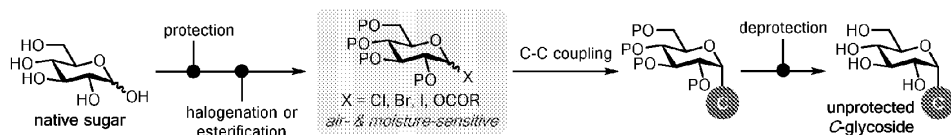


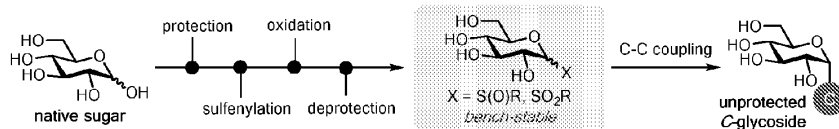
a Current multi-step strategies for the chemical synthesis of unprotected C-glycosides

C-glycosylation via glycosyl halides or esters



• Lengthy sequence • Excessive waste generation • Late-stage deprotection causes complications

C-glycosylation via glycosyl sulfoxides or sulfones



• Lengthy sequence • Excessive waste generation • Strong oxidants required

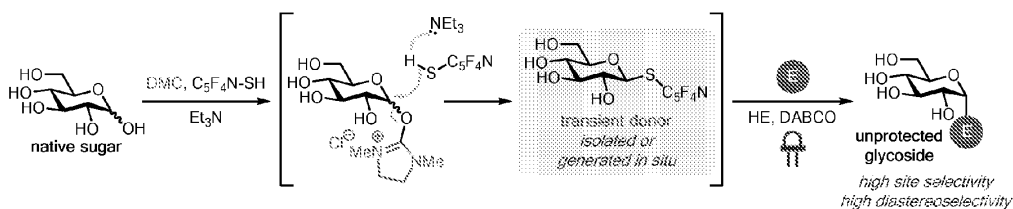
b Direct chemical glycosylation of native sugars through a transient thioglycosyl donor

