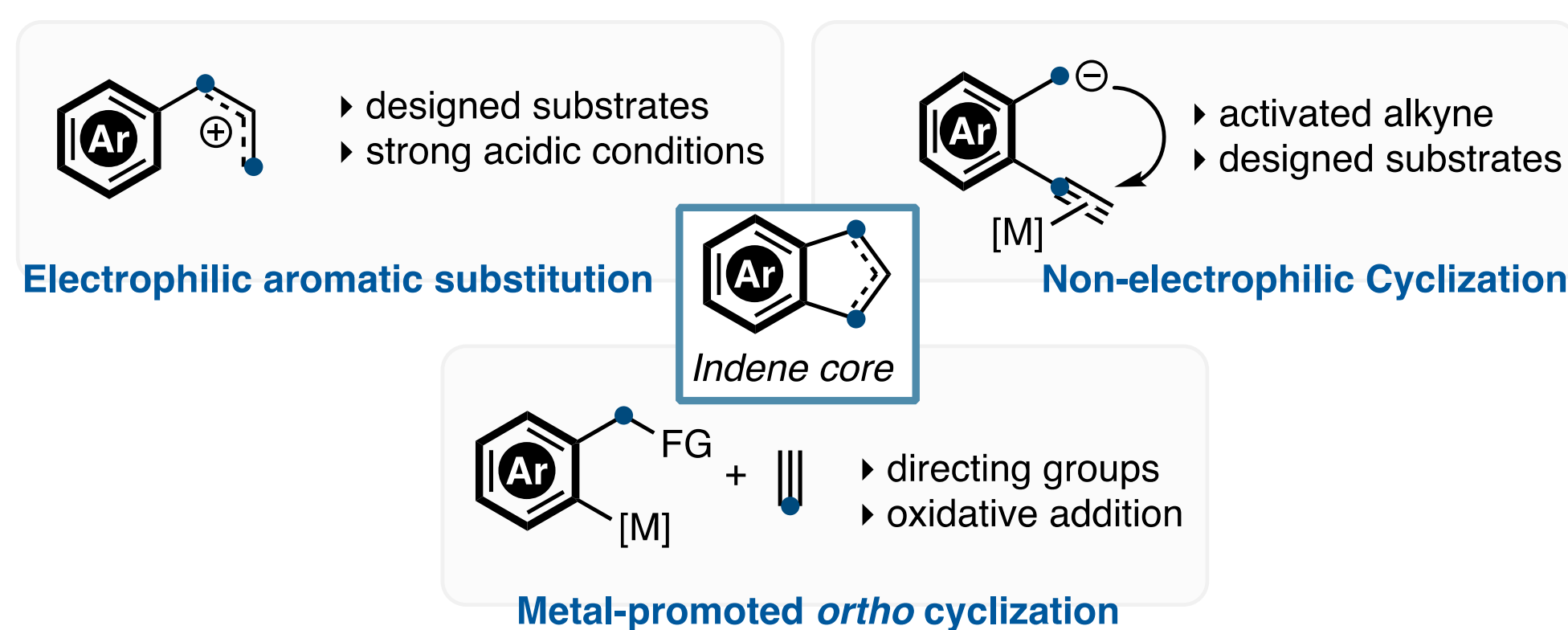
