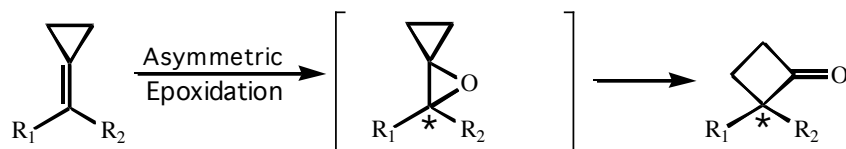


Synthetic Organic Chemistry based on Small Ring Compounds

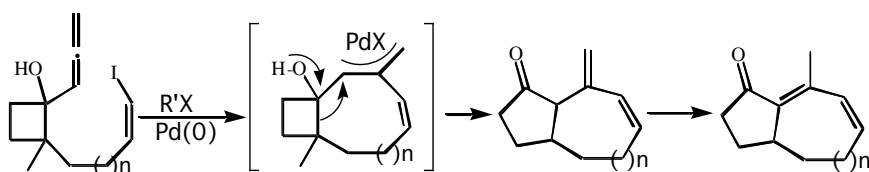
Hideo Nemoto (Faculty of Pharmaceutical Sciences, University of Toyama)

Due to the large ring strain and puckering of small ring compound, interesting preparative and mechanistic aspects specific to these ring system have been developed as shown in the following classifications 1)-4).

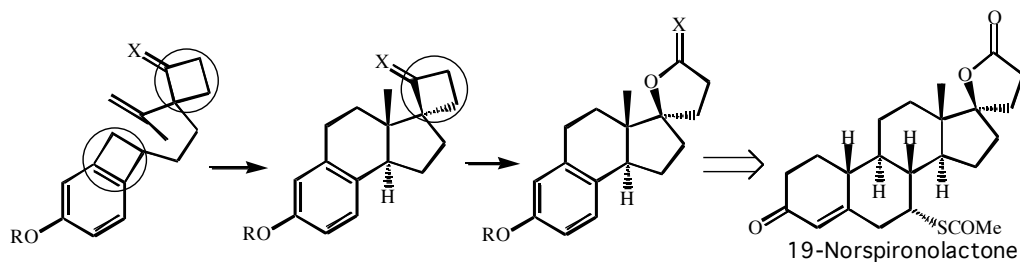
1) Enantiospecific ring expansion of cyclopropanes to cyclobutanes



2) Successive ring expansion – insertion-reaction reaction



3) Successive pericyclic reaction – total synthesis and medicinal chemistry of biologically active compounds



4) Novel reaction mode and substituent effect

