## Mechanism Speculation XXXVII Recommended by Yu-Qing Bai

## N-lodosuccinimide-Mediated Synthesis of Benzo-Fused Bisimidazoles Enabled by a One-Pot Tandem Reaction of Fluorinated Propargyl Amidines

Li, S.; Lei, L.; Feng, B.; Liu, X.; Xian, L.; Li, Y. J. Org. Chem. 2023, 88, 4101

## **Control Experiment**

$$F_{3}C \xrightarrow{Ph} + H_{2}N \xrightarrow{H_{2}N} + H_{2}N \xrightarrow{NIS (2.0 \text{ equiv})} F_{3}C \xrightarrow{Ph} N \xrightarrow{NIS (2.0 \text{ equiv})} GH_{3}CN, 40 °C \text{ air, 3 h}} GH_{2}N \xrightarrow{A} G$$

## **Proposed Mechanism**