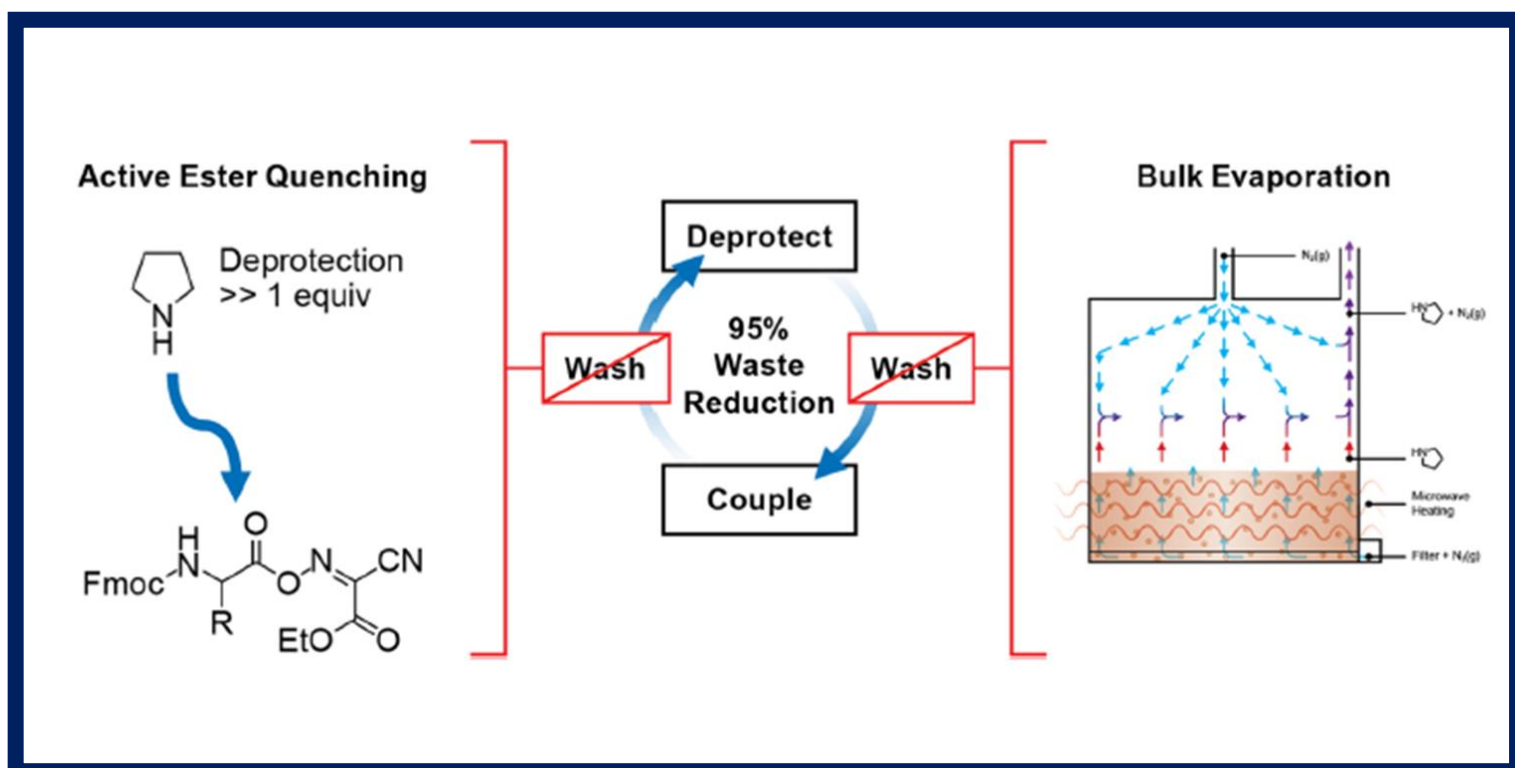


Innovations in Sustainable Peptide Production

Increased global demand for peptide therapeutics has put a renewed emphasis on improving the efficiency and sustainability of peptide production. This presentation will highlight workflow and methodological improvements for high-throughput peptide synthesis (96-well plates), enabling more efficient access to longer sequences at higher purities. In addition, recent improvements¹⁾ in microwave peptide synthesis related to the total elimination of all washing steps after each cycle (resulting in a massive waste reduction) will be highlighted, with application to both R&D and production scale synthesis. Finally, the use of elevated temperatures for HPLC purification (using a novel integrated heating system) to enable both improved purity and recovery as well as improved access to greener solvents such as ethanol will be demonstrated.

1)Nat. Commun. 2023, 14, 8168



2024.10.30 (水) 12:00~13:00

CEM Japan 株式会社

〒108-0074 東京都港区高輪2-18-10

TEL: +81-(0)3-5793-8542

FAX: +81-(0)3-5793-8543

URL: <http://www.cemjapan.co.jp>

E-mail: Info.jp@cem.com

演者 CEM Corporation
Colin Simpson