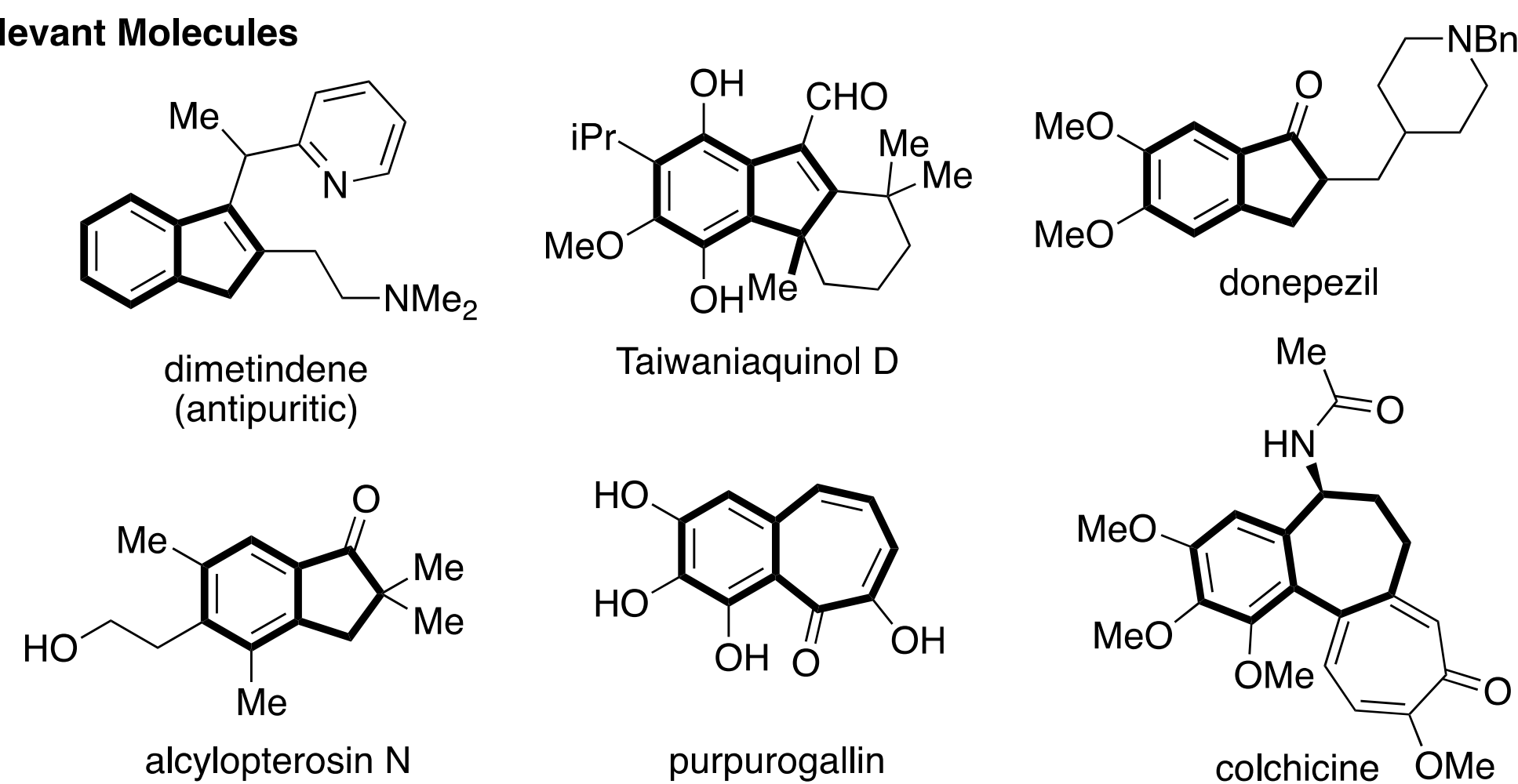


