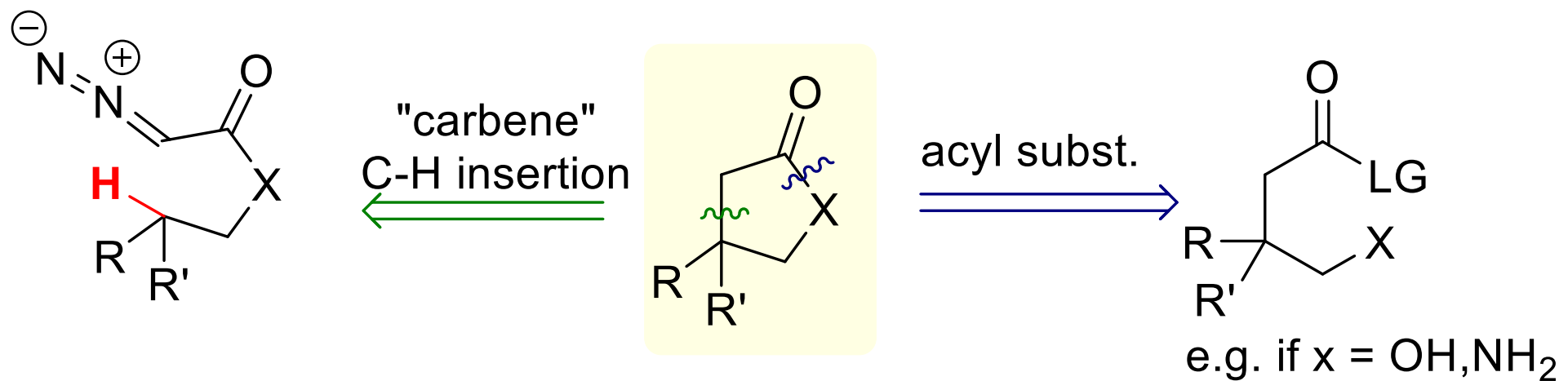
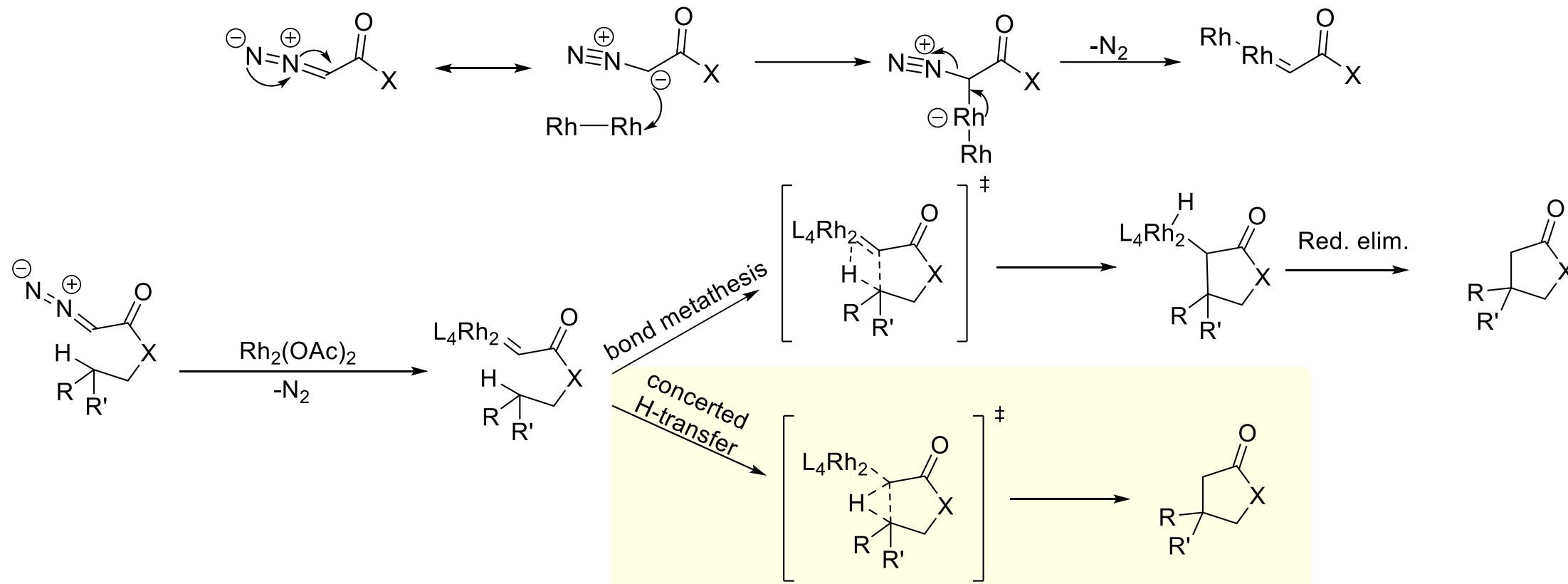


