Simple Synthesis of Substituted Polyheteroaromatic Compounds

**Significance:** Highly substituted polyheteroaromatic compounds have attracted considerable interest for potential use as functional and luminescent materials. The authors report the one-pot synthesis of benzo(isoquinolino)naphthyridines by rhodium(III)-catalyzed multiple C–H activation and annulation starting from (Z)-N-hydroxybenzamidines and disubstituted alkynes. The reported compounds are obtained in high yields and can contain an array of substituents.

**Comment:** The authors found that an intermediate product can be isolated after one alkyne addition, and that the intermediate product can be reacted with different alkynes to further vary the substituents on the final product. Interestingly, the method can also be applied to di(2-thienyl)alkyne to give product 2 in 60% yield.

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