

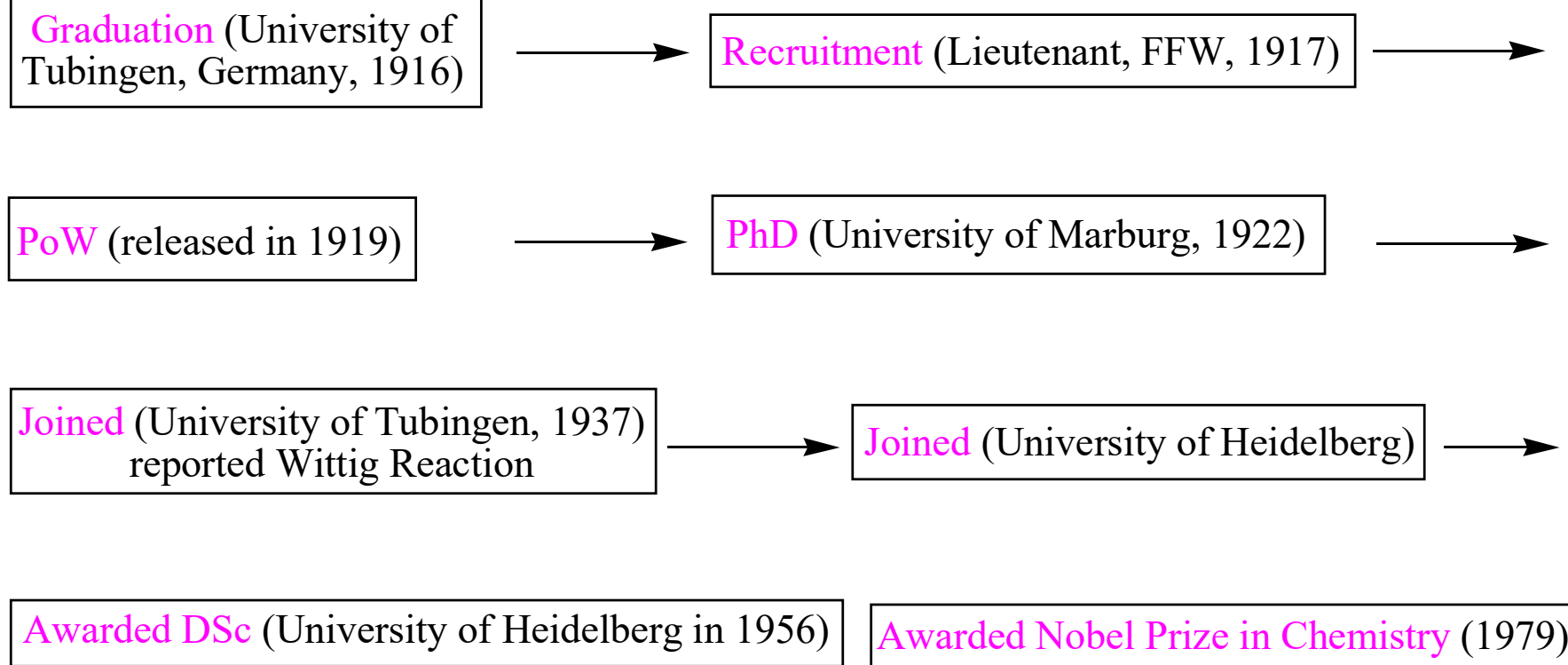
Organometallics Chemistry

(CHEM-7149)

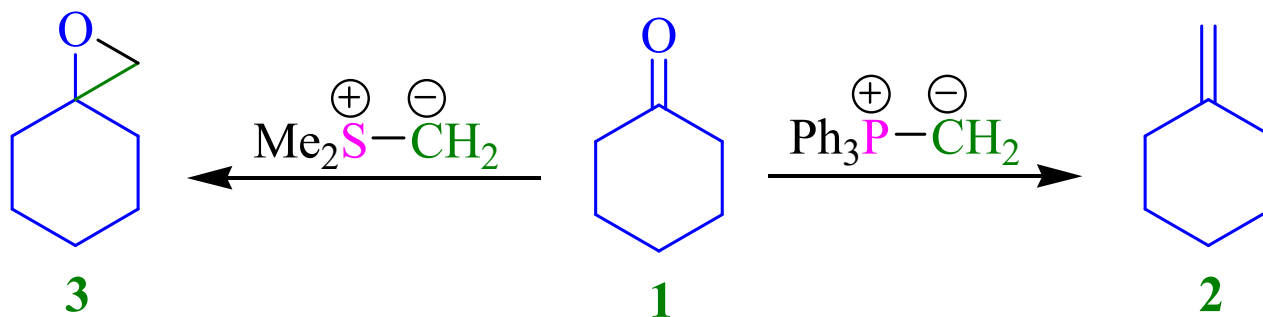
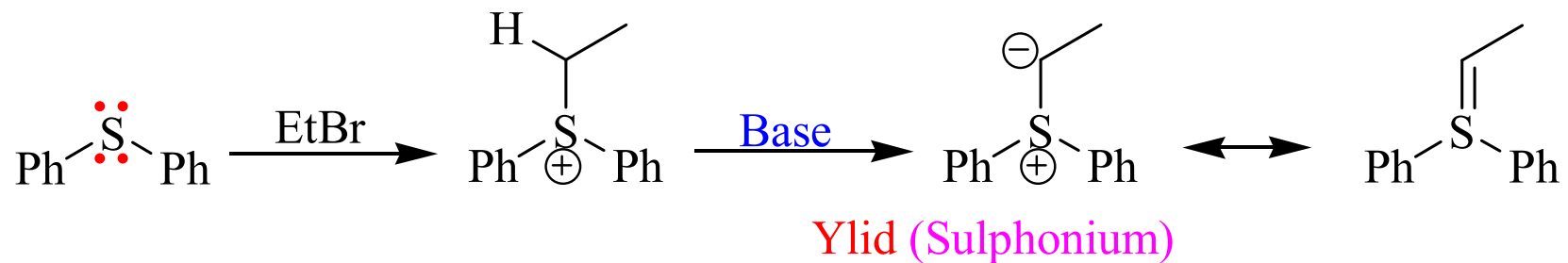
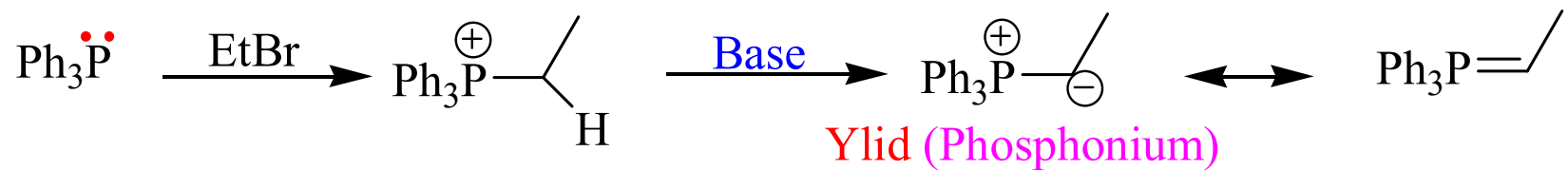
Online Lectures (OrganoP & S)
(Wittig & Julia Olefination)

