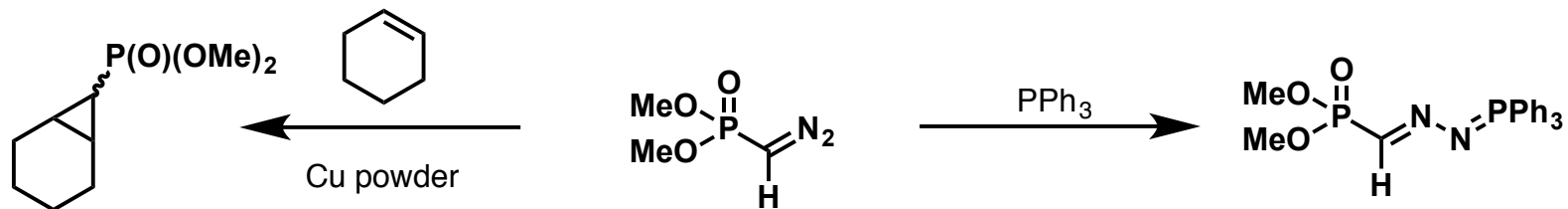


# The Seyferth-Gilbert Homologation: Aldehyde to Alkyne

Dr. Nicholas Race  
Sigman Group  
08/28/17

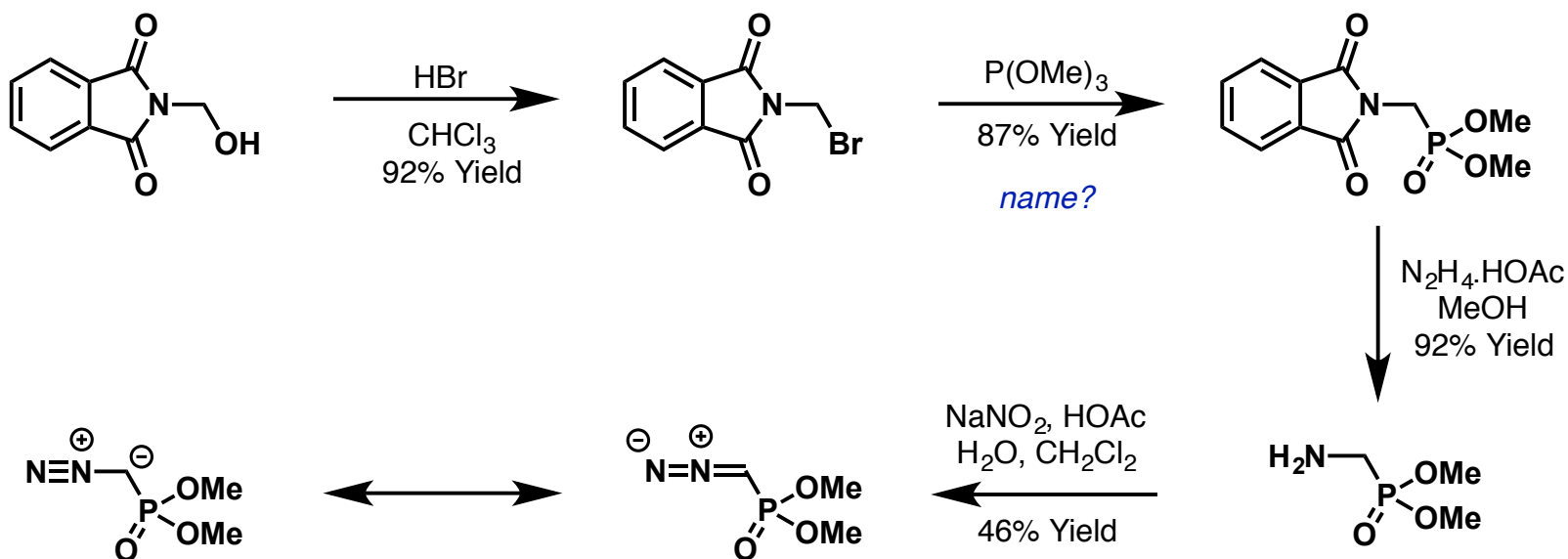
Reaction of the week

# The Seyferth-Gilbert homologation

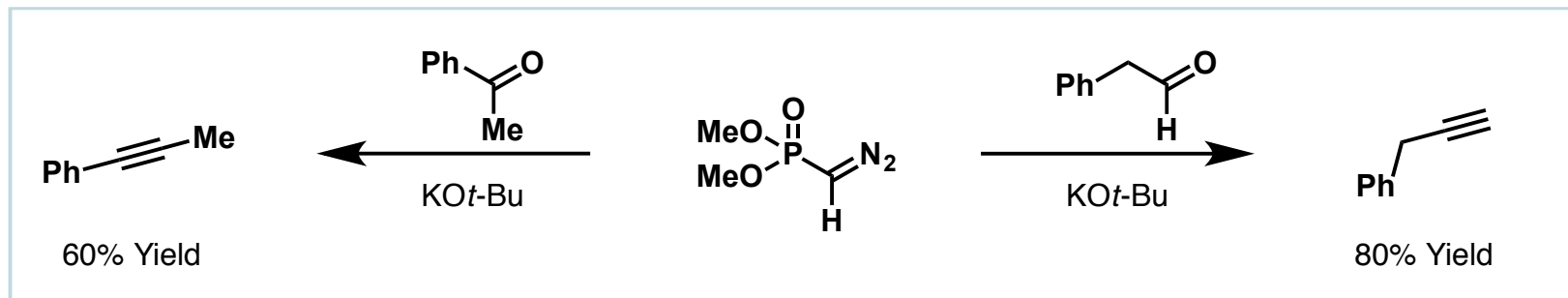


dimethylphosphonodiazomethane  
Seyferth, 1970

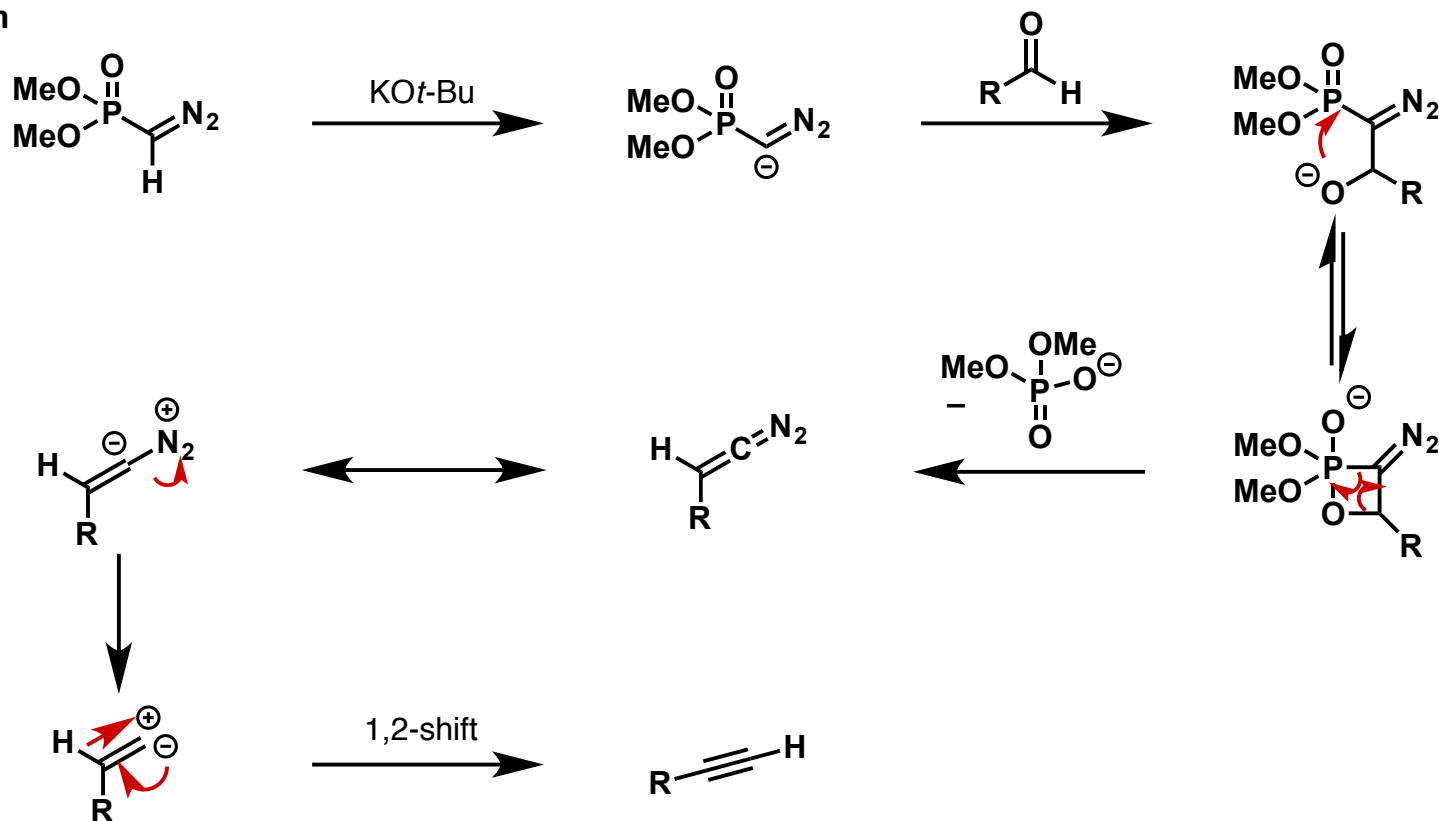
## Synthesis



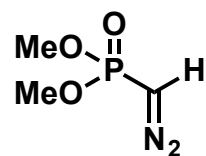
