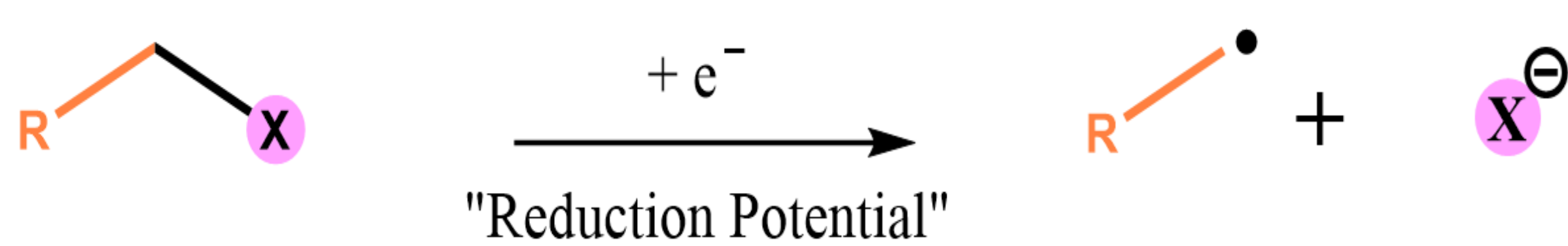




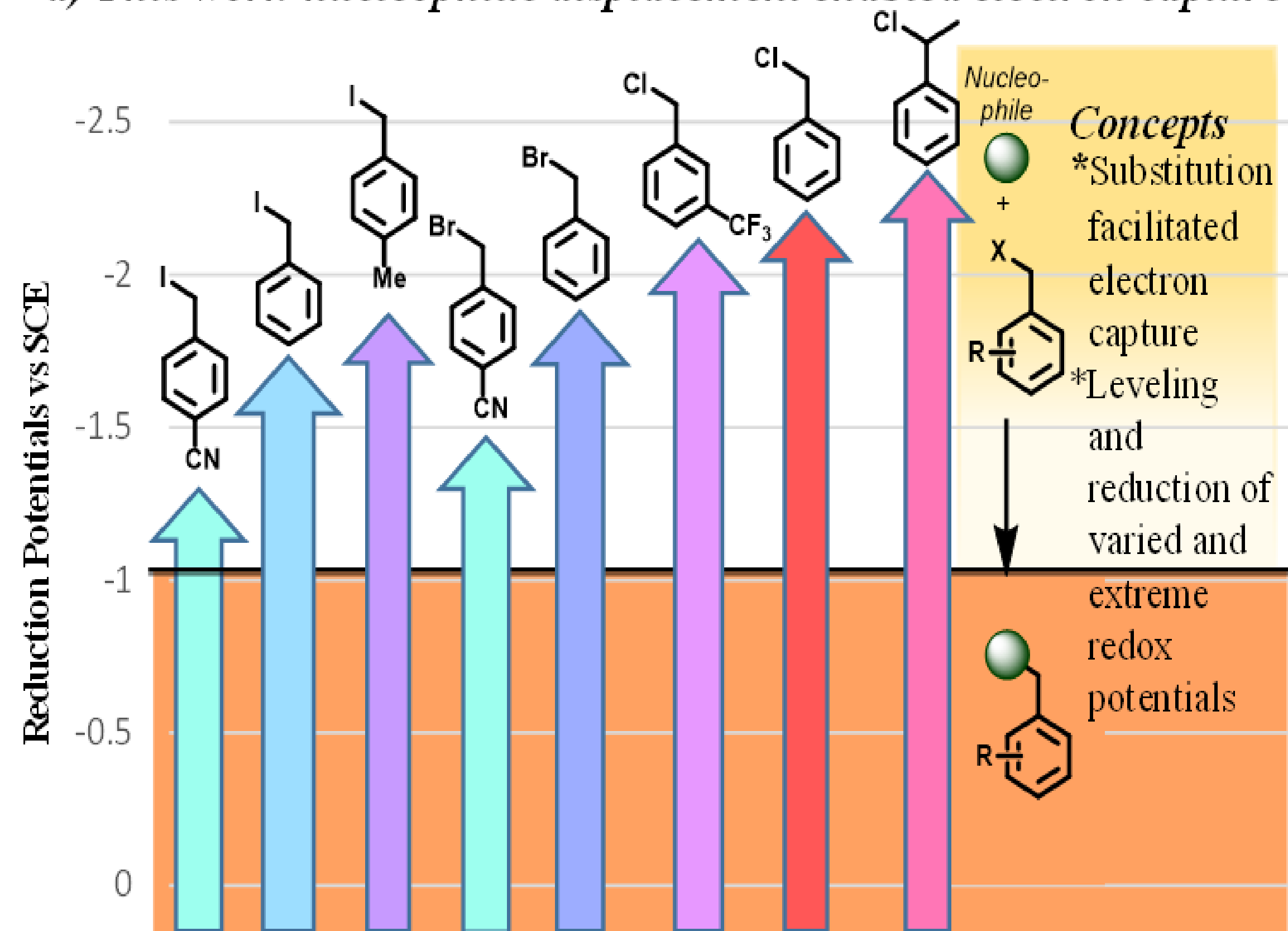
Contextualizing Lutidine Salts in Photocatalytic, Substitution Reactions

