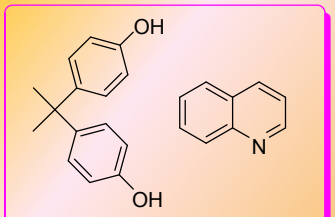
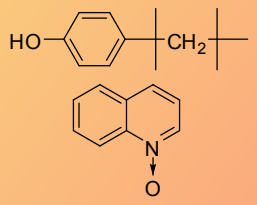
Development of Novel Organic Reaction and Resolution of Chiral Compounds

Associate Professor Bunpei Hatano

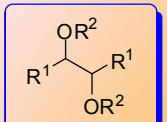
Current focuses



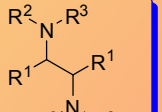
inclusion complex of bisphenol A



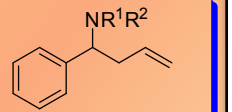
inclusion complex of octylphenol



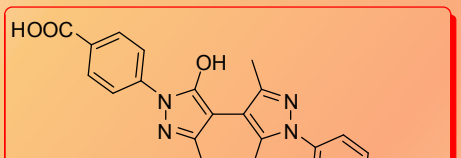
1,2-diol



1,2-diamine



homo-allylamine



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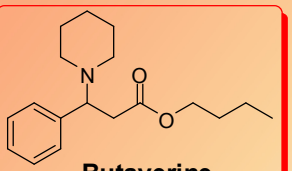
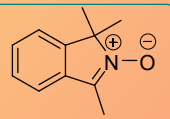
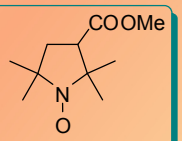


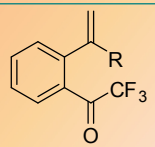
Butaverine



TMINO



MC-PROXYL



o-vinyl-fluoroacetophenone

Content:

1. Resolution of biological actives and chiral compounds based on host-guest inclusion chemistry
2. Development of C-C bond formation triggered by TMSCl
3. Synthesis and properties of spin trapping reagents and labels

Our research group pursues useful new reactivity and general methods for powerful and reliable chemical transformation, and effective resolutions of biological active compounds and chiral ligands using inclusion chemistry. Our current focuses are on carbon-carbon bond formation triggered by chlorosilanes, synthesis of spin trapping reagents based on isoindole structure, and recovery of endocrine disrupting compounds and resolution of chiral ligands using host-guest inclusion chemistry.

Yamagata University Graduate School of Science and Engineering
Research Interest : Organic Synthesis, Organometallics, Inclusion Chemistry

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