**Organocatalytic C(sp³)–H Amination through Nitrenoid Transfer**

**Significance:** The Hilinski group reports a C(sp³)–H amination through a nitrenoid transfer catalyzed by iminium salt A. The reaction proceeds in moderate to high yields, and the method is applicable to several natural products having other functional groups.

**Comment:** In contrast to reported nitrenoid-transfer reactions catalyzed by transition metals, the authors developed an organocatalytic variant of the transformation. They proposed the diaziridinium salt as critical intermediate, which is supported by ESI-MS analysis, but not yet fully characterized. A kinetic isotopic effect study suggested C–H cleavage as the rate-determining step.

**Mechanistic studies:** Detection of a proposed intermediate:

Detection of a proposed intermediate (observable by ESI-MS)

**KIE study:**

Detection of a proposed intermediate (observable by ESI-MS)

\[
k_H/k_D = 2.5
\]

Selected examples:

- **64% yield**
- **37% yield**
- **55% yield**
- **44% yield**
- **47% yield**
- **36% yield**
- **71% yield**
- **56% yield**
- **37% yield**
- **69% yield**
- **64% yield**
- **69% yield**
- **36% yield**
- **37% yield**
- **56% yield**
- **71% yield**

**SYNFACTS Contributors:** Benjamin List, Nobuya Tsuji

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