Reaction of the week... Rhodium catalyzed carbene C-H insertion leading to 5-membered rings



Mechanistic



Pirrung and Morehead; *JACS* **1996**, 118, 8162-8163

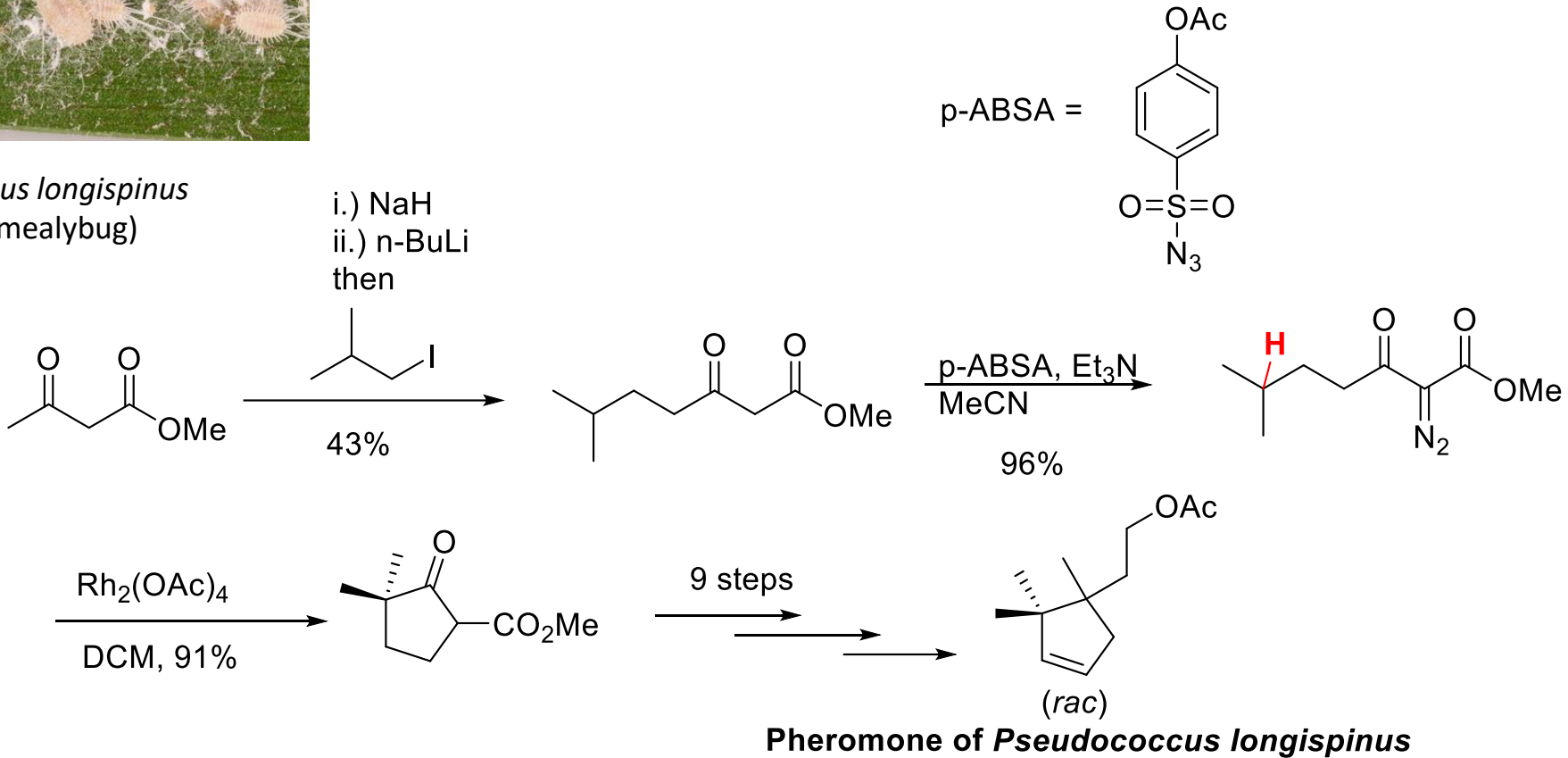
Taber, *JACS* **1996**, 118, 547

Doyle *et al.* *JACS*, **1993**, 115, 958-964

A few synthetic examples



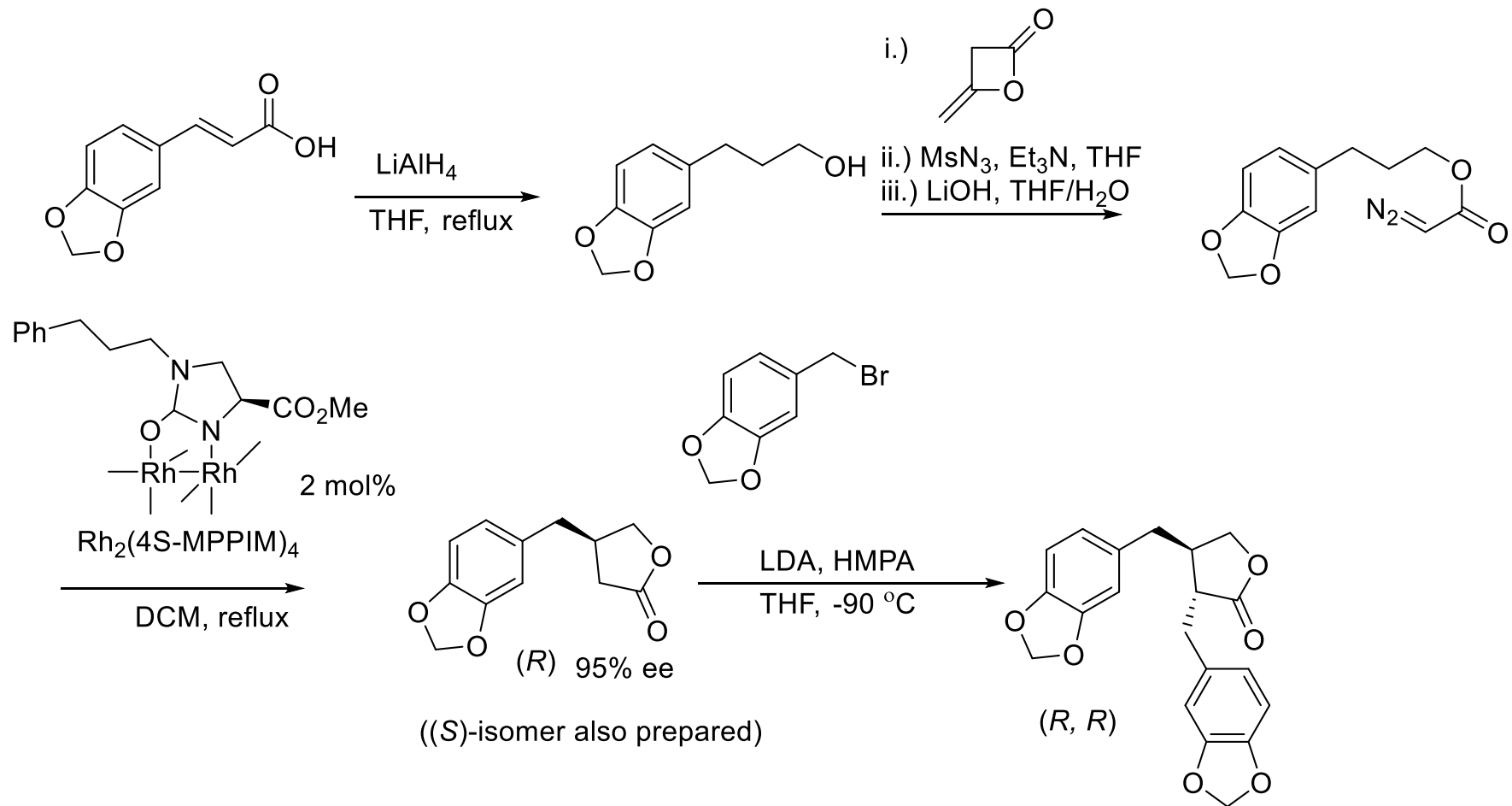
Pseudococcus longispinus
(longtailed mealybug)



Zou and Millar; *JOC*, **2009**, 74, 7207–7209,

picture taken from, https://entnemdept.ufl.edu/creatures/fruit/MEALYBUGS/longtailed_mealybug.htm at 09/09/2021

A few synthetic examples



Hinokinin, a natural product of, among other plants, *C. formonensis*

Other interesting sources:

A good review on TM catalyzed carbene insertions: Doyle et al. *Chem. Rev.* **2010**, 110, 2, 704–724