Figure 1

2/5

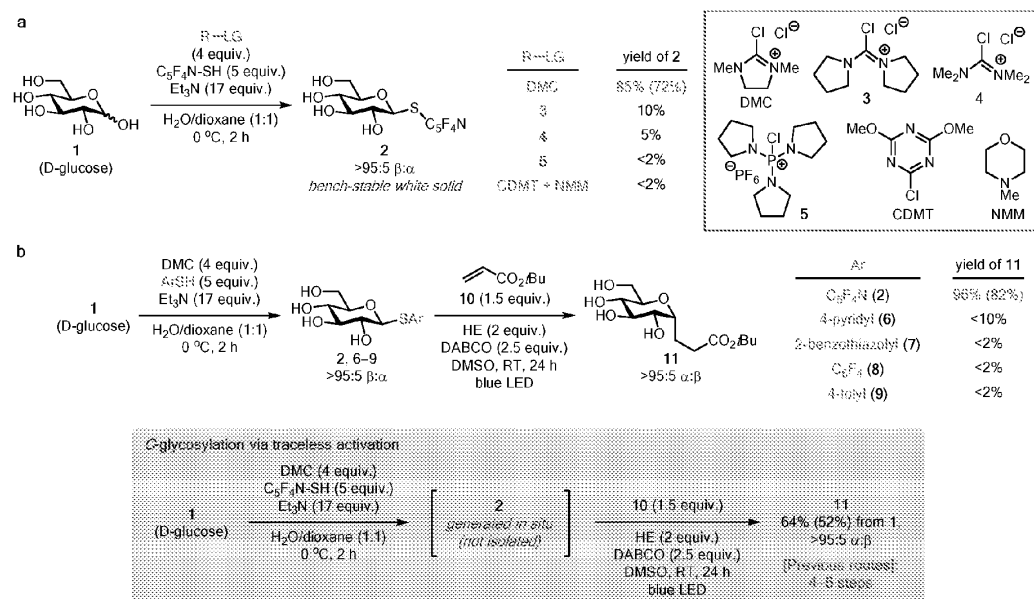


Figure 2

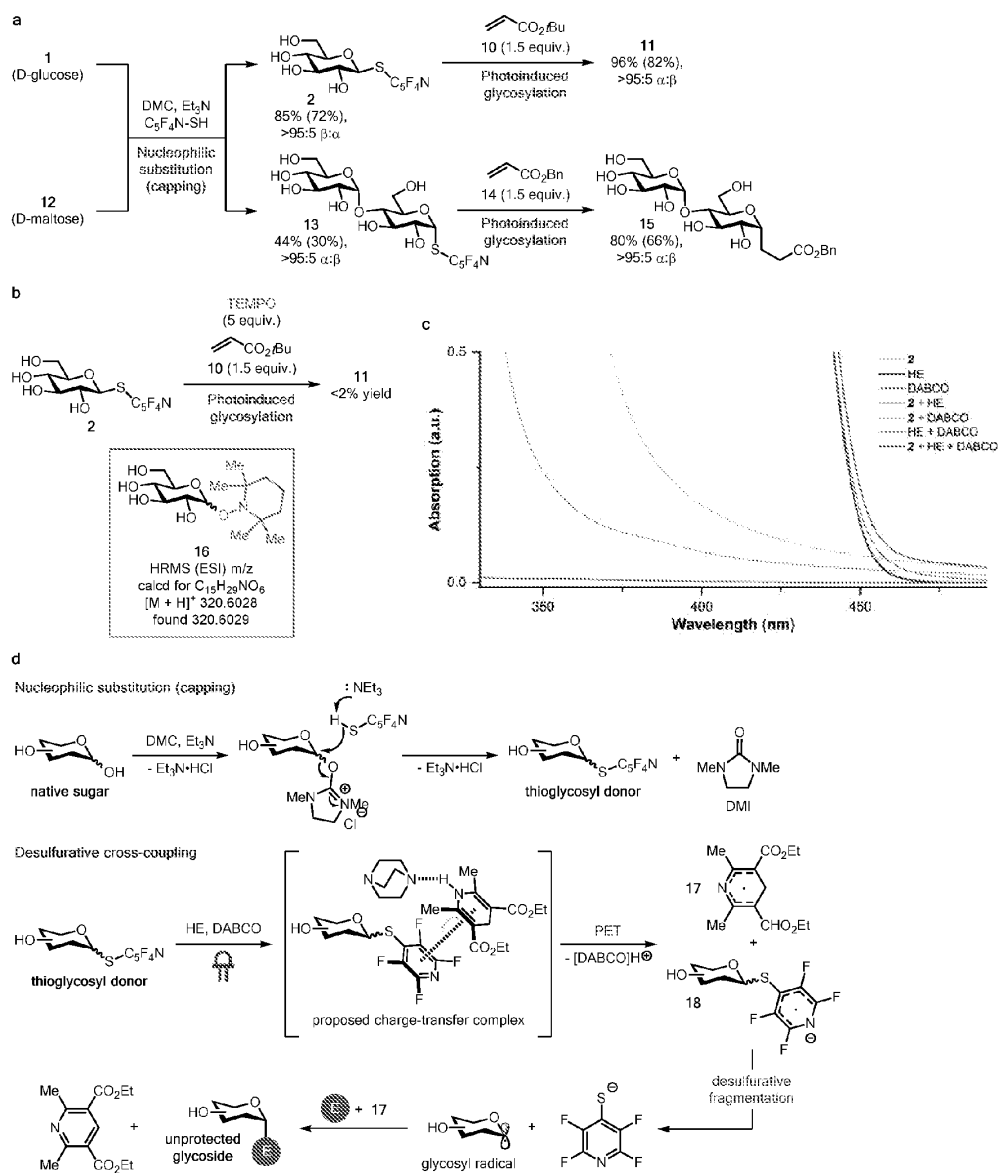


