S. BAZZI, A. H. MOHAMED, D. RYZHAKOV, J. GHOUILEM, M. A. BENIDDIR, V. GANDON\*, S. MESSAOUDI\* (UNIVERSITÉ PARIS-SACLAY AND INSTITUT POLYTECHNIQUE DE PARIS, PALAISEAU, FRANCE)

Diastereoselective Anomeric C(sp³)–H Cyclization Towards the Design of New Cyclophane-Braced Glycopeptides *Angew. Chem. Int. Ed.* **2024**, DOI: 10.1002/anie.202418057

## Palladium-Catalyzed Late-Stage Macrocyclization for the Synthesis of Cyclophane-Braced Glycopeptides

**Significance:** Macrocyclic peptides have gained tremendous attention in peptide drug discovery. In this article, the authors have developed a palladium-catalyzed macrocyclization by selective C(sp³)–H arylation of the anomeric bonds for the synthesis of cyclophane-braced glycopeptides.

**Comment:** A series of macrocyclic cyclophane-braced glycopeptides has been synthesized in good to moderate yields by a palladium-catalyzed site-selective anomeric C(sp³)–H cyclization approach. This protocol showcases the efficiency of a palladium-catalyzed C–H activation strategy for the synthesis of unnatural cyclic peptides.

Category

**Peptide Chemistry** 

Key words

late-stage functionalization palladium catalysis macrocyclization glycopeptides



SYNFACTS Contributors: Hisashi Yamamoto, Isai Ramakrishna Synfacts 2025; 21(02), 207 Published online: 28.01.2025 DOI: 10.1055/a-2497-0651; Reg-No.: H01625SF