Lecture 22 Michael Addition and Diels Alder

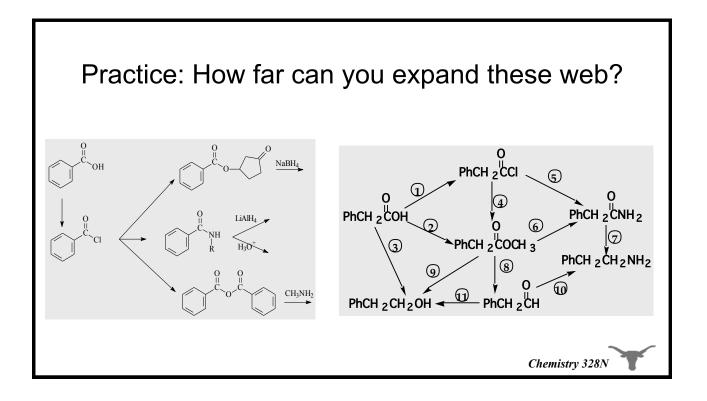


Arthur Michael 1853-1942 April 7, 2016



Otto Paul Hermann Diels 1876-1954

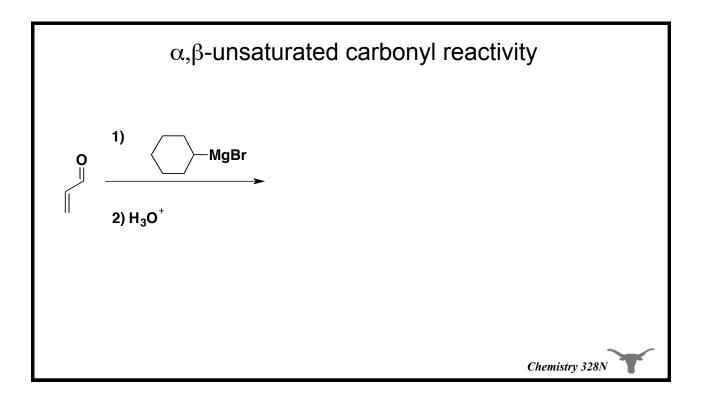


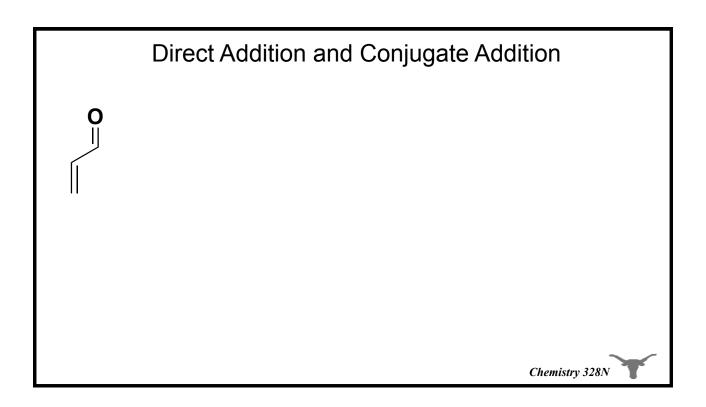


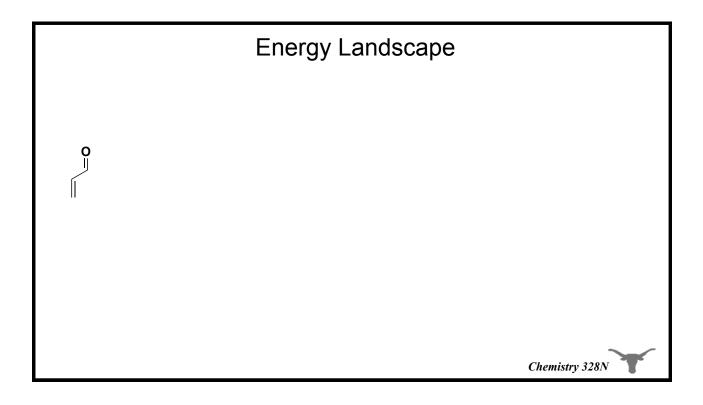


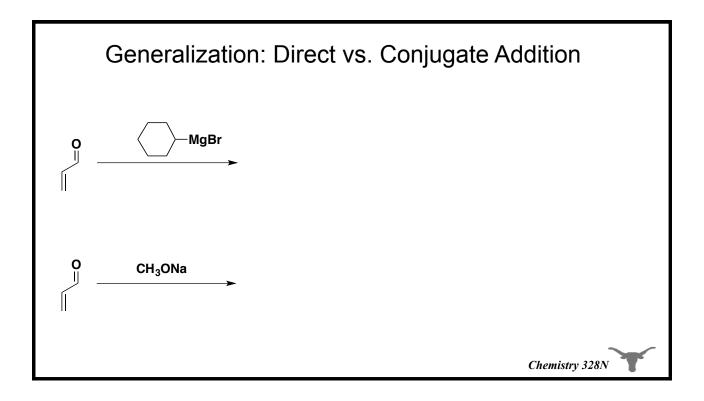
Claisen Condensation: β-ketoesters Dieckmann: Cyclic β-ketoesters Aldol: α, β-unsaturated aldehydes and ketones Acetoacetic ester synthesis: decorated acetones Malonic ester synthesis: decorated acetic acids Michael Reaction: 1-5 dicarbonyl compounds Grignard Reaction: Alcohols..., etc.