Dr Abdul Rauf Raza
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Institute of Chemistry
University of Sargodha, Sargodha

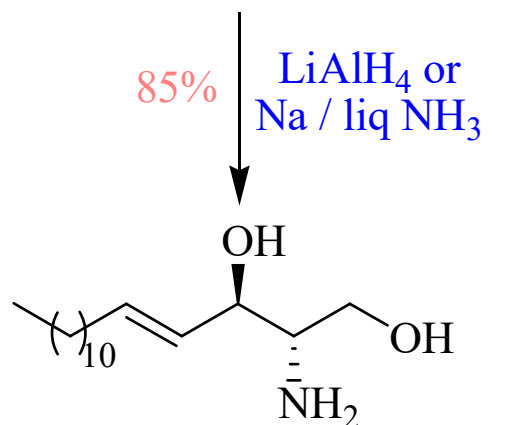
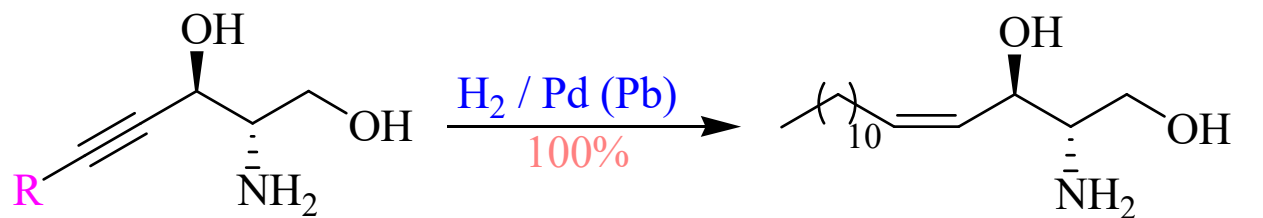
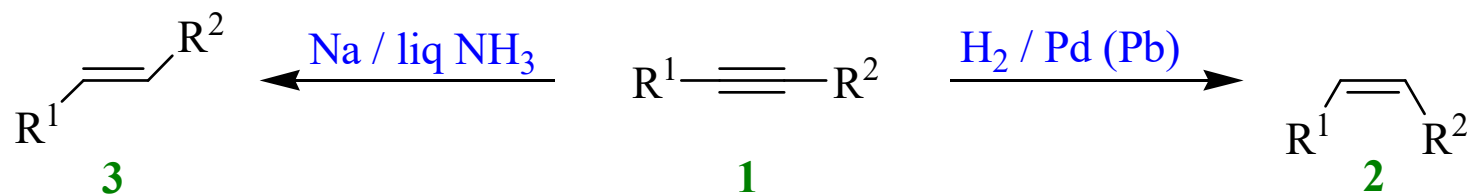
History of OrganoP