Keaton Cissell, Roshini Hanumanthu, Weaver Lab

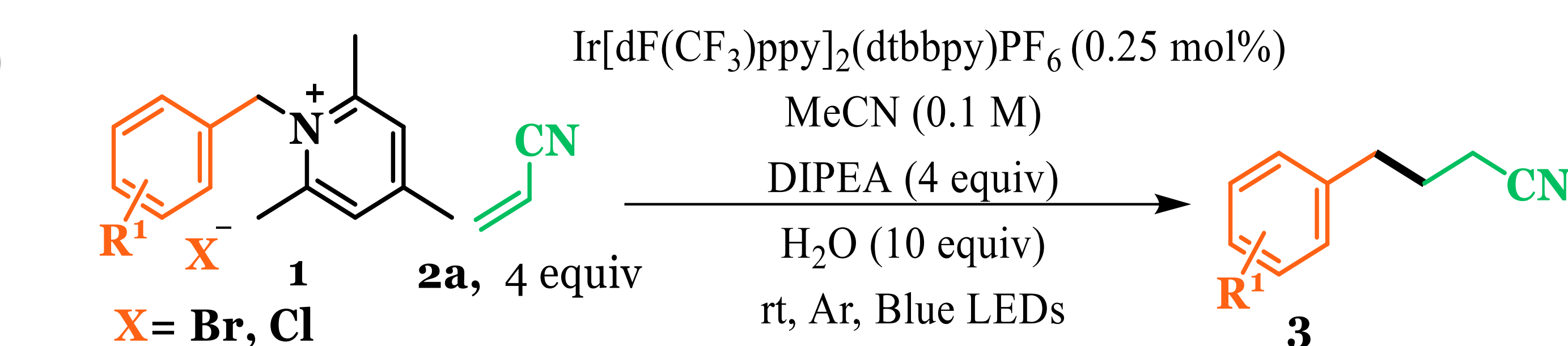
Radical Precursors to Normalize Reduction Potentials



