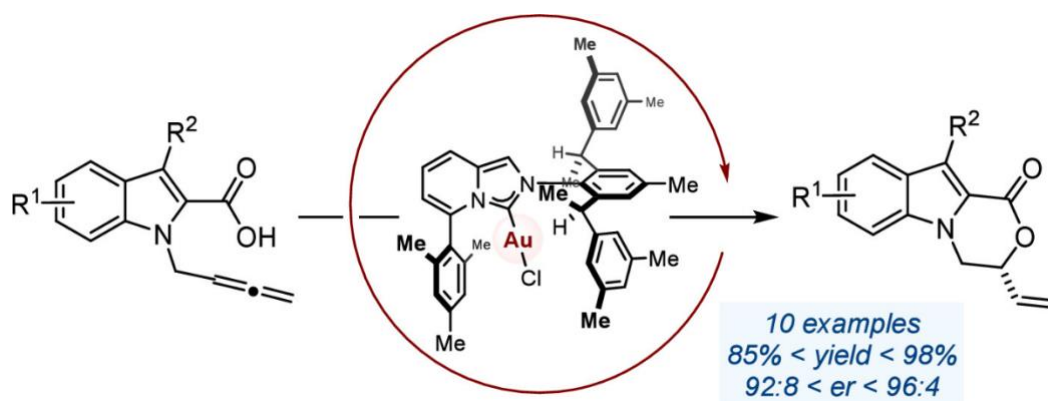


## Chiral Imidazo[1,5-*a*]pyridine-based Ligands for the Au-Catalyzed Enantioselective Intramolecular Hydrocarboxylation of Allenes

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As part of our program aimed at designing chiral ligands for use in selective catalysis,<sup>1-3</sup> we report herein the synthesis of gold(I) complexes supported by imidazo[1,5-*a*]pyridine-based ligands featuring chiral aniline moieties at N(2).<sup>4-8</sup> The synthesis is short, efficient, and modular, allowing for precise control over the steric and electronic properties of the coordination sphere of the metal.



**Figure 1.** Au-Catalyzed Intramolecular Hydrocarboxylation of Allenes.

The design of these atypical chiral ligands was validated in the Au(I)-catalyzed enantioselective intramolecular hydrocarboxylation of allenes, which furnished tricyclic N(1)–C(2)-fused oxazinoindolones in high yield and unprecedented levels of enantiocontrol.<sup>9,10</sup>

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