Ylids

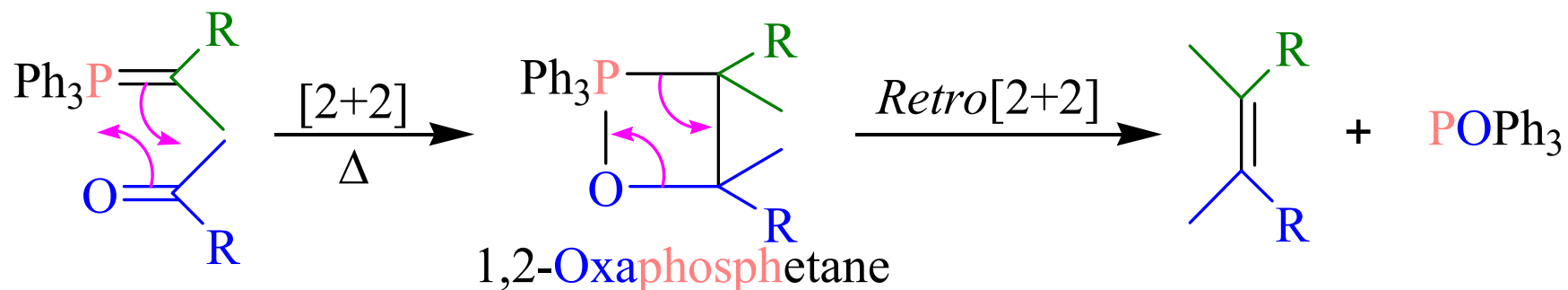


E/Z Selectivity



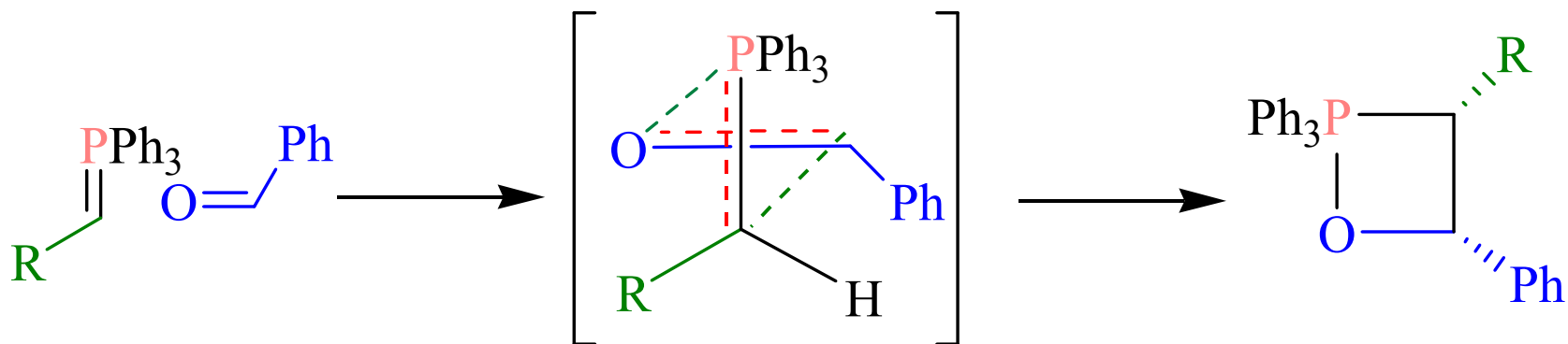
6 (trans)-Sphingosine
 cis : trans (2:98)

