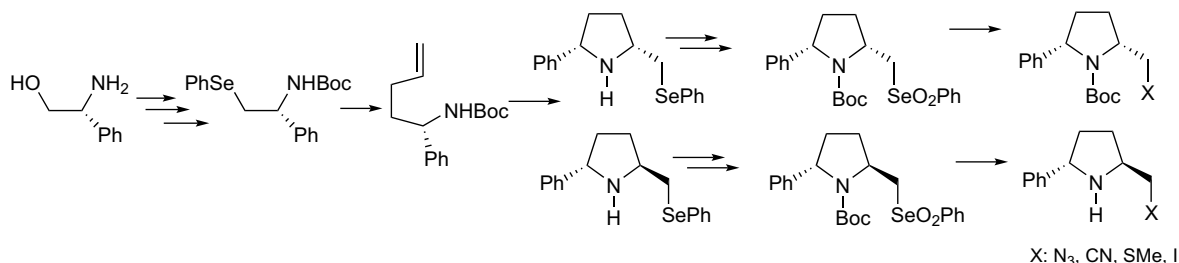
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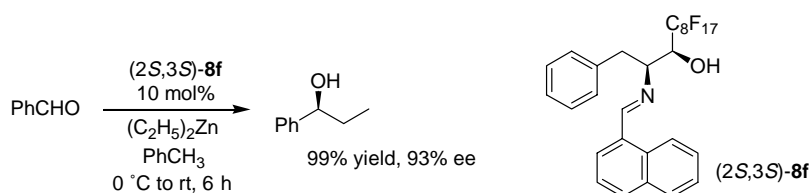
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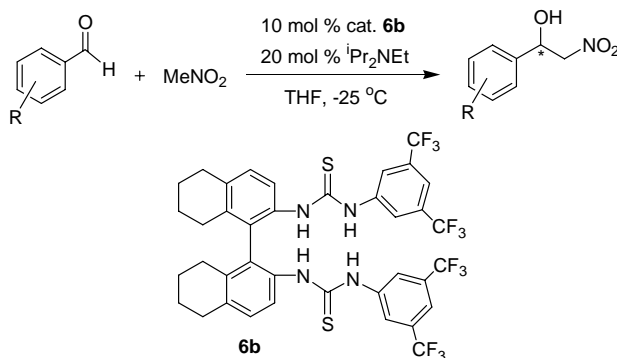
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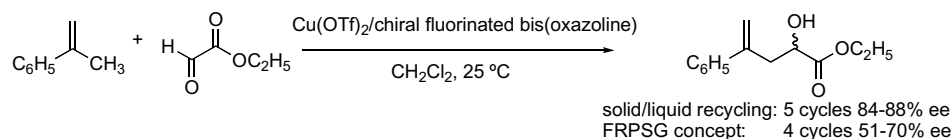
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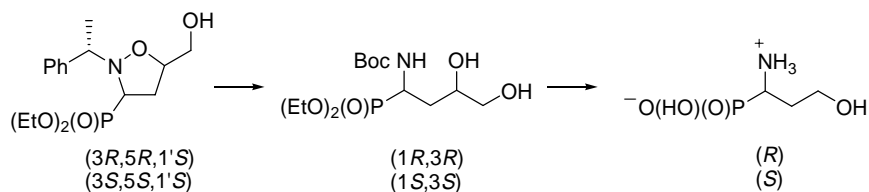
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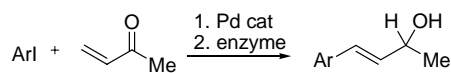
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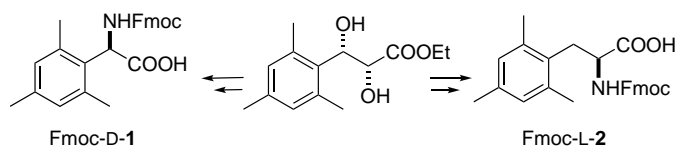