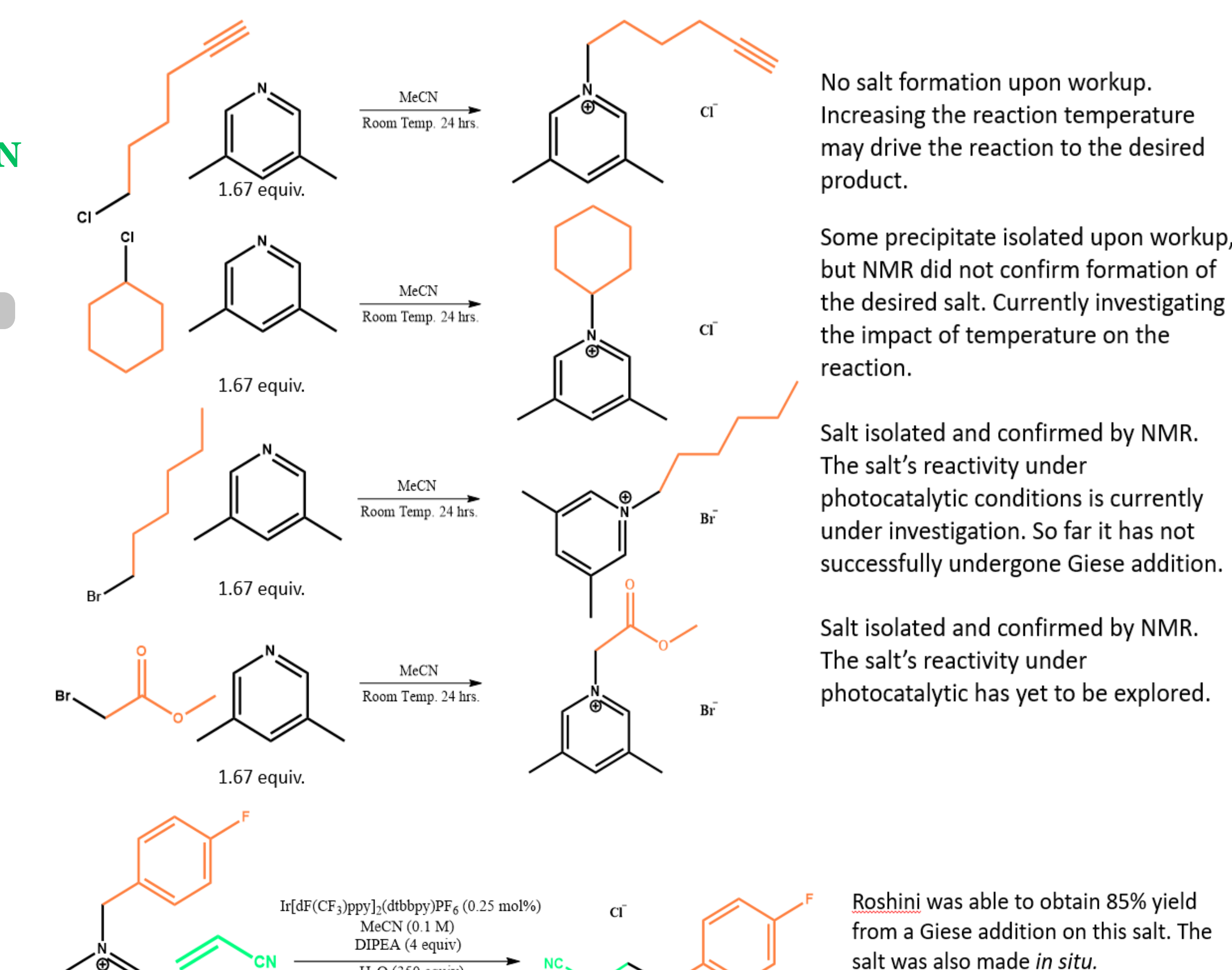
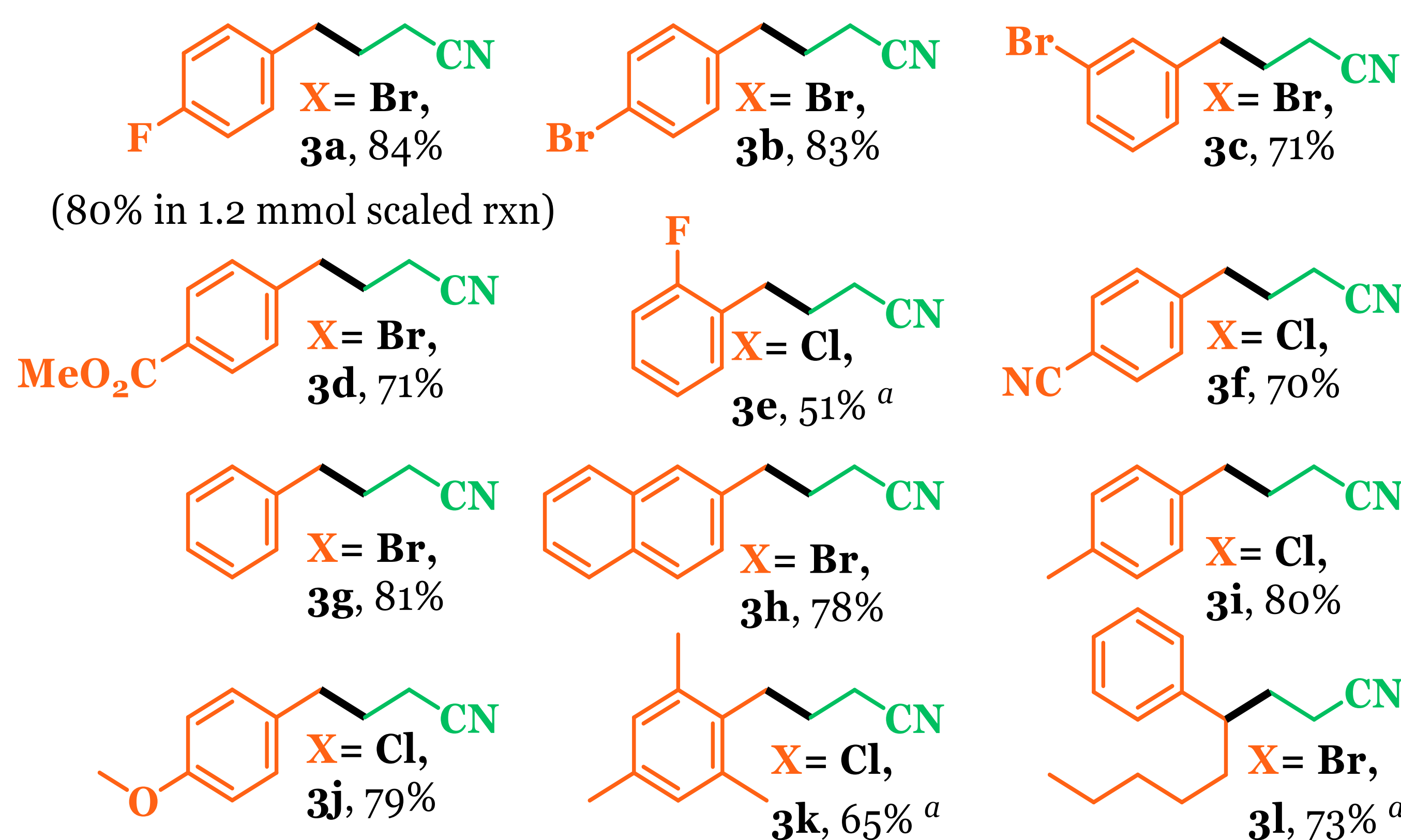
d) This work-nucleophilic displacement enabled electron capture