Mechanism

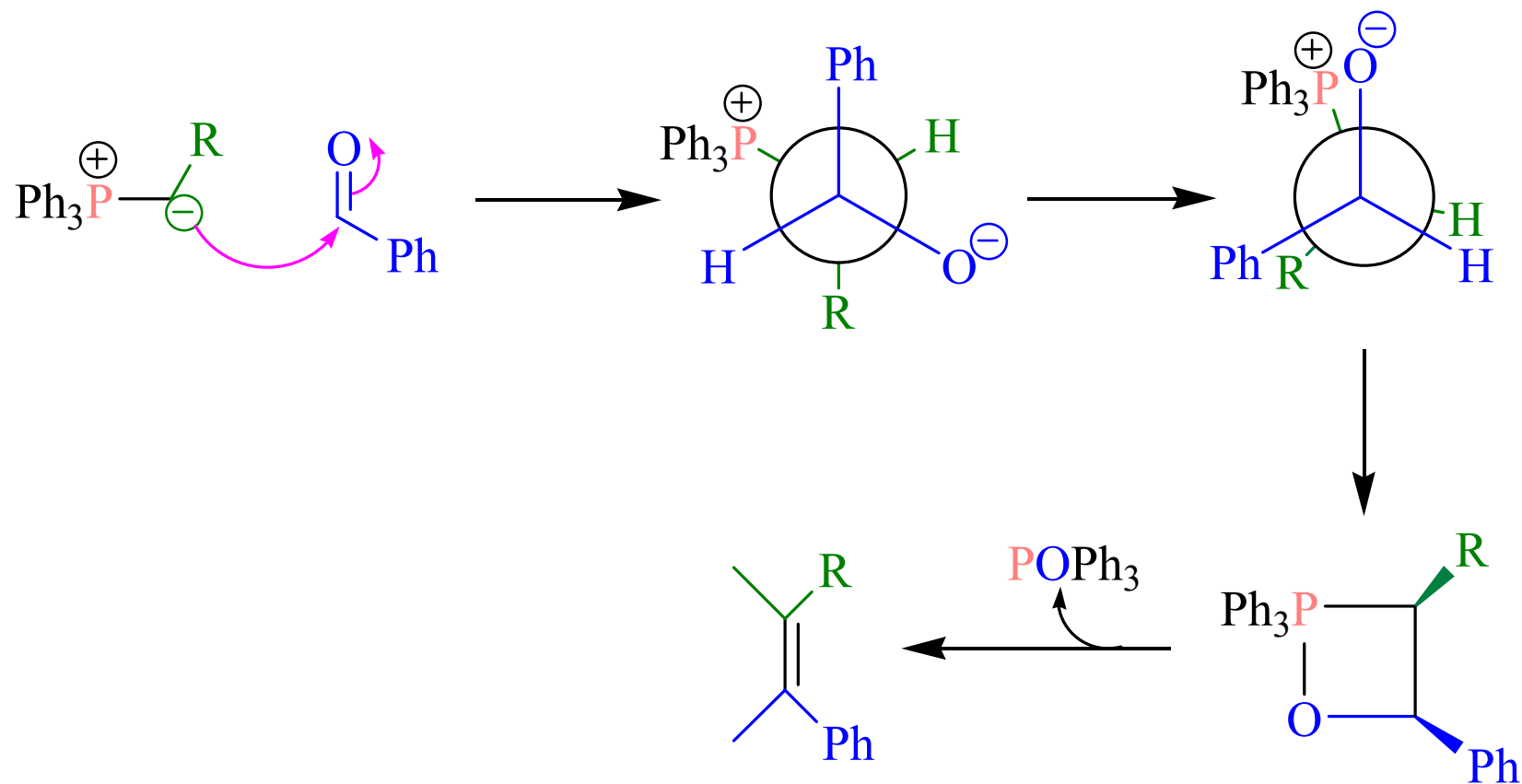


Stable Ylids $\longrightarrow$ *E* Isomer

Unstable Ylids $\longrightarrow$ *Z* Isomer