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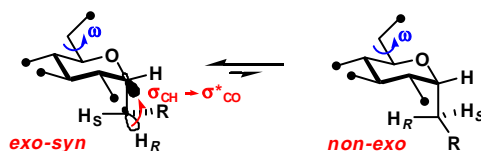
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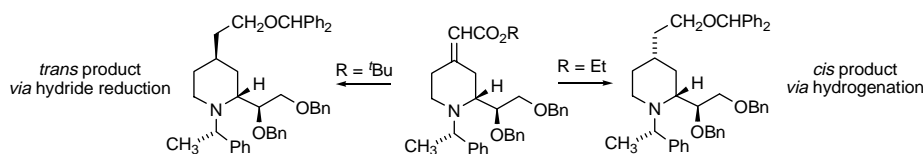
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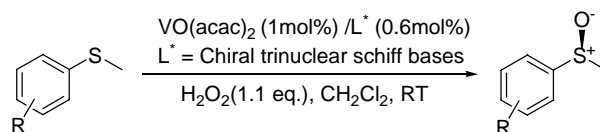


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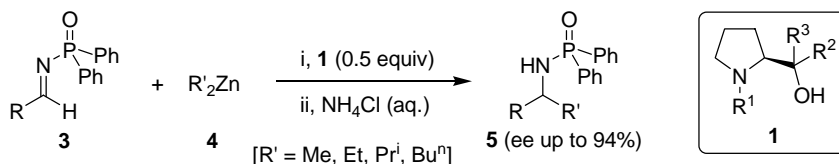
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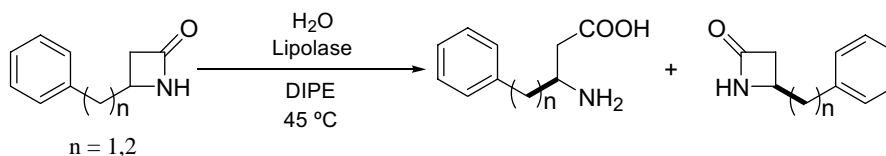
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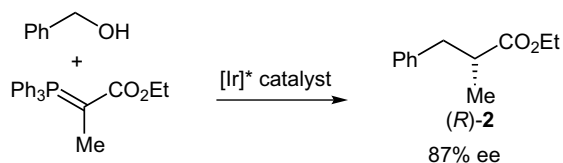
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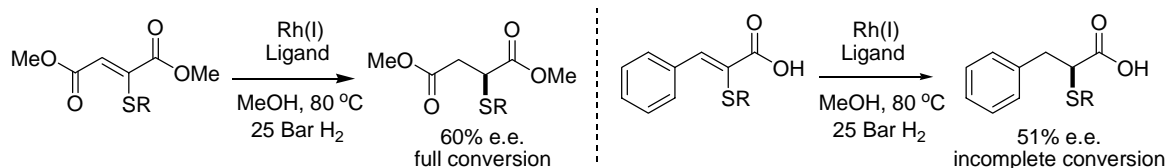


