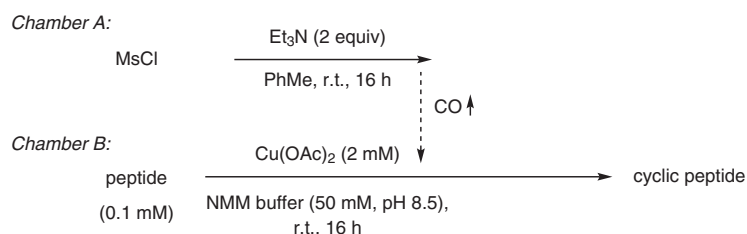
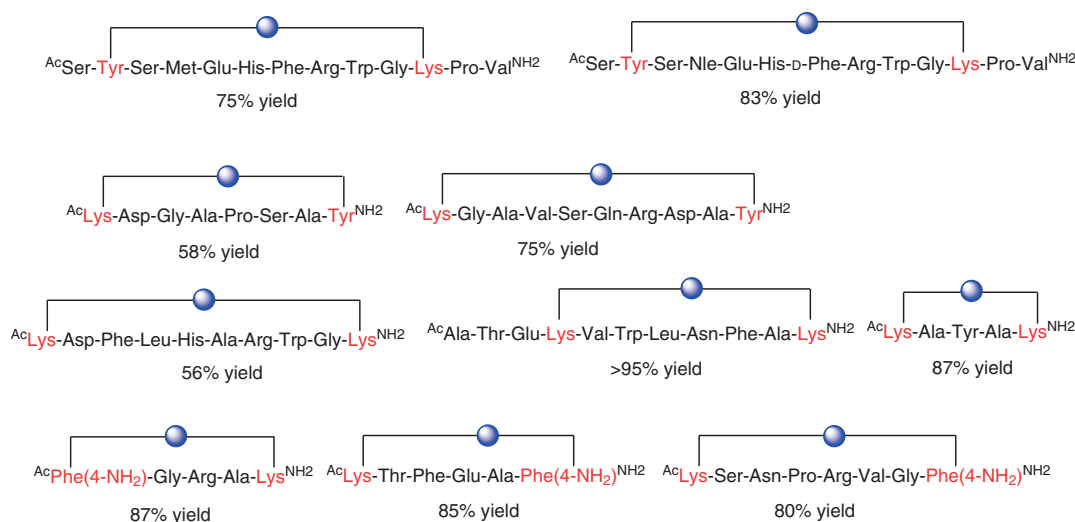


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E. MOROSAN, M. R. JONES, H. XIAO, Z. T. BALL* (RICE UNIVERSITY, HOUSTON, USA)
Selective Macrocyclization of Unprotected Peptides with an ex situ Gaseous Linchpin Reagent
Angew. Chem. Int. Ed. **2024**, e202405344 DOI: 10.1002/anie.202405344.

Peptide Cyclization at Side Chain of Lys-Lys, Lys-Tyr, and Lys-Phe(4-NH₂)



Selected examples:



Significance: Cyclic peptides have received increasing attention due to their improved stability and cell permeability, compared to linear peptides. The authors have established a cyclization at the side chain via carbonylation using in situ generated CO.

Comment: The cyclization proceeded at the side chain of Lys-Lys, Lys-Tyr, and Lys-Phe(4-NH₂) regardless of the position of the complex peptide chain in good yields by the help of Cu catalysis.