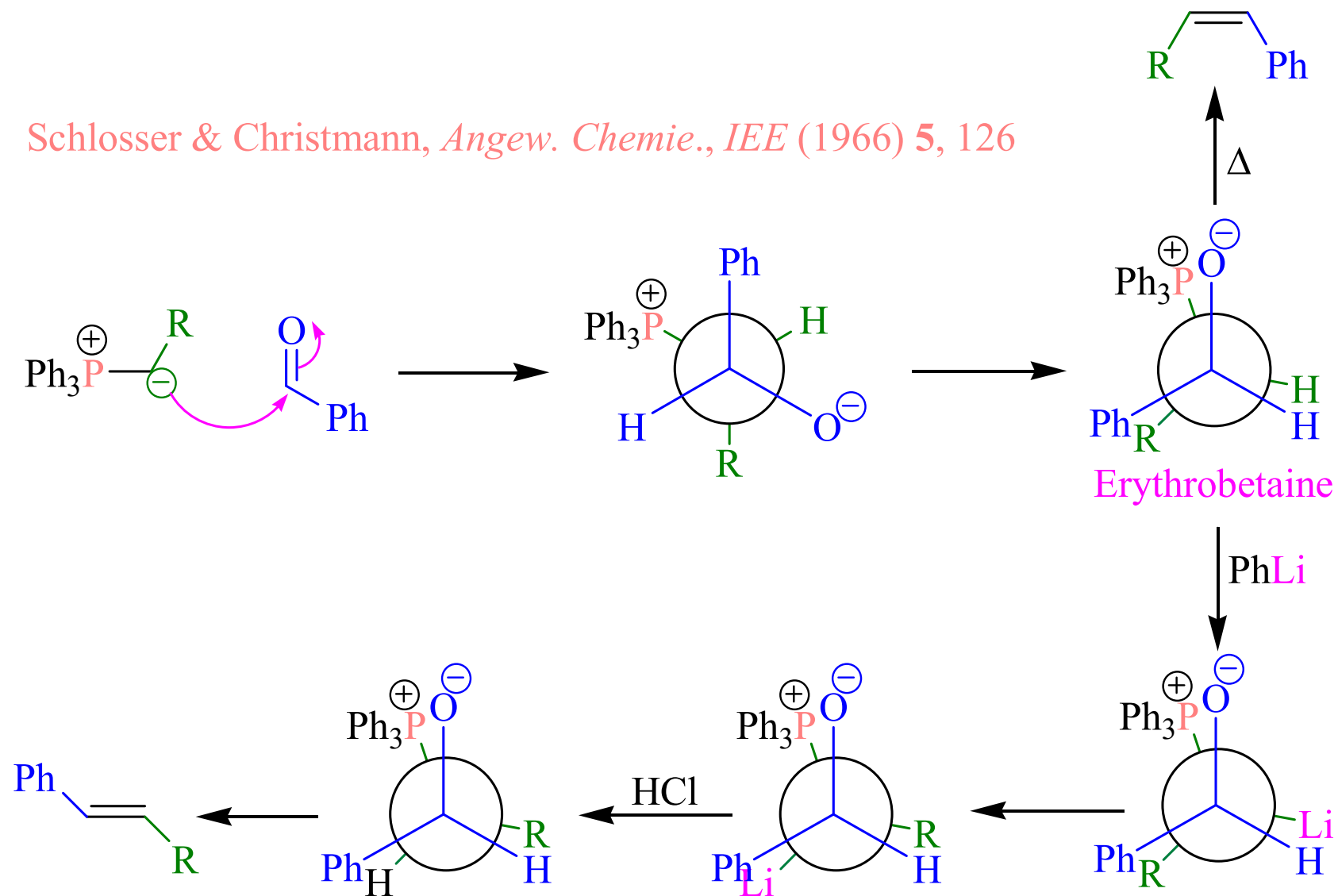


Mechanism

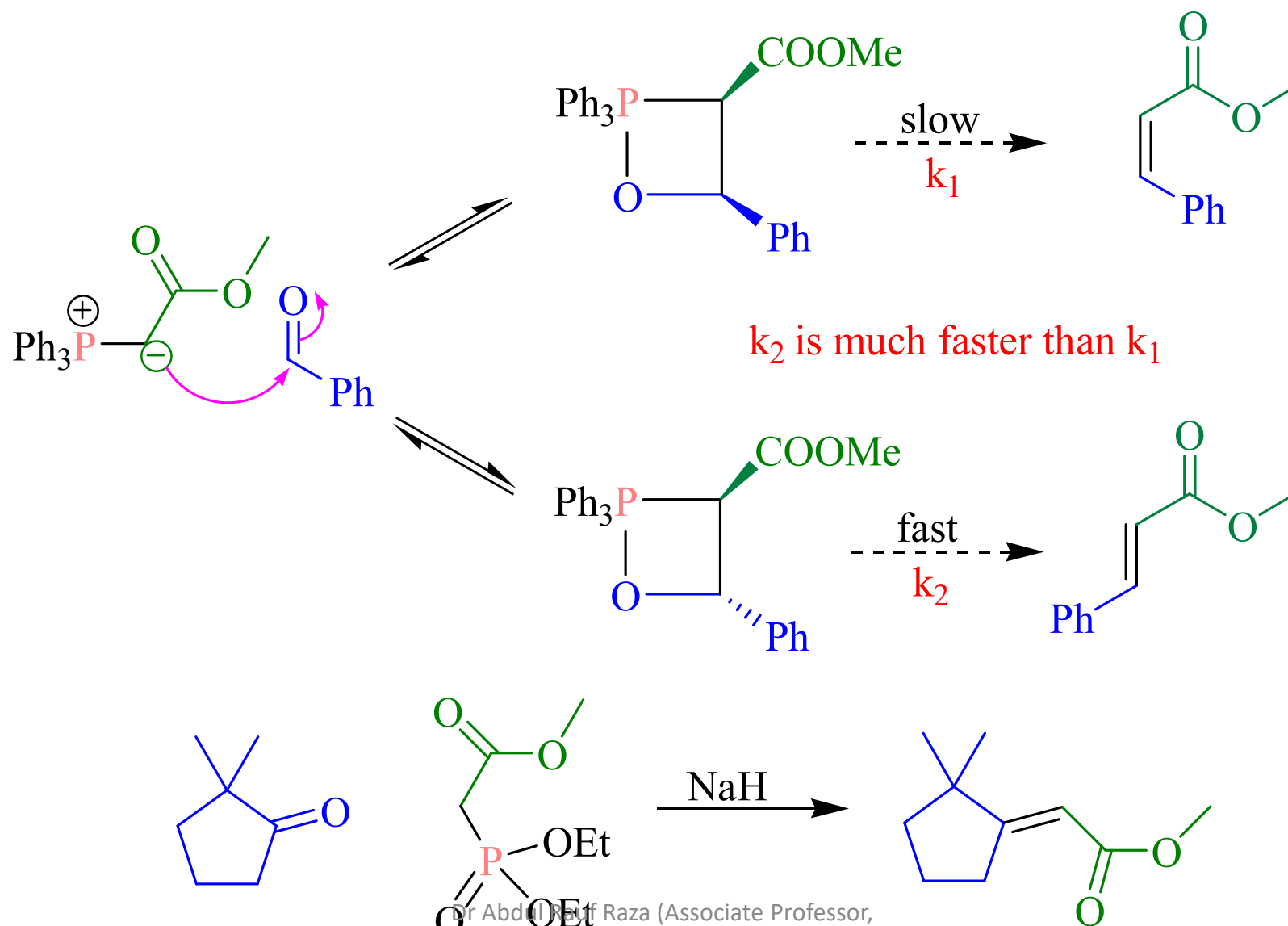


