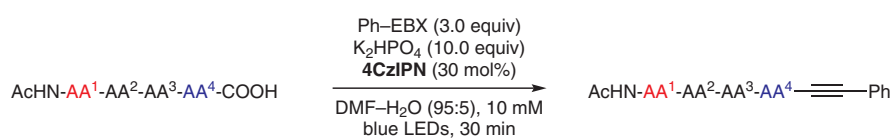
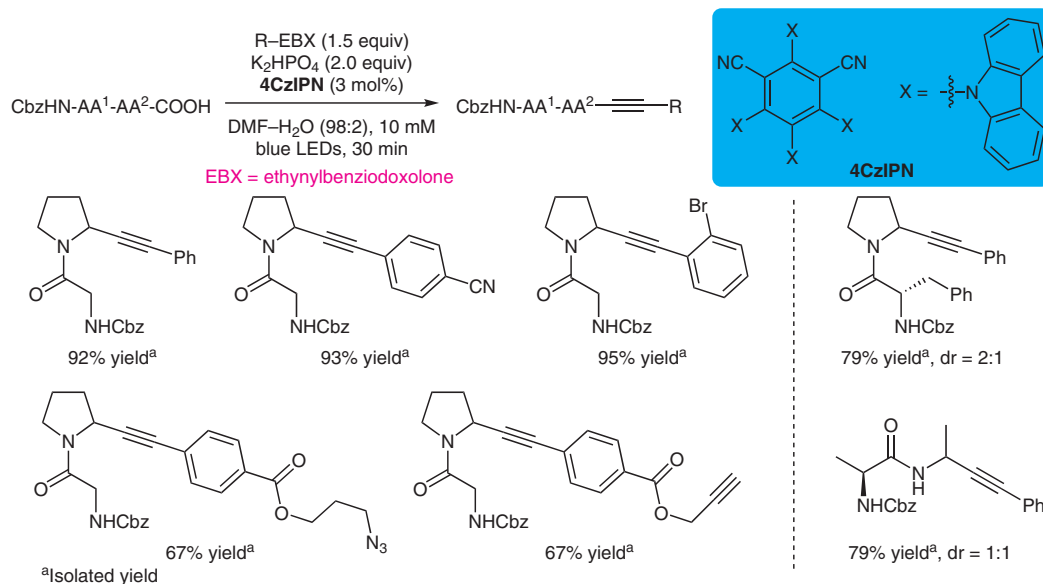
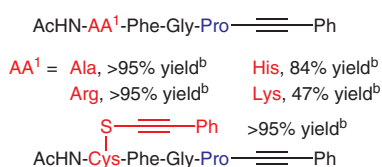


Photoredox-Catalyzed Decarboxylative Alkynylation of Peptides



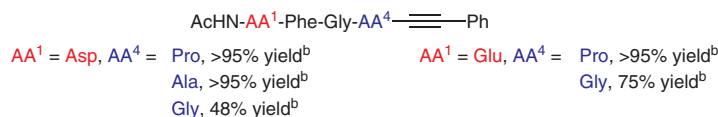
A) Scope at the N-terminus



B) Scope at the C-terminus



C) Internal selectivity: C-terminus vs side chain



^bYield measured by HPLC as the ratio of the area of the product over remaining starting material and possible side products at 214 nm

Significance: This paper provides a decarboxylative strategy for the alkynylation of the C-terminus of peptides, starting from free carboxylic acids. C-Terminal selectivity can be achieved in the presence of carboxylic acid side chains, and a broad range of functional groups are tolerated in the reaction system.

Comment: The authors have developed a metal-free decarboxylative alkynylation of the C-terminus of peptides. The reaction proceeds rapidly and cleanly and might be useful for modifying peptides.