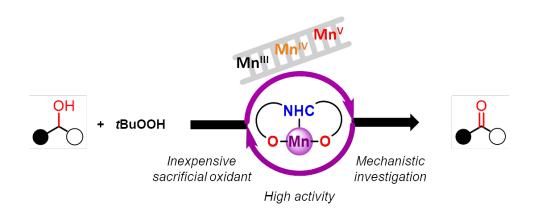
## Efficient alcohol oxidation with novel manganese(III) complexes with bis(phenolate)-NHC ligands

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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. 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. Here, we decorated imidazole- and triazole-derived carbenes with phenolate substituents to access Mn(III) complexes, which efficiently catalyze the oxidation of alcohols in the presence of tBuOOH 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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