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

*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 aryloboronic 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.

**Category**
Polymer-Supported Synthesis

**Key words**
flow chemistry
C–C bond formation
boronic acids
diazo compounds
iterative synthesis
cascade reaction