Schlosser's Modification

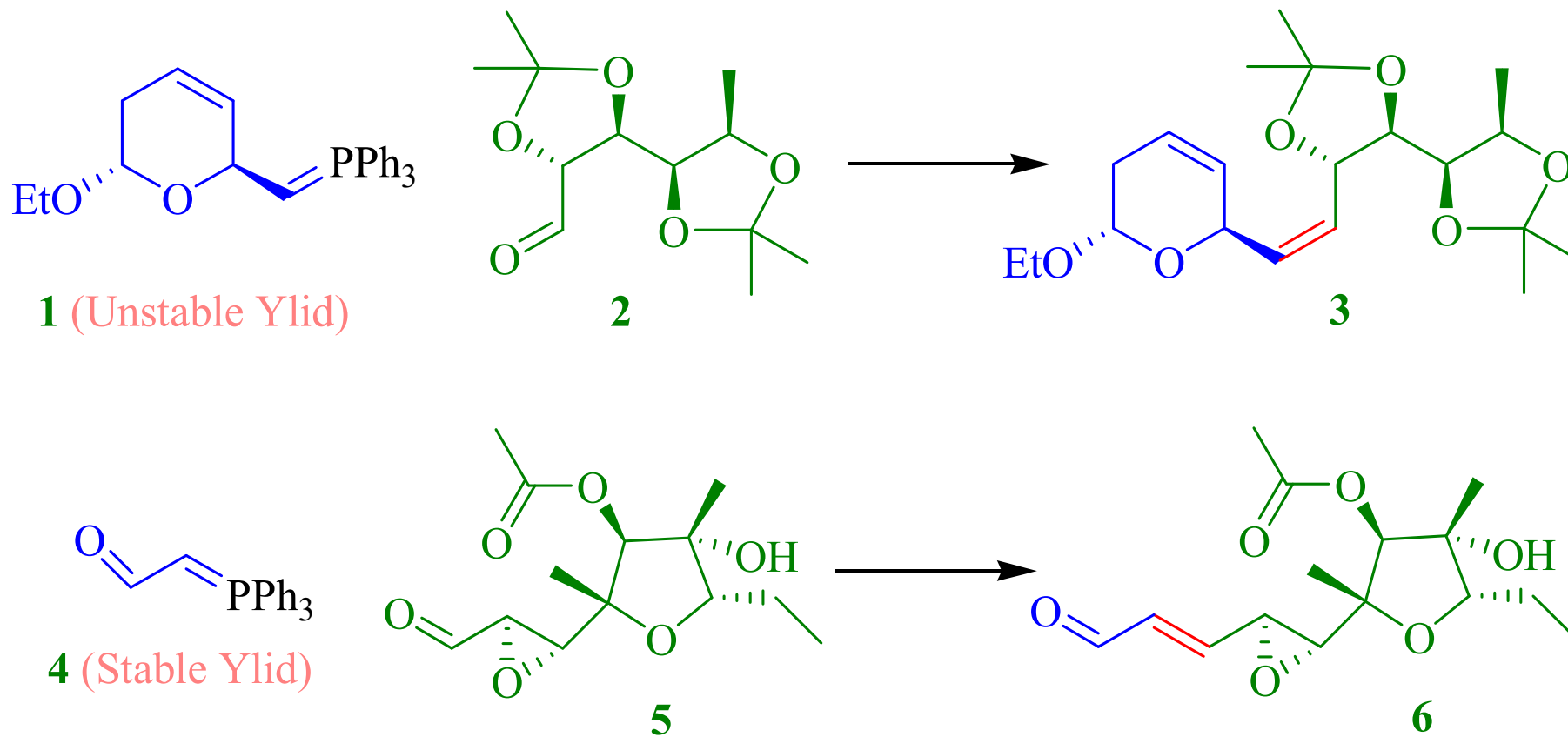
Schlosser & Christmann, *Angew. Chemie., IEE* (1966) **5**, 126