Introduction

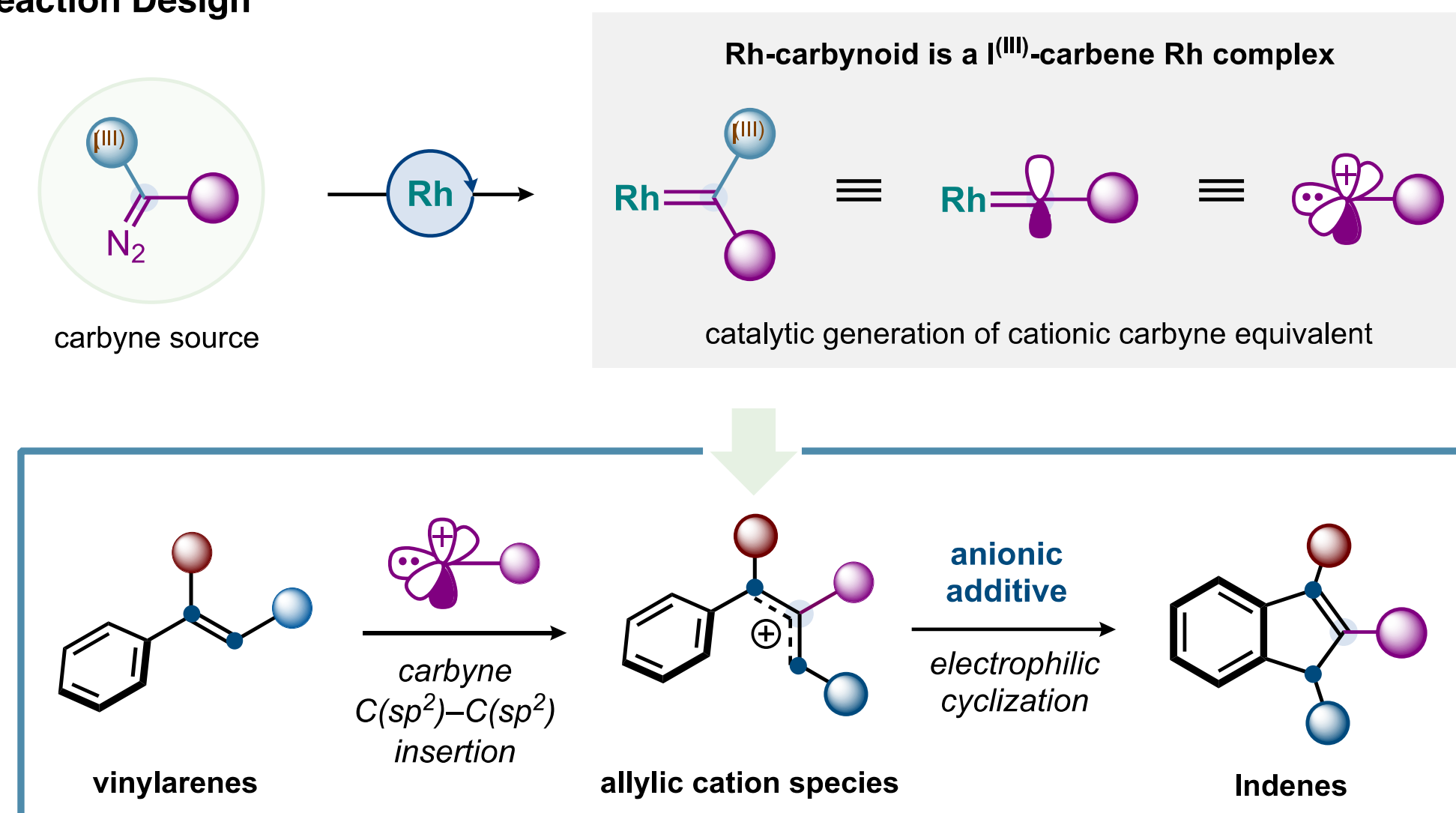
State-of-the-art



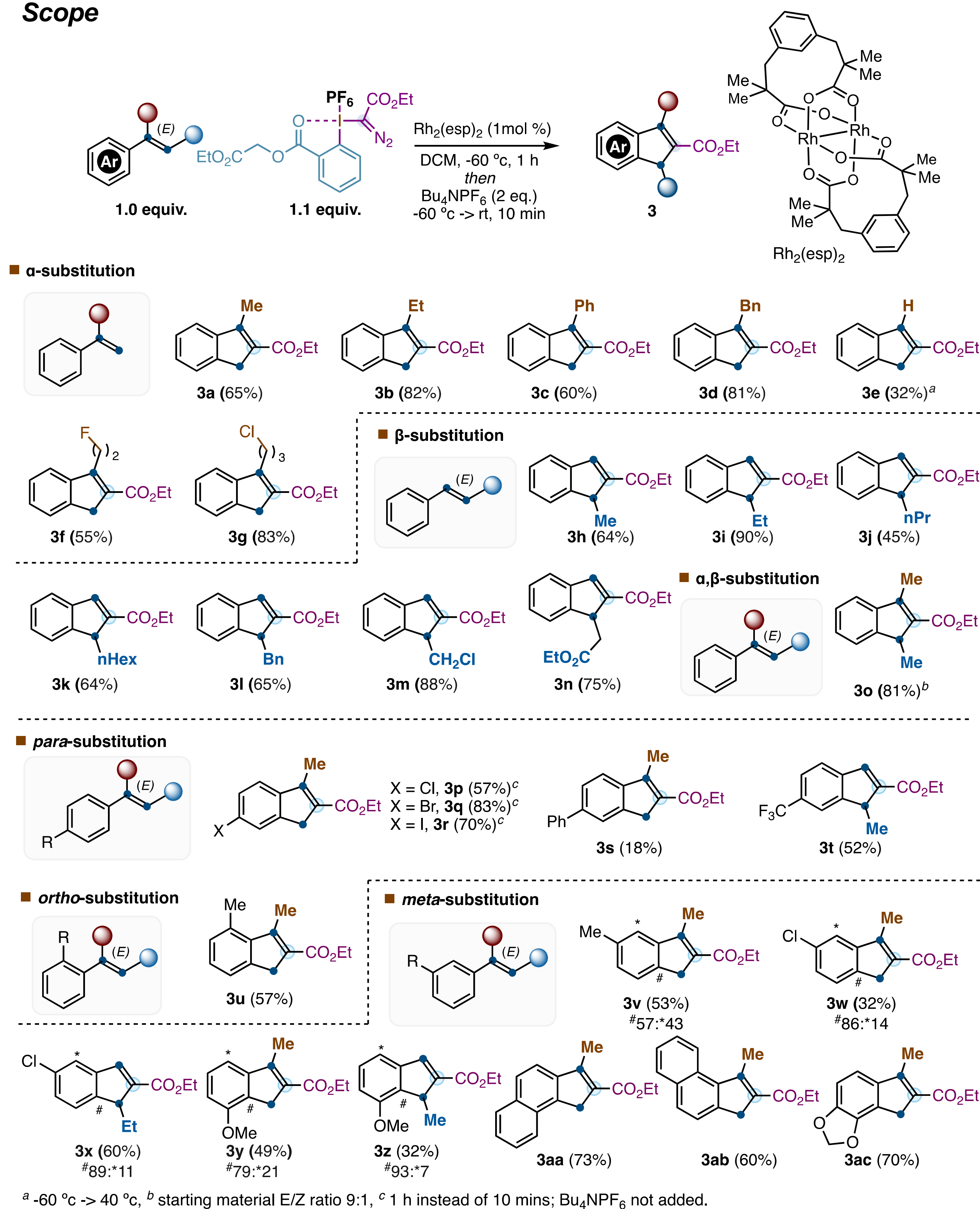
Relevant Molecules



Reaction Design

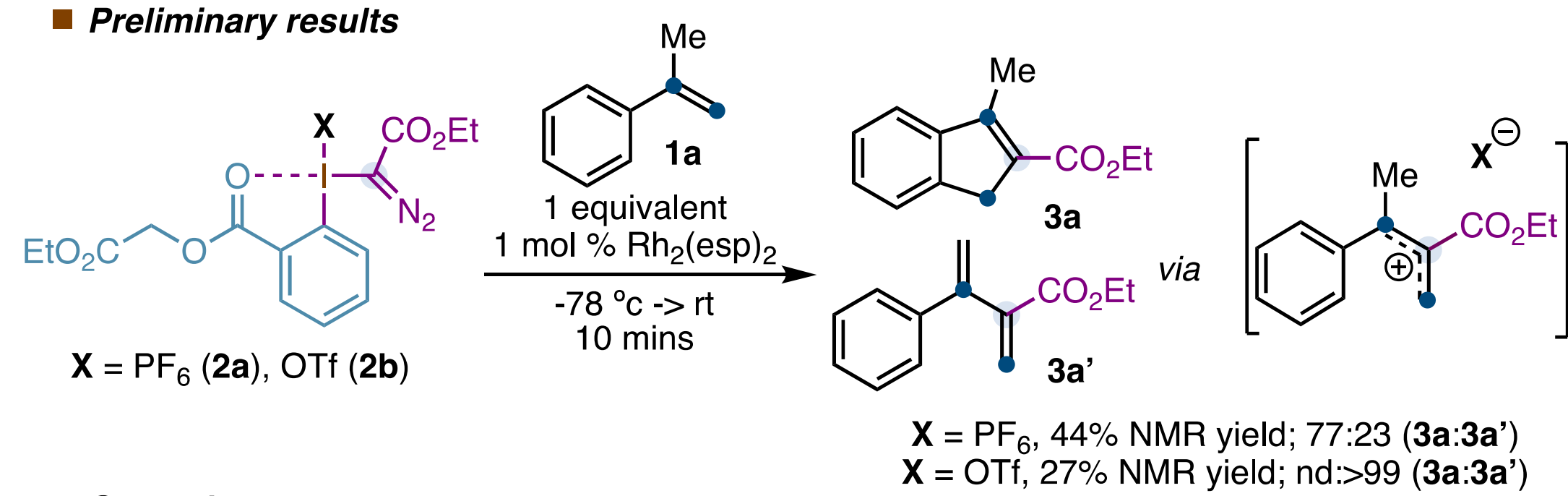


