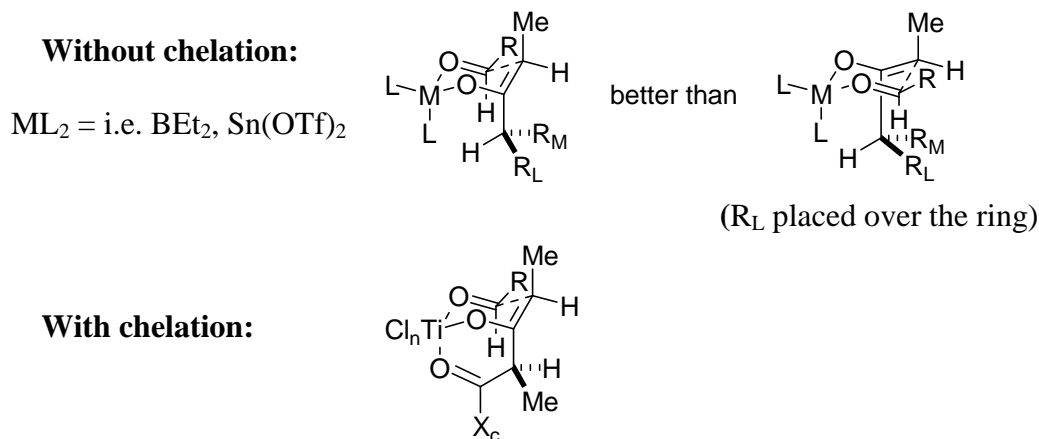


Lecture “Modern Synthetic Methods”

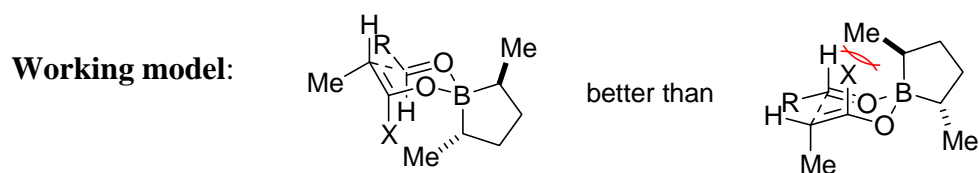
Take-home messages from Week 7

2.4.2. Diastereoselective aldol reactions with enolates bearing an α -stereo center

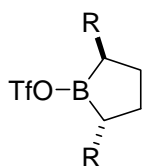


Chiral boron reagents in aldol reactions:

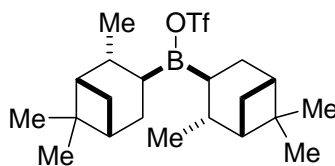
- Particularly useful for ketones where chiral auxiliaries cannot be attached easily
- (*E*)- or (*Z*)-Enolates accessible by appropriate reaction conditions



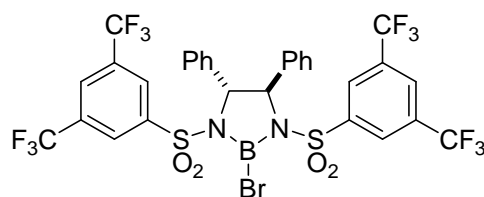
Masamune/Reetz:



Paterson:



Corey:



2.4.3. Organocatalysis

- Landmark: Hajos-Parrish-Eder-Sauer-Wiechert reaction
- Transforms carbonyl groups intermediately into chiral enamines/iminium ions