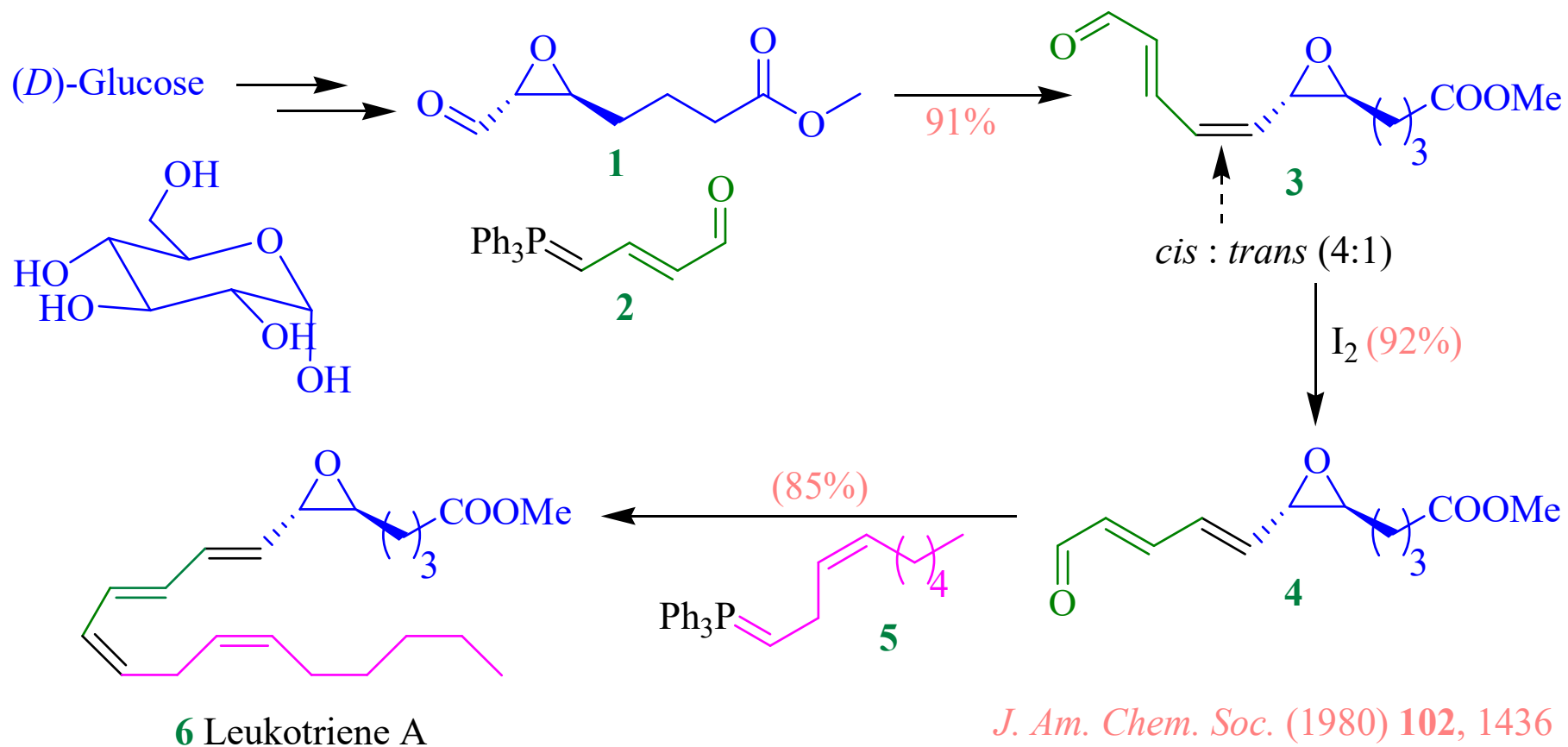
Horner – Wardsworth – Emman's Reaction



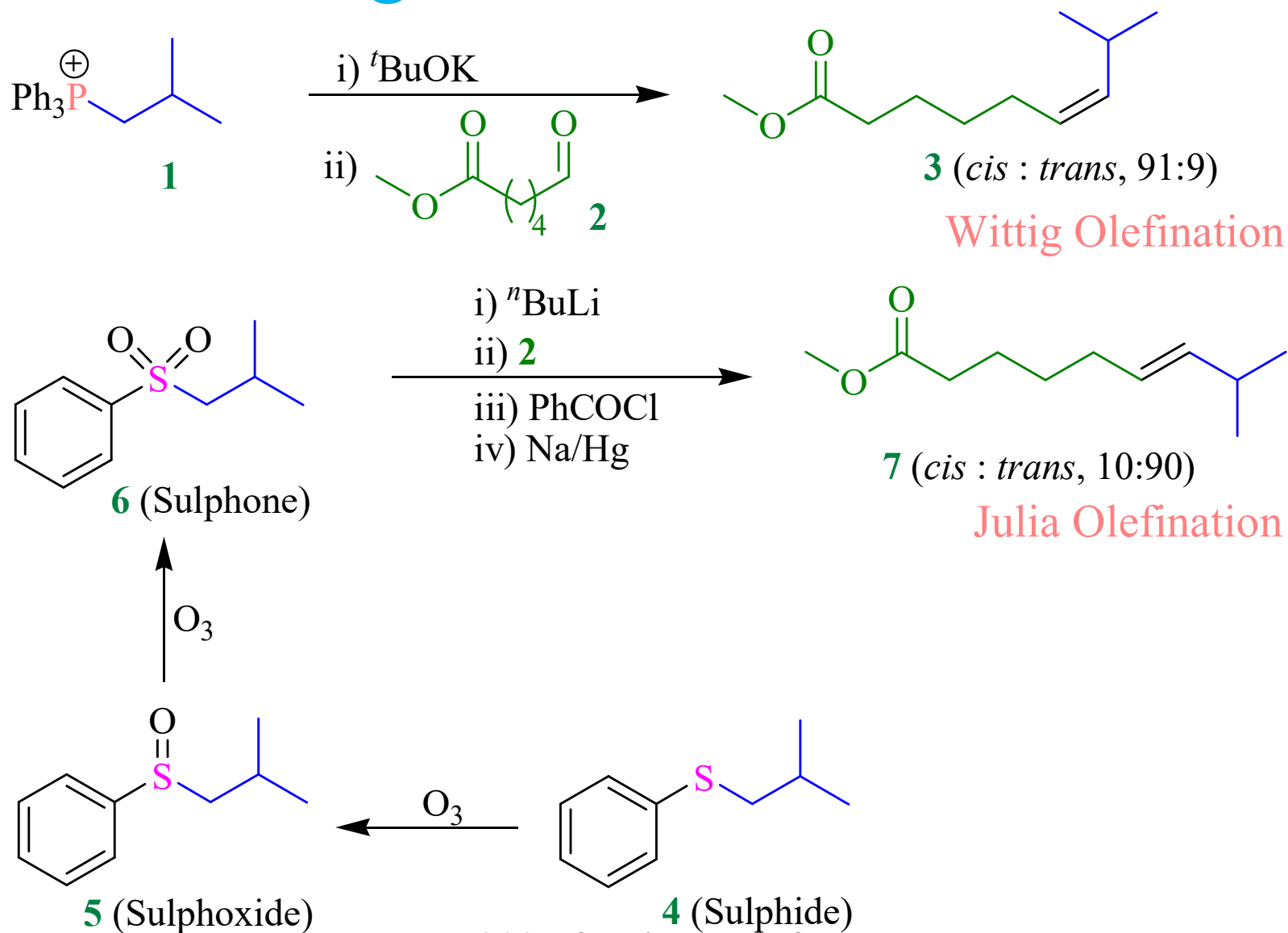
Application (Stable vs Unstable Ylids)



