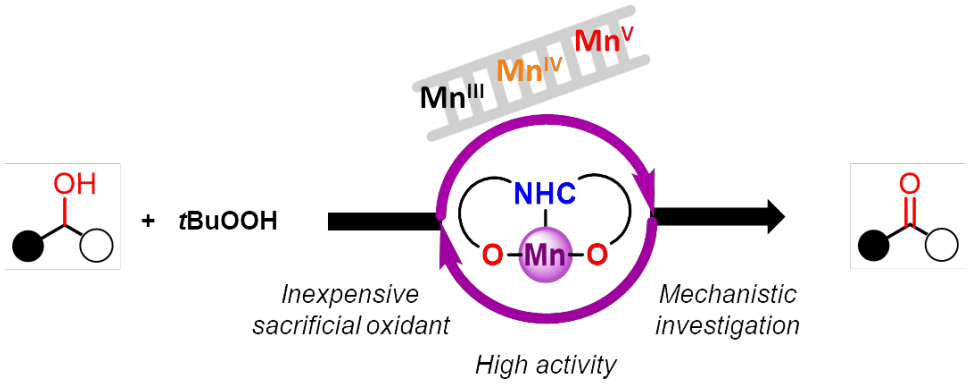
Efficient alcohol oxidation with novel manganese(III) complexes with bis(phenolate)-NHC ligands

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Oxidation chemistry plays a critical role in the synthesis of pharmaceuticals and value-added products, such as perfumes. A catalytic approach based on Earth-abundant metal complexes and inexpensive oxidants such as peroxides currently represents the most attractive strategy to perform this transformation.[1] Our group recently prepared a new class of N-heterocyclic carbene ligands bearing phenolate moieties and their corresponding metal complexes, investigating the potential benefit of the electronic flexibility of the carbene fragment in catalytic applications involving redox events.[2,3] Here, we decorated imidazole- and triazole-derived carbenes with phenolate substituents[4,5] to access Mn(III) complexes, which efficiently catalyze the oxidation of alcohols in the presence of *t*BuOOH as terminal oxidant. In addition, we will present the versatility of the catalytic system and mechanistic investigations in order to disclose the nature of the active species.



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