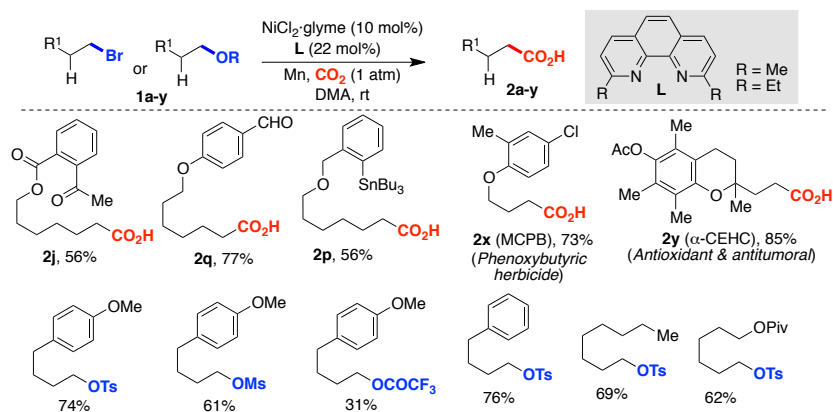
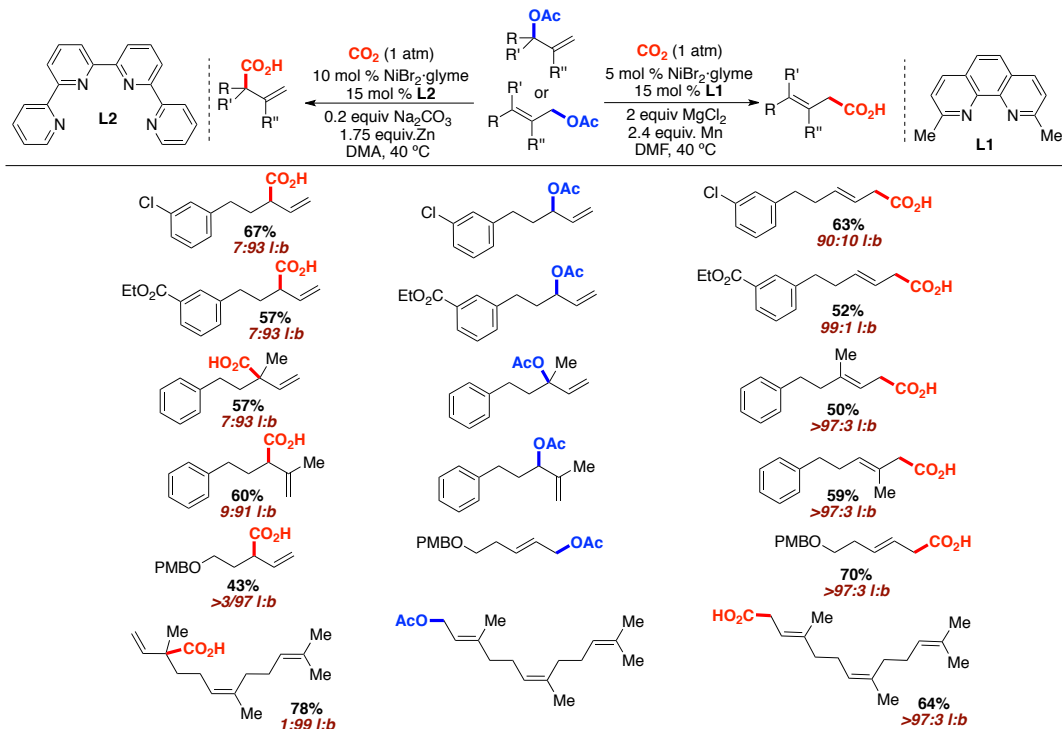


Scheme 1. Pharmaceuticals and biologically active compounds



Scheme 2. Ni-catalyzed reductive carboxylation of primary alkyl bromides and alkyl sulfonates with  $\text{CO}_2$ .



Scheme 3. Ni-catalyzed regioselective carboxylation of allyl acetates.