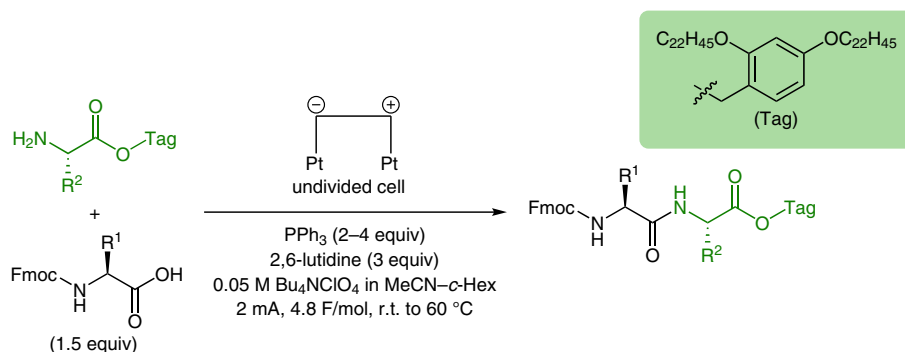
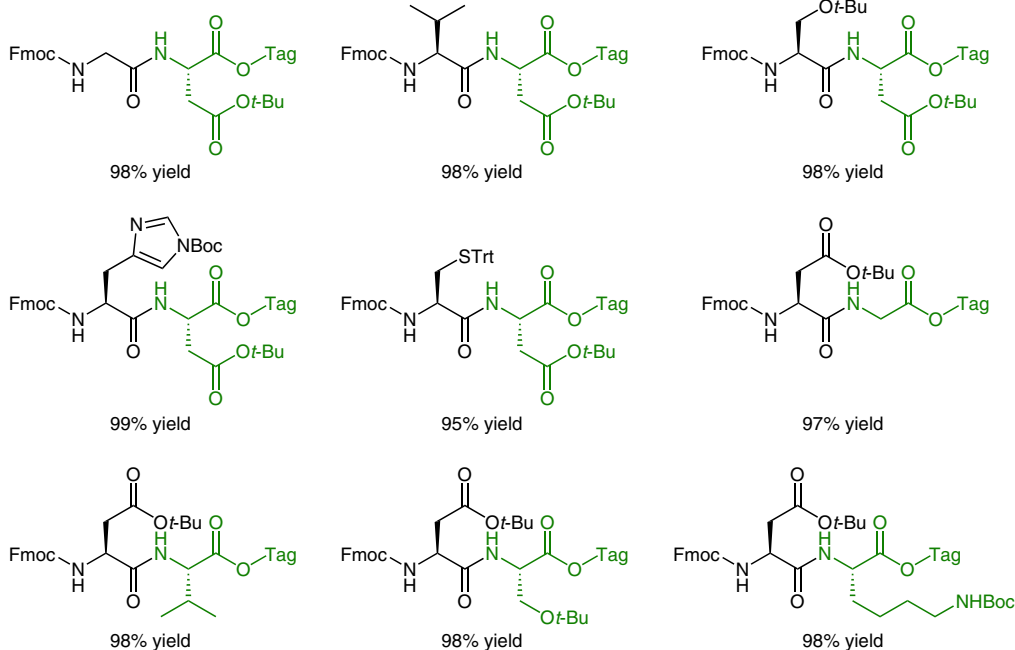


# Electrochemical Synthesis of Peptides Mediated by Triphenylphosphine



## Selected examples:



**Significance:** Peptides have been attracted increasing attention in the discovery of new drugs. The authors have developed an electrochemical peptide-bond forming reaction that proceeds in a biphasic system that minimizes waste derived from coupling reagents.

**Comment:** Anodic oxidation of  $\text{Ph}_3\text{P}$  generates a radical cation that serves as the coupling reagent by activating the carboxylic acid. The  $\text{Ph}_3\text{P}=\text{O}$  by-product can be recovered and recycled. This triphenylphosphine-mediated peptide-bond-formation reaction under electrochemical conditions gave a variety of peptides in excellent yields.