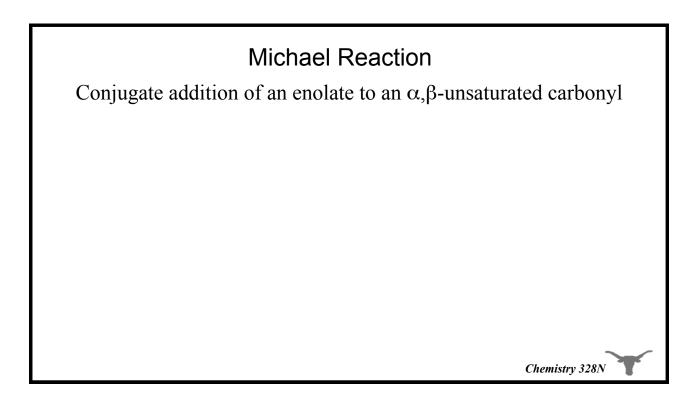
Chemistry 328N

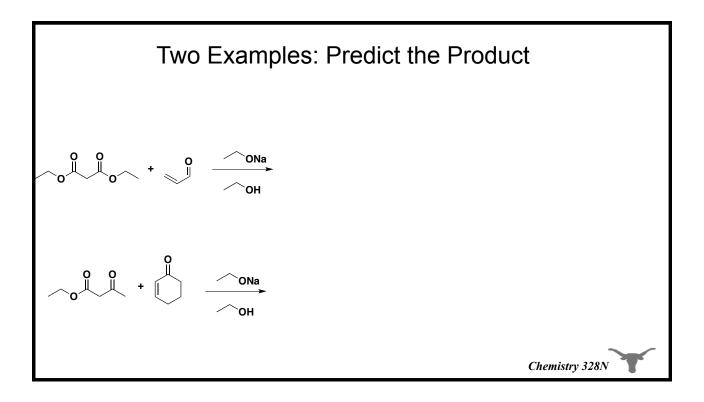


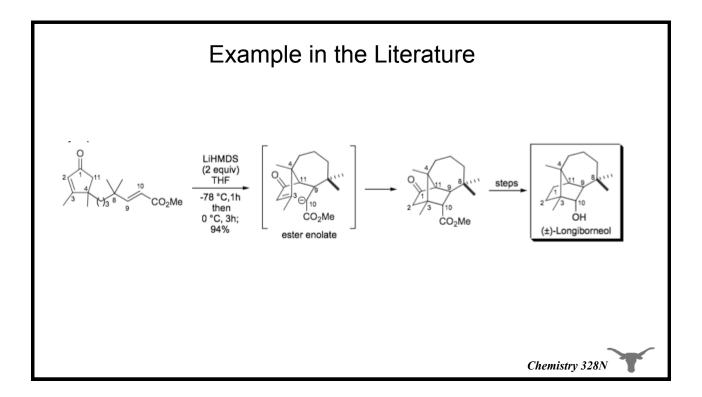


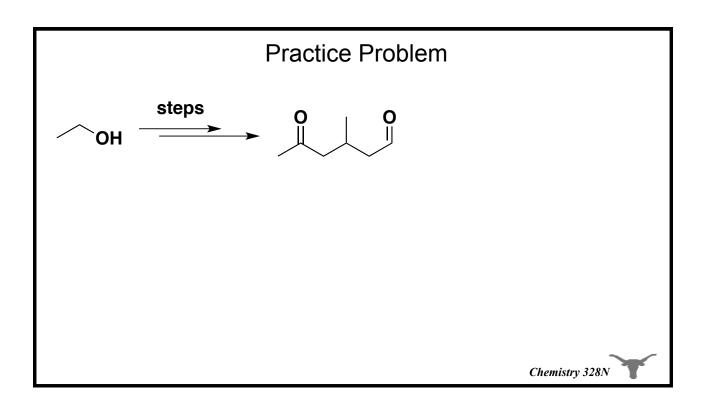


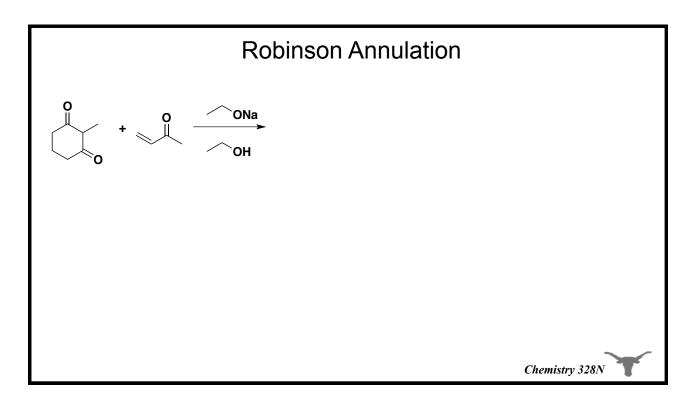