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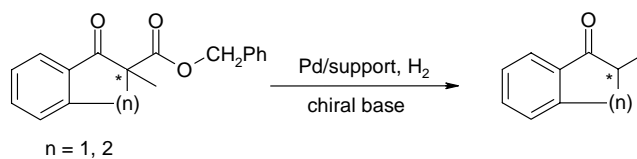
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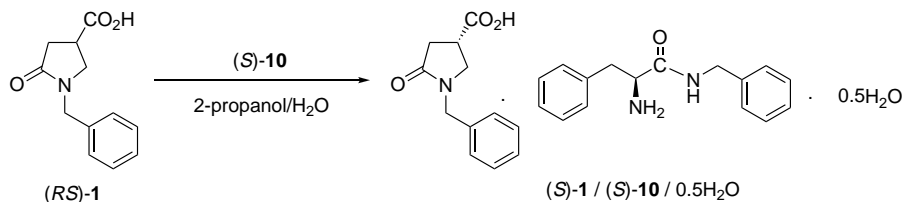
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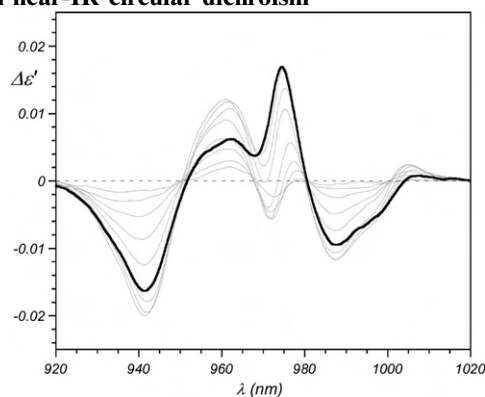
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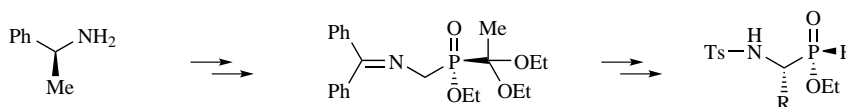
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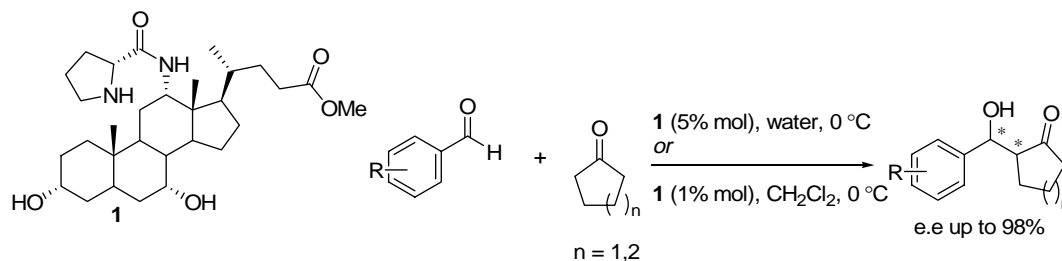
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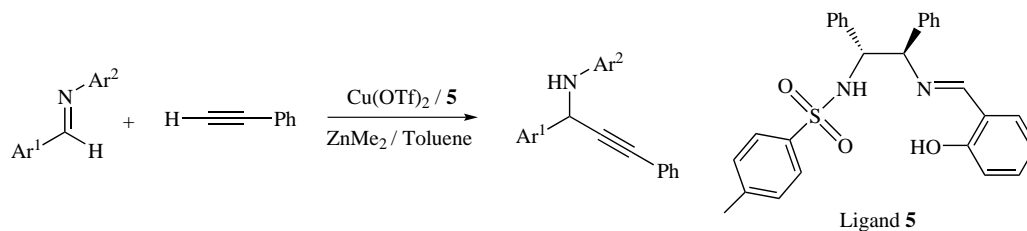
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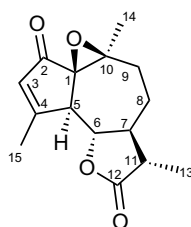


