

Group name	Organic Synthesis group
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Group Homepage	
Main Subjects	<ol style="list-style-type: none"> Enzymatic resolution of axial chiral compounds, and the application for catalytic reaction. Synthesis of new functional compounds (porphline and organic conductive compound) . Synthetic study of new route of hydroxyl stearic acid derivatives.

Content

Our group pursues to synthesize of useful new compounds which have functionality and chirality , and to develop of new reactions. Three subjects are focuses.

1. Enzymatic resolution of axial chiral compounds(segphos derivatives, pyridyl-naphthyl compounds, and binol compounds so on) are investigating using lipase reaction (hydrolysis, transesterification, and amidation). After resolution of the axial compounds, it have applied to use as ligand for catalytic reactions .

2. New functional porphrin compounds which attached amino group or pyridine ring are synthesized. Many new compounds are investigated to applied as ligand for catalytic reaction. Furthermore, new functional compounds which have electron conductivity incorporating ferrocene ring are synthesized to investigate the electrochemical properties.

3. New synthetic routs of 12-hydroxy-stearic acid derivative are investigate , and the same absolute configuration of natural 12-hydroxy stearic acid are pursuing using chiral auxilasy reagent .

figure 1 Example of synthesized compounds

