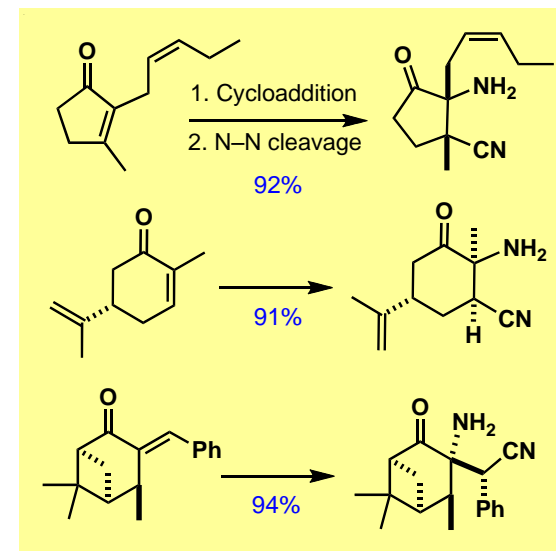
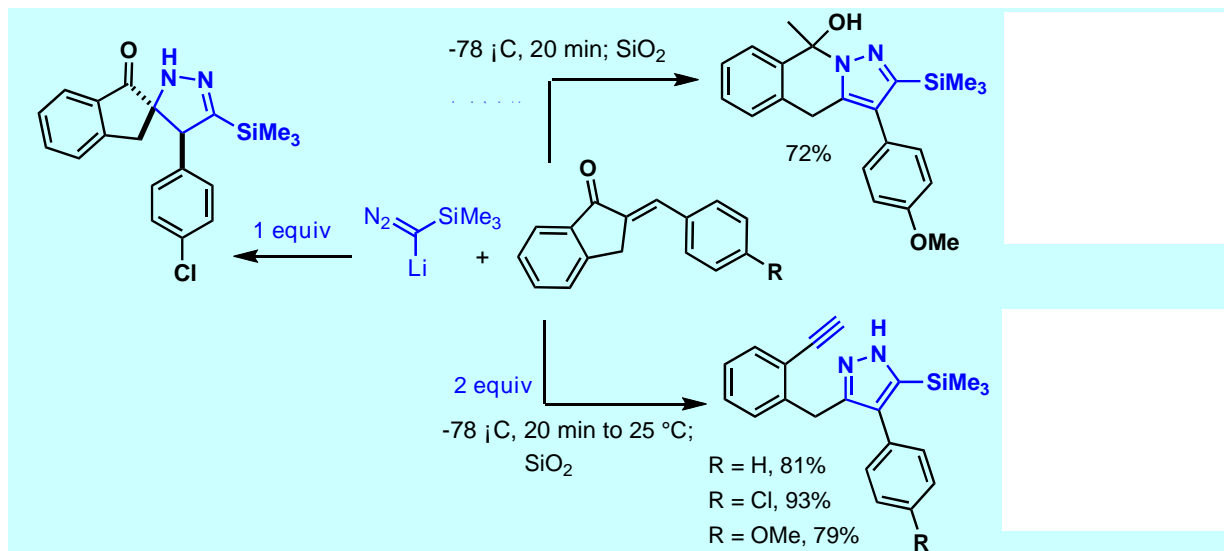


New Cycloaddition Reactions of Anionically Activated Dipoles

Daesung Lee, Department of Chemistry, University of Illinois at Chicago, IL 60607

New reactions of anionic dipoles: Based on the high reactivity of lithium trimethylsilyldiazomethane, various unprecedented transformations were developed including pyrazoline synthesis. The cycloadducts could undergo facile N–N bond cleavage under proteolytic conditions, giving free α -amino ketones with a β -cyanide substituent.



Application to natural product synthesis: The cycloaddition to form a pyrazoline followed by the N–N bond cleavage can be effectively employed for the synthesis of natural products containing α -amino ketones and esters.