Scope

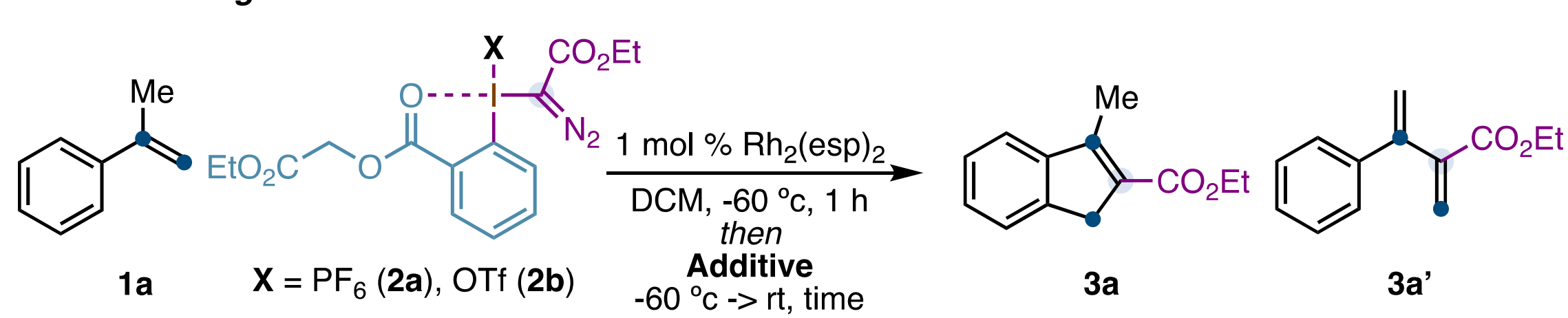


Optimization studies

Preliminary results

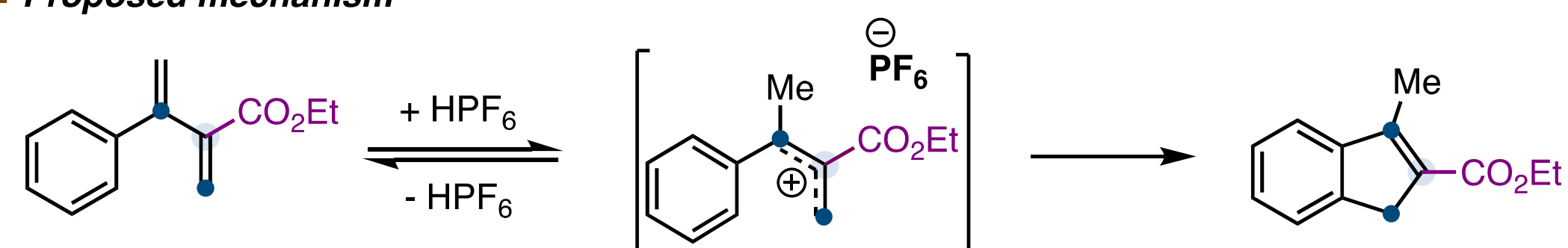


Screening

