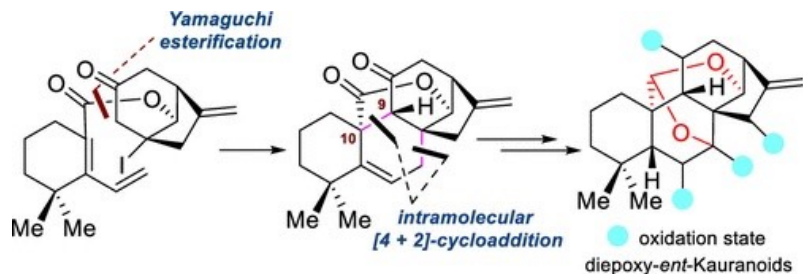
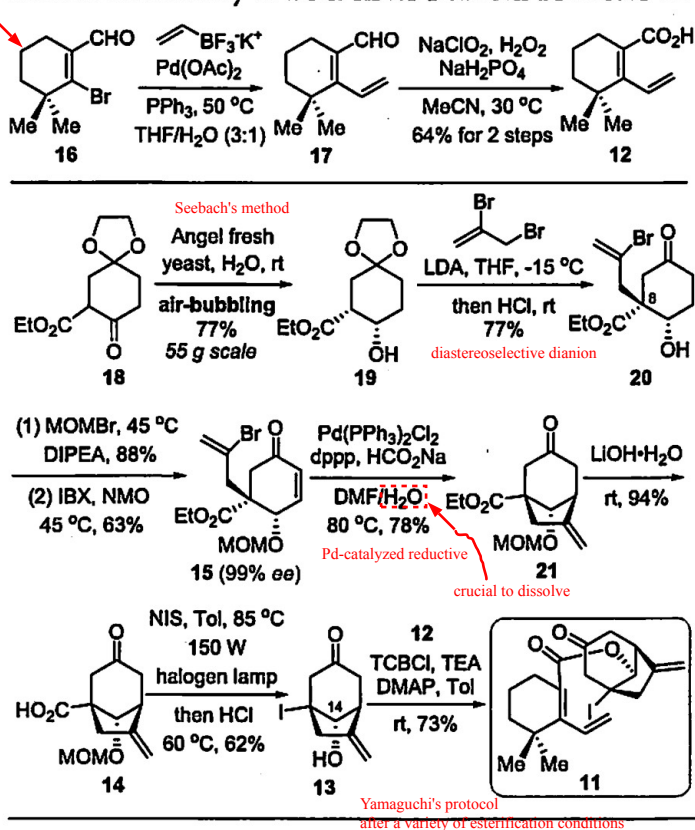


the novel bridgehead-enone-initiated intramolecular cycloaddition

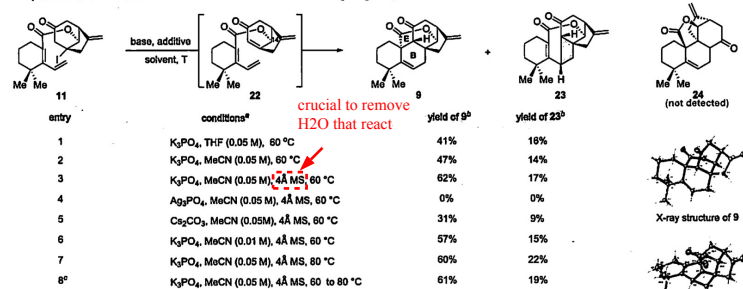
7,20:14,20-diepoxy-*ent*-kauranoids
 a highly reactive [3.2.1]bridgehead enone intermediate



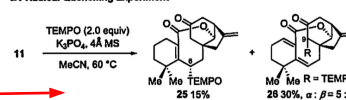
Scheme 2. Assembly of Diels-Alder Reaction Precursor 11



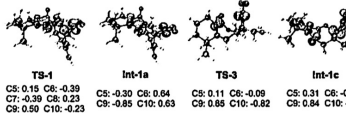
8. Optimization of the Intramolecular Diels-Alder Reaction of 11 via the [3.2.1]-Bridgehead Enone Intermediate 22



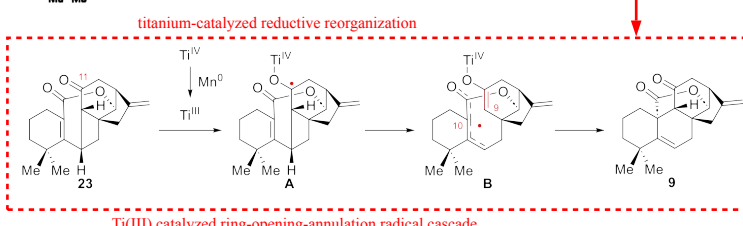
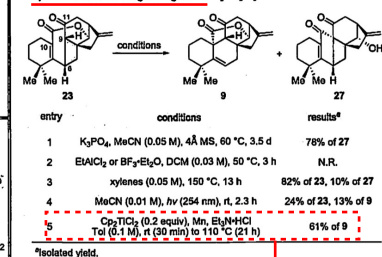
D. Radical Quenching Experiment



C. Spin Density and Mulliken Spin Population



9. Optimization of the Ring-Enlargement of [2+2]-Cycloadduct 23 to Desired 9



Scheme 3. Completion of the Total Syntheses of Four 7,20:14,20-Diepoxy-*ent*-Kauranoids

