Part I: α,β-dehydrogenation of carbonyl compounds via selenium reagents elimination.

In the first part, selenium conducted elimination reaction of thioesters was discussed. This is a two-step one-pot reaction, which firstly gives an alpha selenium substitute of thioesters, then oxidize the selenium intermediate gives an elimination reaction, which lead to the α,β-unsaturated thioester as the product.

Part II: Indium catalyzed cyclization reaction of acrylate.

In second part, an In(III)-TMSBr-catalyzed aryldehydronaphthalene derivatives synthesis method is discussed, the indium catalyst makes the aryl alkyne react with two molecules of acrylate and gives an aryldehydronaphthalene derivative as the product.

ZHANG QIUCHI

Date: 29 January 2019
Time: 2.00 PM
Venue: Conference Room, Level 2, SPMS Research and Graduate Studies Office
Supervisor: Assoc Prof Li Tianhu