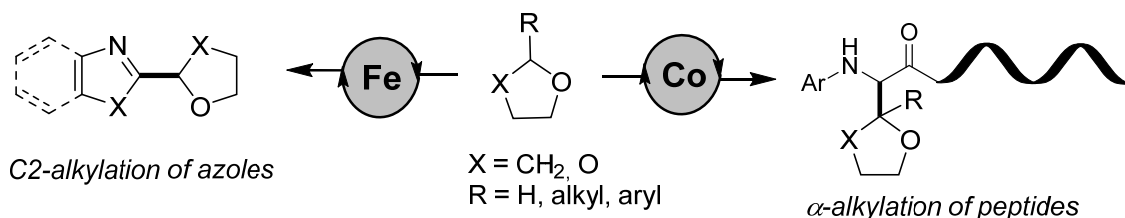


# BASE METAL CATALYSTS IN C–H FUNCTIONALIZATION

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Direct functionalization of molecules containing C(sp<sup>3</sup>)–H and C(sp<sup>2</sup>)–H bonds stands out today as a highly relevant area in modern organic chemistry.<sup>[1]</sup> Despite the advances realized, the majority of the methodologies rely on the use of expensive precious metal catalysts and hence the implementation of abundant first-row transition metals represents a challenging task of utmost synthetic importance in the field of sustainable development.<sup>[2]</sup> Our primary goal is not to simply replace existing catalysts but to discover new reaction chemistry that takes advantage of the unique electronic properties of inexpensive metals such as iron<sup>[3]</sup> and cobalt.<sup>[4]</sup> In this communication we will describe our latest developments in the conversion of feedstock substrates such as cyclic ethers into medicinally significant compounds upon iron- and cobalt-catalyzed oxidative couplings.<sup>[5]</sup>



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