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

**Synthesis of a valid precursor to bakuchiol:**

1. 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.

2. Sequential reaction and final reaction with aldehydes:

   - 1st addition: Reaction of boronic acid with a flow-generated diazo compound.
   - 2nd addition: Reaction of the adduct with another diazo compound.
   - 3rd addition: Reaction of the resulting product with an aldehyde.

**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.