Y. WENG*, X. DING, J. C. A. OLIVEIRA, X. XU, N. KAPLANERIS, M. ZHU, H. CHEN, Z. CHEN, L. ACKERMANN* (ZHEJIANG UNIVERSITY OF TECHNOLOGY, HANGZHOU, P. R. OF CHINA AND GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN, GERMANY)
 Peptide Late-Stage C(sp³)-H Arylation by Native Asparagine Assistance without Exogenous Directing Group
Chem. Sci. **2020**, *11*, 9290–9295, DOI: 10.1039/d0sc.03830j.

Palladium-Catalyzed C(sp³)-H Arylation of Peptides Assisted by Unmodified Asparagine

Selected examples:

Significance: Late-stage modification of peptides has emerged as an invaluable method in synthetic chemistry. The authors report a C(sp³)-H arylation of peptides by a palladium-catalyzed reaction with internal asparagine (Asn) as a directing group.

Comment: The site-selective C(sp³)-H arylation proceeded smoothly at the N-termini of di-, tri-, or tetrapeptides, assisted by the unmodified side chain of Asn, without any exogenous directing group.

SYNFACTS Contributors: Hisashi Yamamoto, Tomohiro Hattori
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