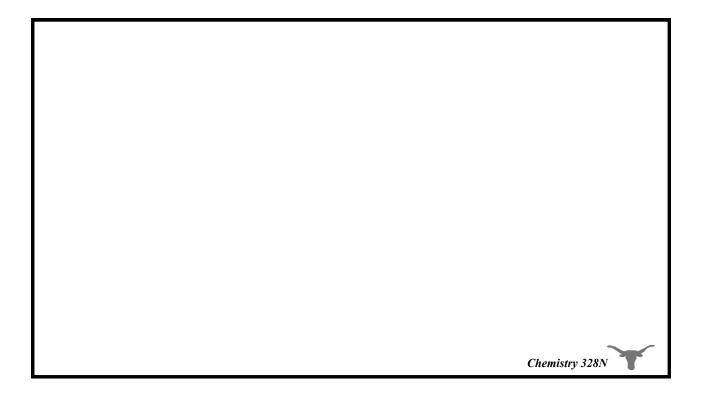


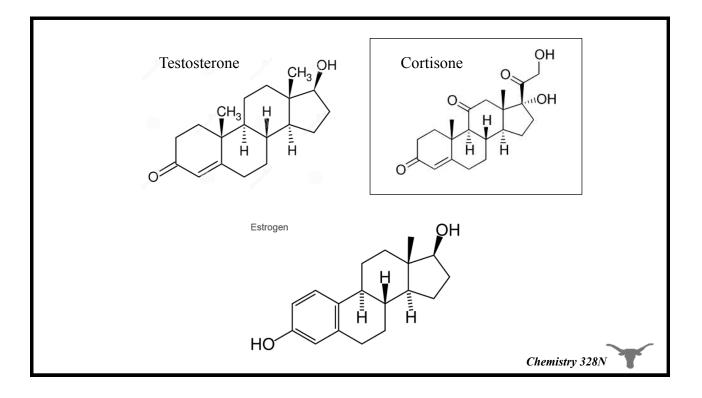












Gilman Reagents

Gilman reagents undergo conjugate addition to α , β -unsaturated aldehydes/ketones