# The Seyferth-Gilbert homologation



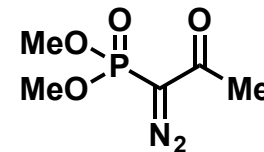
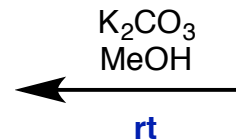
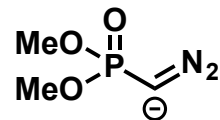
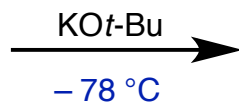
## Mechanism



# The Seyferth-Gilbert homologation

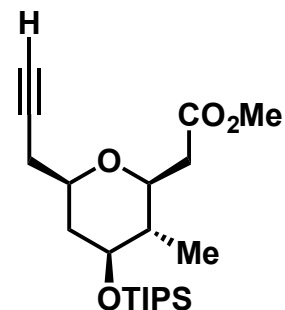
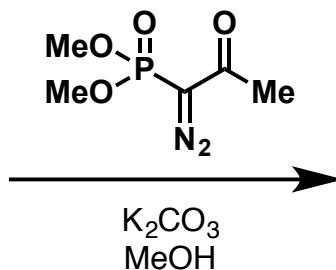
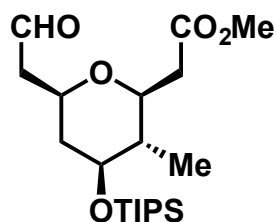


Seyferth  
1989



Ohira reagent  
1989

## Application in synthesis



## *In situ* synthesis of Ohira-Bestmann reagent

