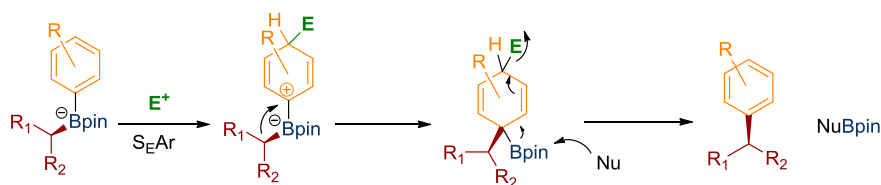
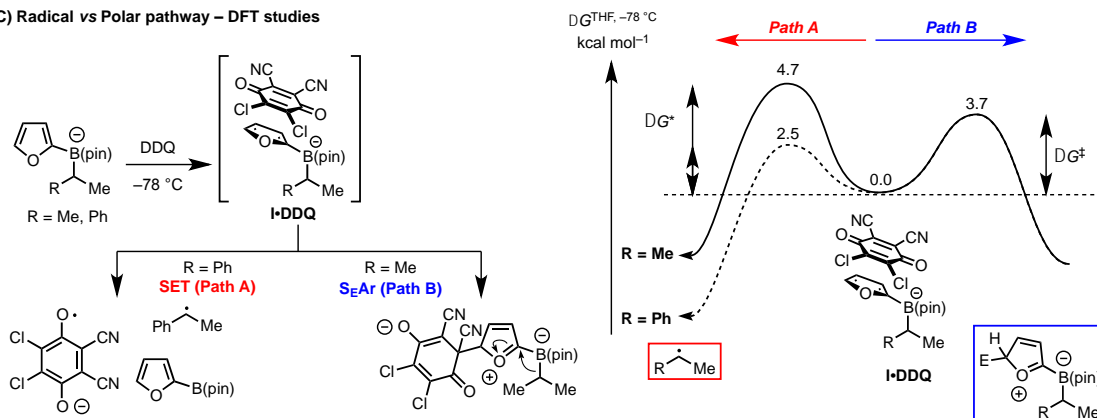


Scheme 2: Cross-coupling reaction between furan ring and an enantioenriched secondary boronic ester using DDQ

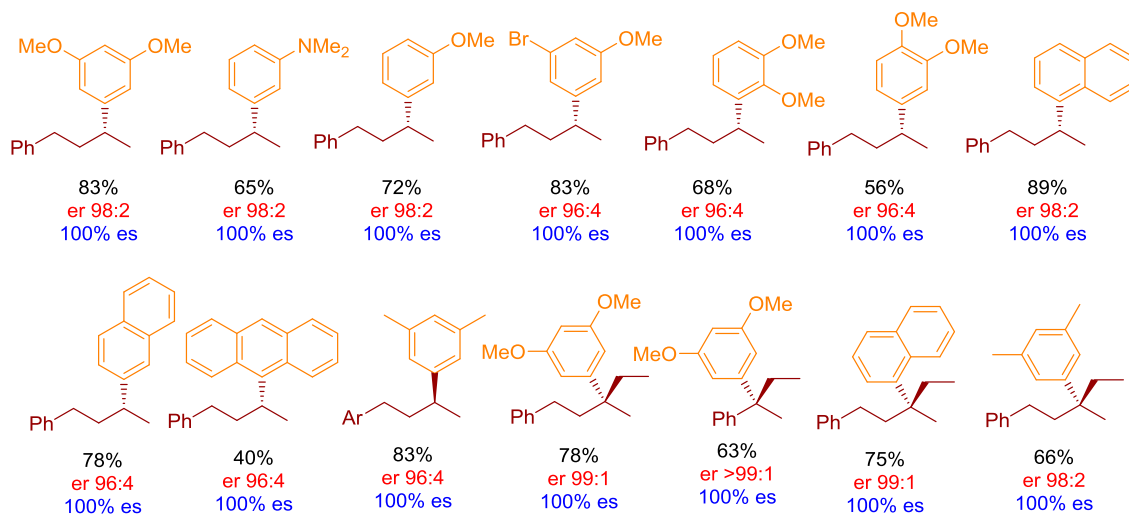


Scheme 3: Mechanism of the reaction using an electrophile

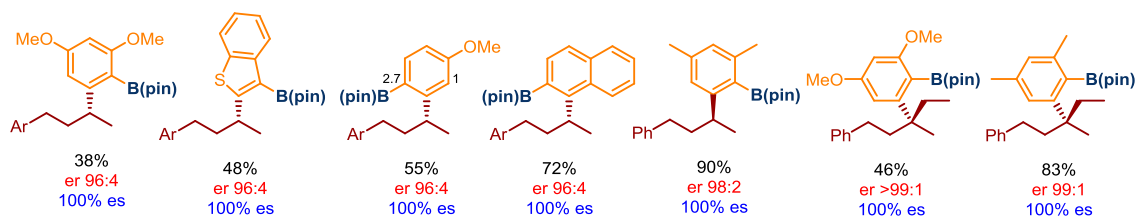
C) Radical vs Polar pathway – DFT studies



Scheme 4: Computational studies towards understanding the mechanism. Different energetic pathways between radical and polar pathways



Scheme 5: Summary of substrate scope of aromatic rings.



Scheme 6: Boron incorporation substrate scope