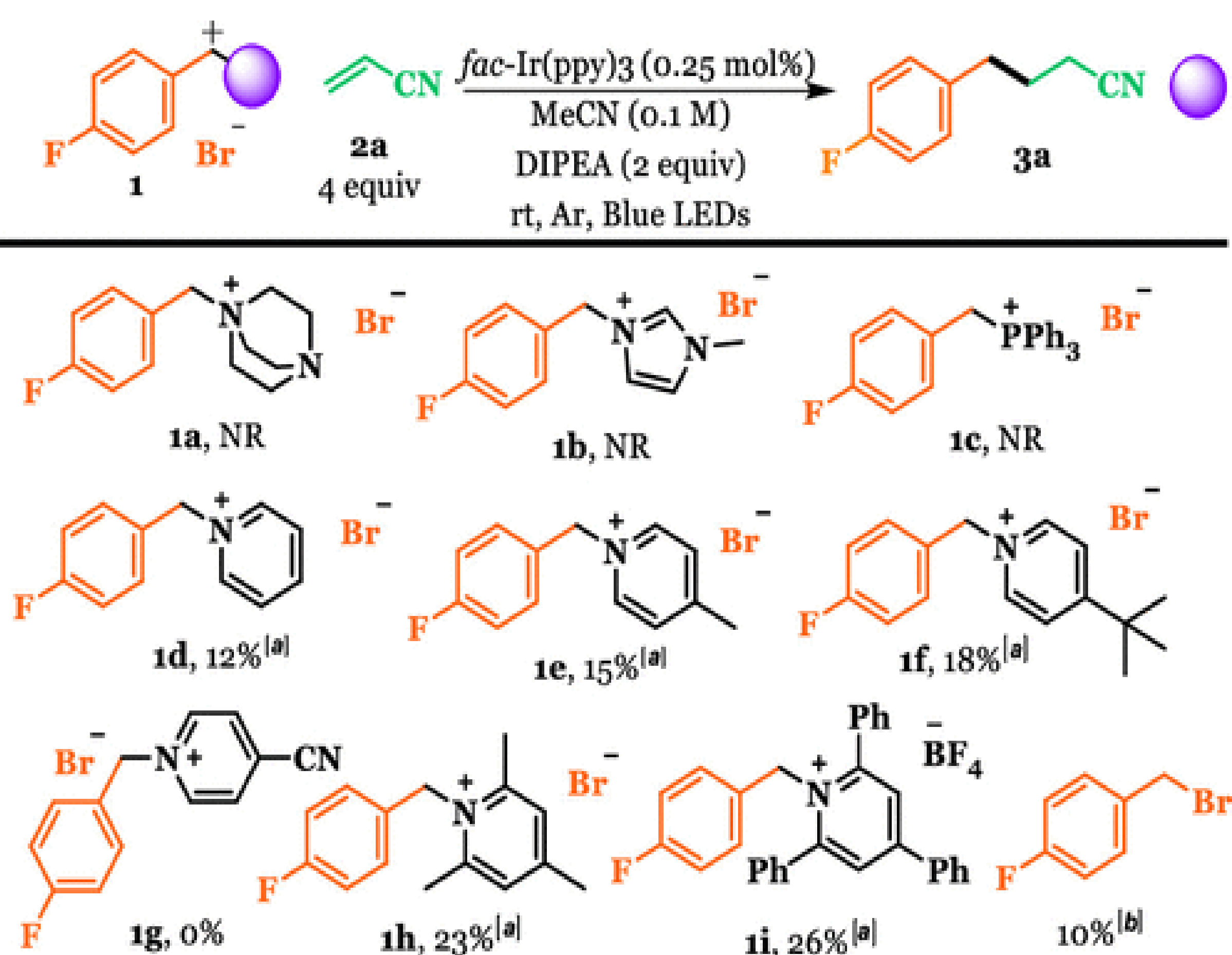
Performance of Collidinium Salts in Giese Addition Reactions



