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Synthesis of 5-membered heterocyclic systems by the pummerer reaction

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The Pummerer reaction has been studied for many years as a powerful method to form C-Nu bonds, its applications in total synthesis of natural products has been recently reviewed showing its great potential. We recently published a new method to obtain oxazolines by Pummerer chemistry, and the goal of the current study is to extend the scope of this methodology to the synthesis of other heterocyclic systems. The results include approaches to pyrroles, oxazoles, thiazoles and the application of the methodology to the total synthesis of siphonazole and muscoride A.

Biography

Diego Gamba-Sanchez obtained his PhD in 2010 from the Ecole Polytechnique at Palaiseau. After one year as a postdoctoral associate in the laboratory of Prof. Thorsten Bach, he moved back to Colombia and started his independent career at the Universidad de los Andes in Bogotá. His research focused on new methodologies using Pummerer chemistry and the development of synthetic routes to natural products.

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