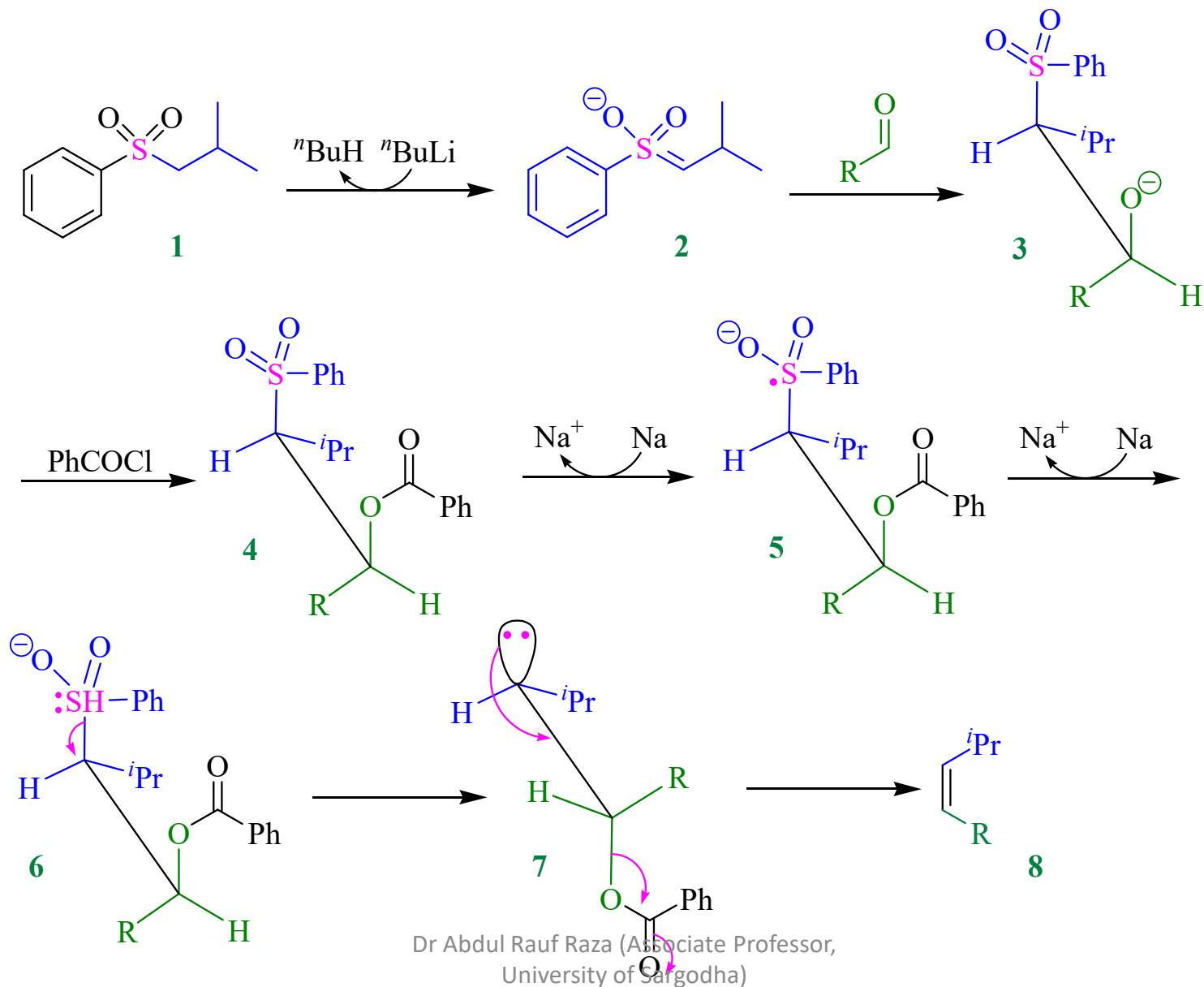
Applications



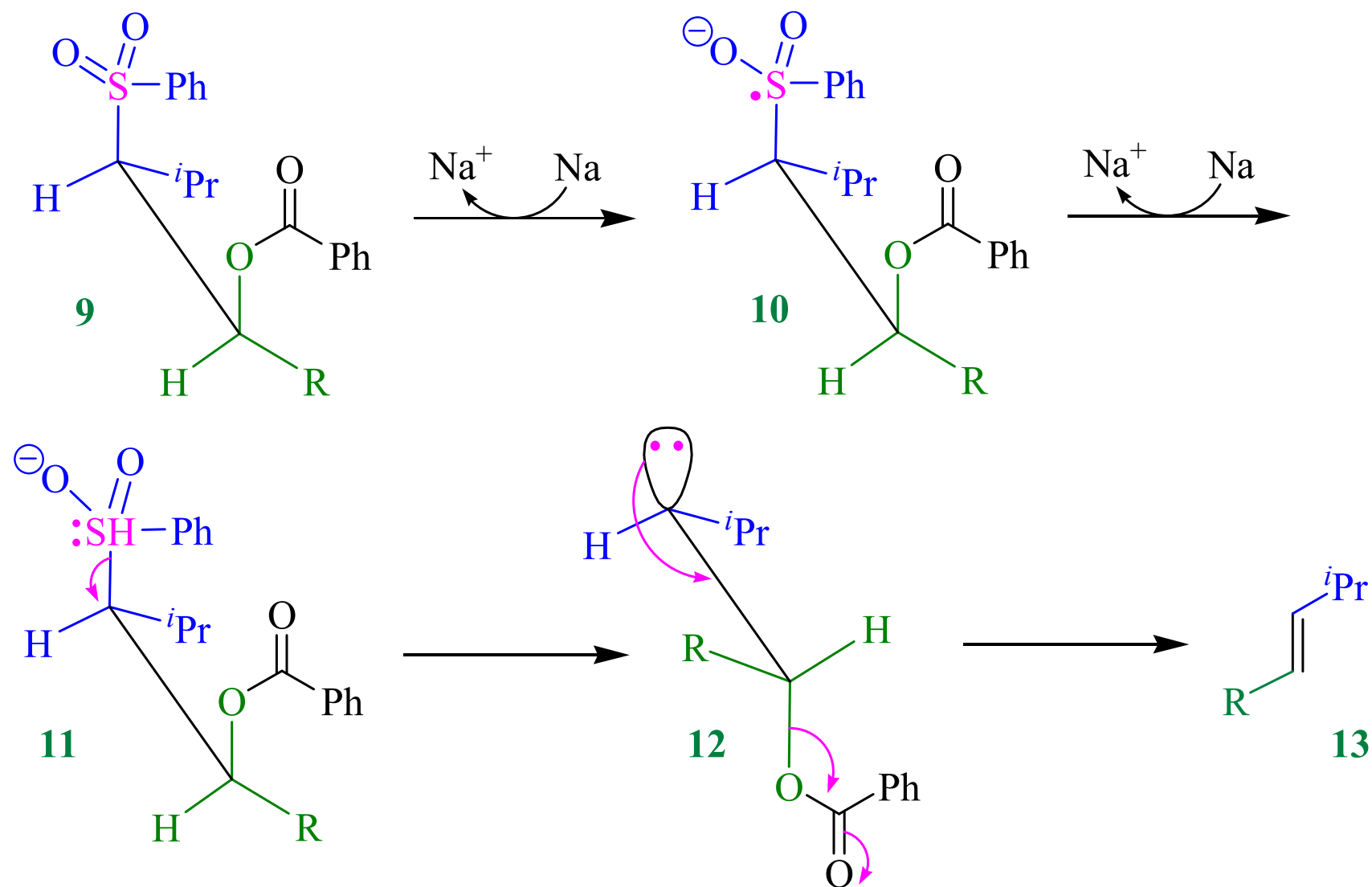
Wittig vs Julia Olefination



Mechanism



Mechanism



Modification

