

Environmental Science: Atmospheres

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Fundamental questions
Elemental answers





Showcasing research from Professor Moses' laboratory, Cold Spring Harbor Laboratory, New York, USA.

Modular synthesis of functional libraries by accelerated SuFEx click chemistry

Accelerated SuFEx Click Chemistry (ASCC) is a powerful method for coupling aryl and alkyl alcohols with SuFEx-compatible functional groups. With its hallmark favorable kinetics and exceptional product yields, ASCC streamlines the synthetic workflow, simplifies the purification process, and is ideally suited for discovering functional molecules. We showcase the versatility and practicality of the ASCC reaction as a tool for the late-stage derivatization of bioactive molecules and in the array synthesis of sulfonate-linked, high-potency, microtubule targeting agents (MTAs) that exhibit nanomolar anticancer activity against multidrug-resistant cancer cell lines.

As featured in:



See John E. Moses *et al.*, *Chem. Sci.*, 2024, 15, 3879.