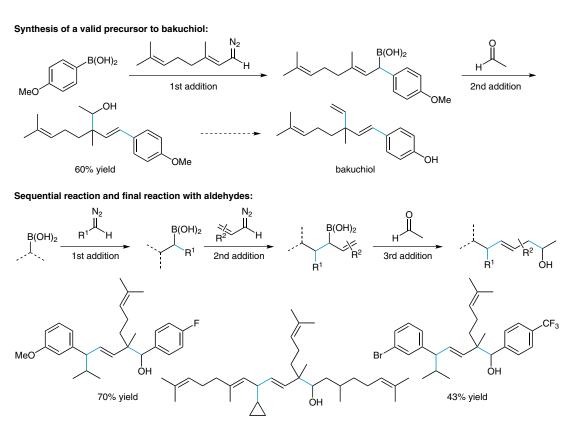
C. BATTILOCCHIO,* F. FEIST, A. HAFNER, M. SIMON, D. N. TRAN, D. M. ALLWOOD, D. C. BLAKEMORE, S. V. LEY* (UNIVERSITY OF CAMBRIDGE AND PFIZER WORLDWIDE MEDICAL CHEMISTRY, CAMBRIDGE, UK) Iterative Reactions of Transient Boronic Acids Enable Sequential C–C Bond Formation *Nature Chem.* **2016**, *8*, 360–367.

Sequential C–C Bond Formation via Allylic and Benzylic Boronic Acids



73% yield

Significance: Allylic and benzylic boronic acids, prepared in situ from flow-generated diazo compounds and stable boronic acids, were used in sequential C–C bond formation reactions. For example, the sequential reaction of (4-methoxyphenyl)boronic acid with a flow-generated diazo compound and acetaldehyde gave a precursor of the natural product bakuchiol in 60% yield from a single operation.

Comment: The authors have recently reported the reaction of arylboronic acids with flow-generated diazo compounds (*Chem. Sci.* **2015**, *6*, 1120). The current paper describes the sequential formation of up to three C–C bonds.

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Polymer-Supported Synthesis

Key words

flow chemistry

C–C bond formation

boronic acids

diazo compounds

iterative synthesis cascade reaction