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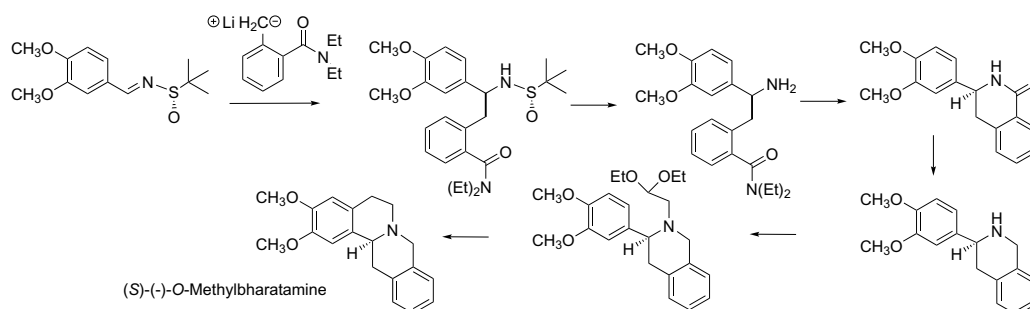
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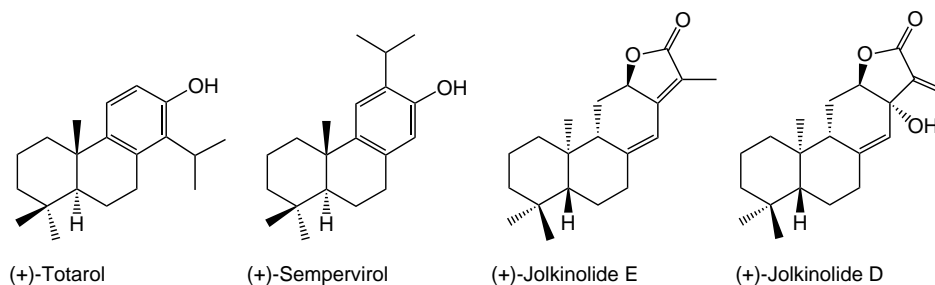
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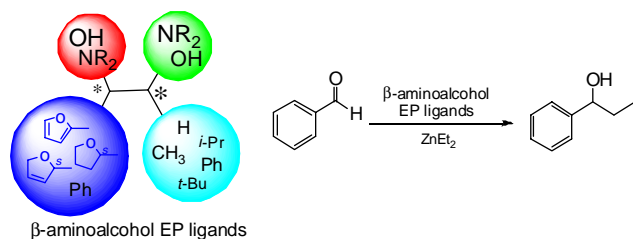
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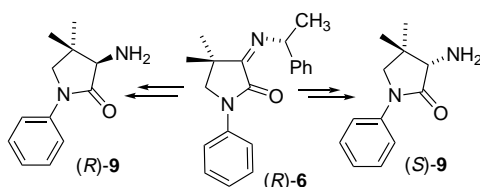
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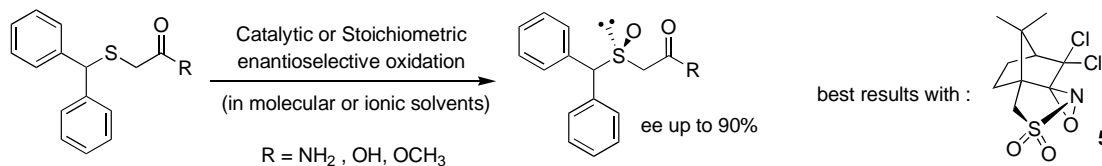
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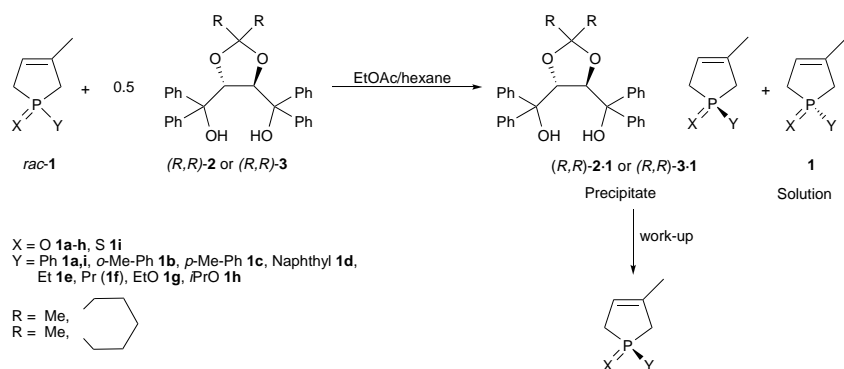
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