**O-Glycosylation of Unprotected Peptides**

**Significance:** A number of glycosylated natural products and synthetic glycopeptides can be found in important biochemical probes and therapeutic agents. The authors have developed an efficient phenolic O-glycosylation of small molecules, unprotected tyrosine, and complex unprotected peptides in aqueous solvent.

**Comment:** The glycosylation, employing glycosyl fluoride donors and Ca(OH)$_2$, proceeds rapidly at room temperature to give high yields of the glycosylated products.