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:

**KIE study:**

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\frac{k_H}{k_D} = 2.5
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