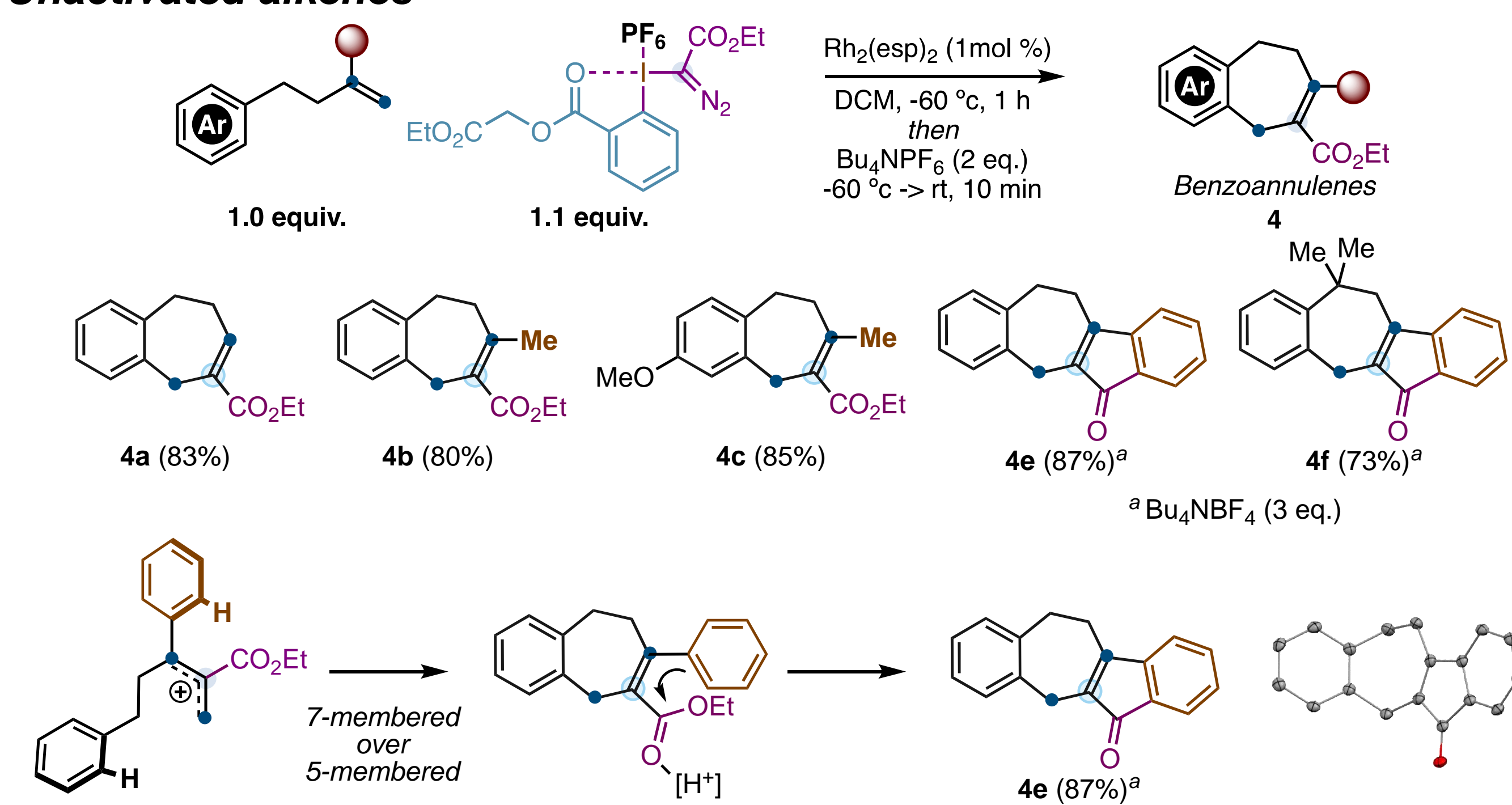


X	Additive	time	3a:3a'	NMR yield (3a)
2a	-	10 mins	77:23	34%
2a	-	1 h	>99:1	54%
2a	TBAPF ₆ (20 mol %)	1 h	>99:1	64%
2a	TBAPF ₆ (1 equiv.)	1 h	>99:1	72%
2b	TBAPF ₆ (1 equiv.)	1 h	>99:1	30%
2a	TBAPF ₆ (2 equiv.)	1 h	>99:1	75%
2a	TBAPF ₆ (2 equiv.)	10 mins	>99:1	75%

Proposed mechanism



Unactivated alkenes



Electron-withdrawing group effect