Figure 3

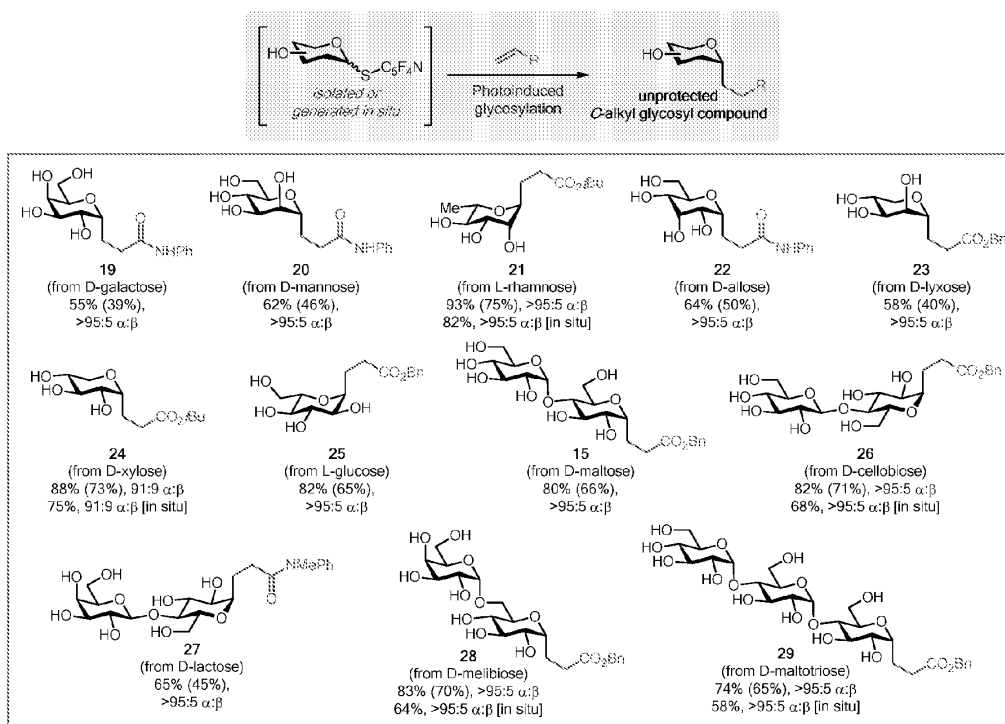


Figure 4

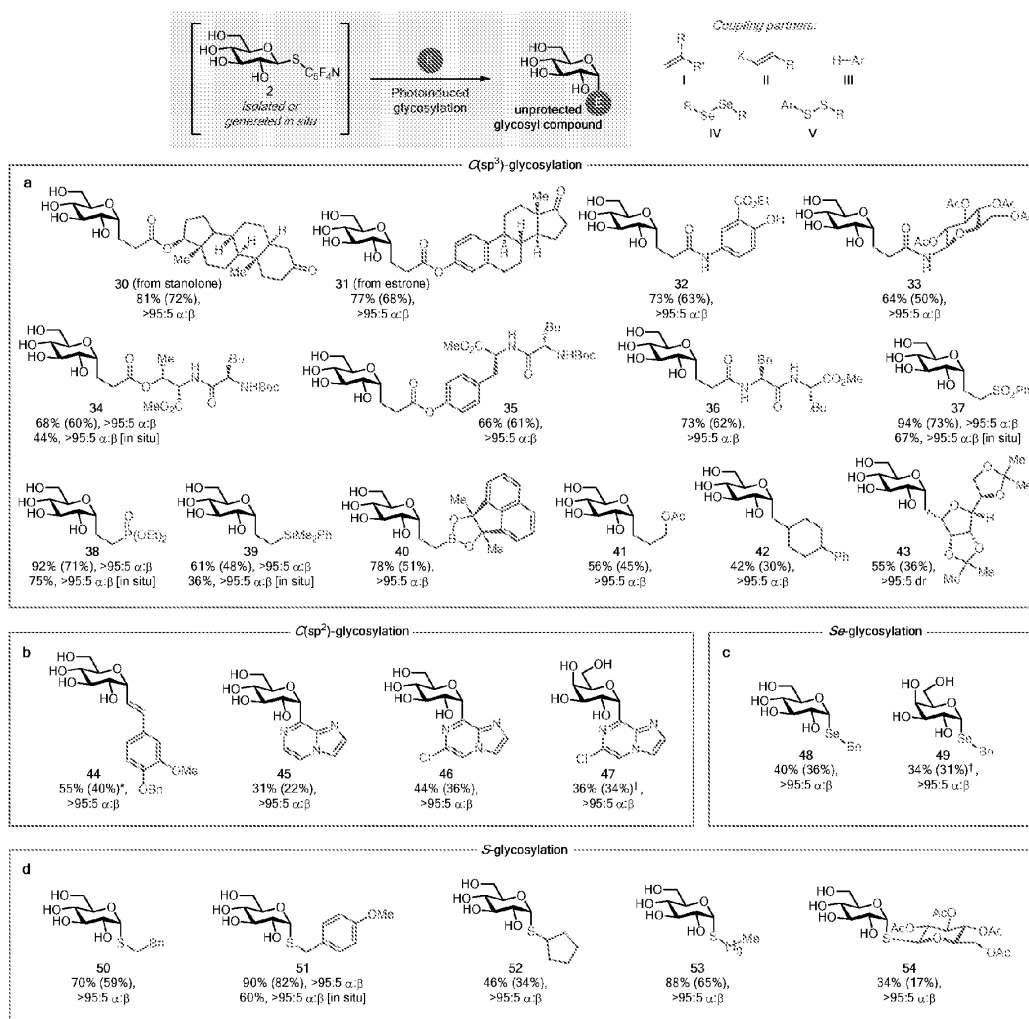


Figure 5