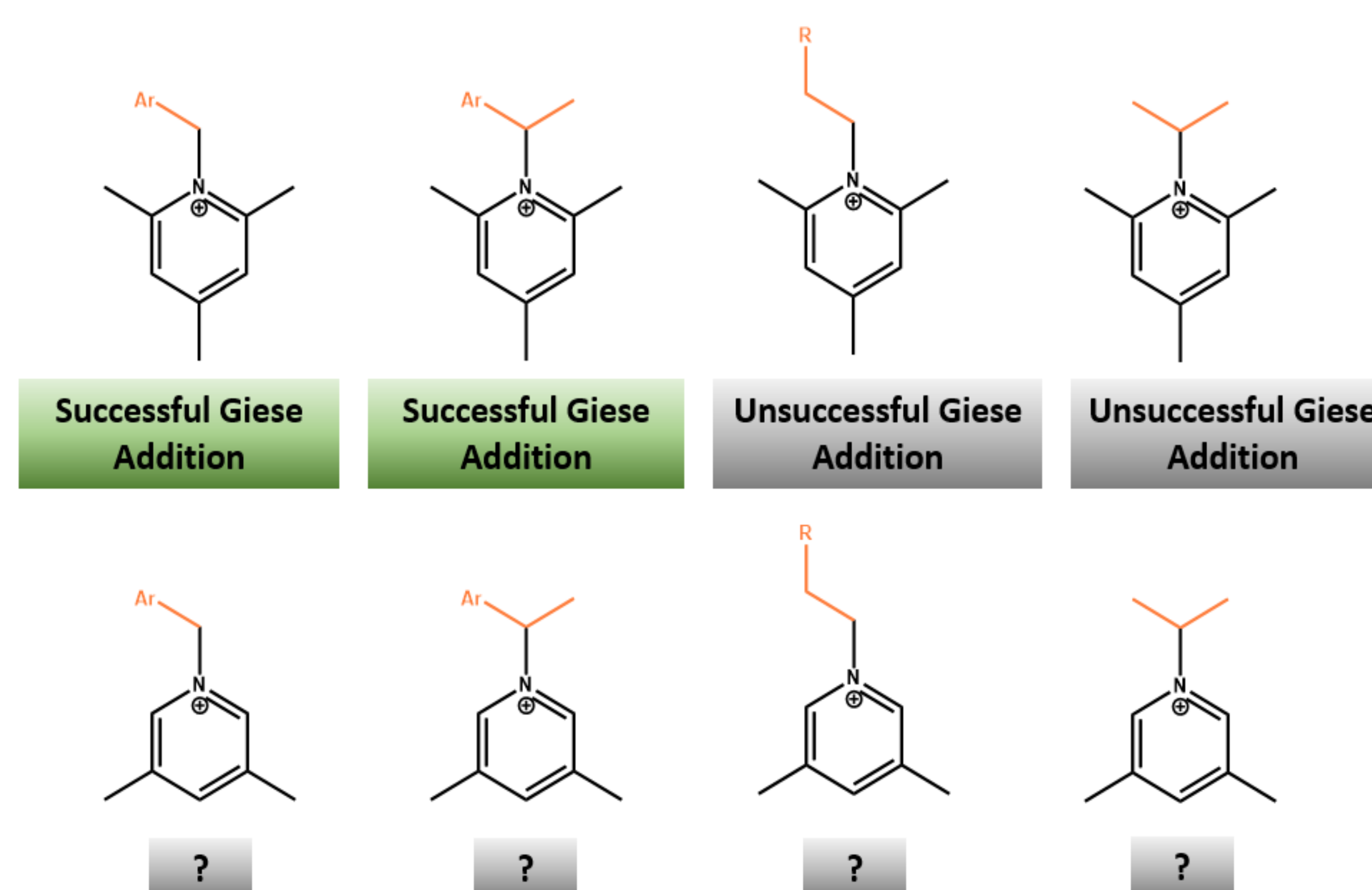
A. Scope of collidinium salt



The Search for Redox-Active Salts

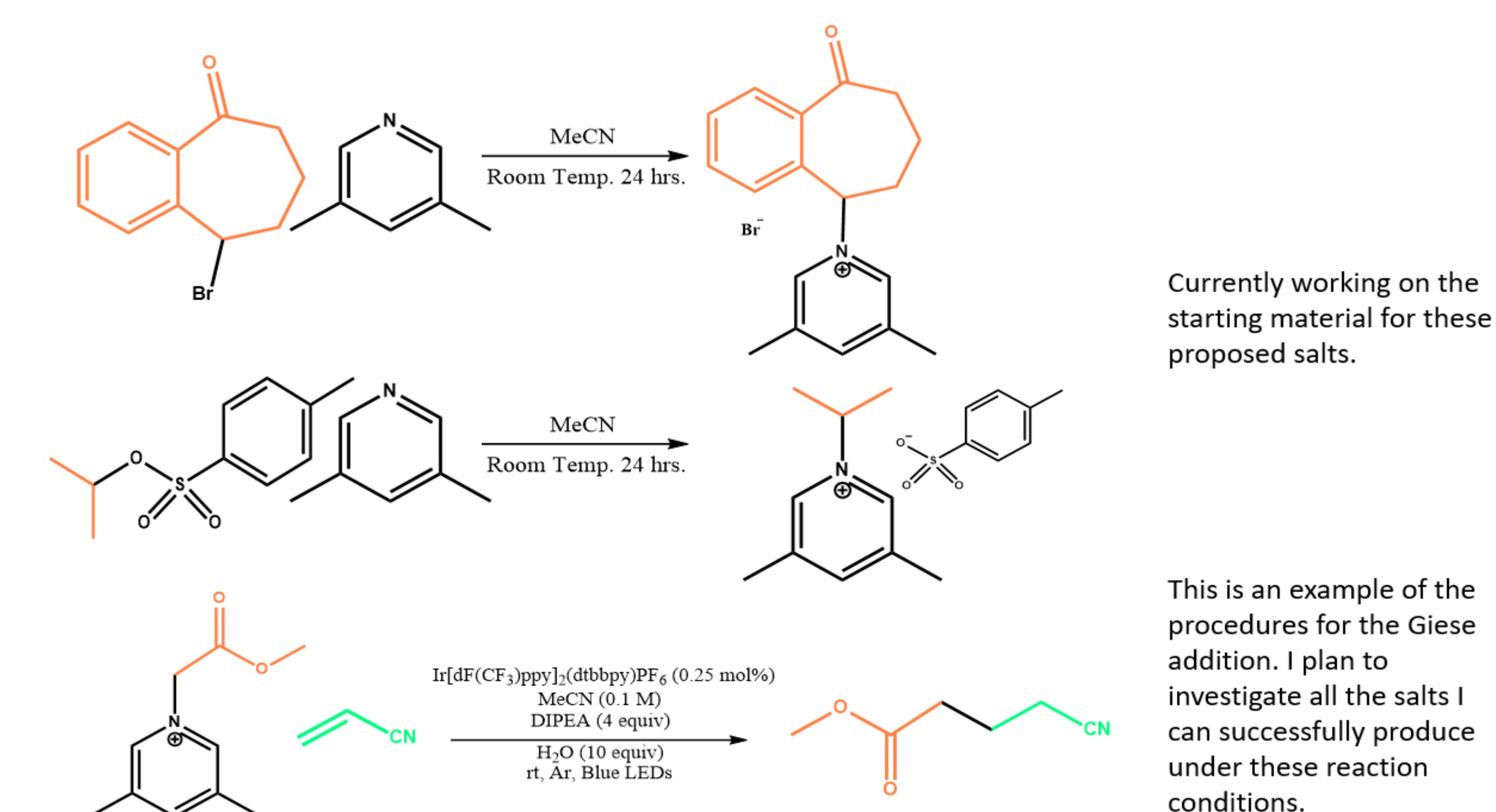


Lutidinium vs. Collidinium Salts



Reduced steric demand of lutidine expected to increase nucleophilicity while still preventing pyridine functionalization. This could enhance our ability to form the salts *in situ*.

Proposed Reactions Moving Forward



References

Coupling Photocatalysis and Substitution Chemistry to Expand and Normalize Redox-Active Halides
Manjula D. Rathnayake and Jimmie D. Weaver
Organic Letters 2021 23 (6), 2036-2041
DOI: 10.1021/acs.orglett.1c00173