Organocatalytic \( \text{C(sp}^3)\text{–H Amination through Nitrenoid Transfer} \)

Significance: The Hilinski group reports a \( \text{C(sp}^3)\text{–H Amination through a nitrenoid transfer catalyzed by iminium salt A.} \) 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 \( \text{C–H cleavage as the rate-determining step.} \)