M. F. Z. J. AMARAL, A. A. BAUMGARTNER, R. VESSECCI, G. C. CLOSOSKI*
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 Directed Metalation of 1-Ester-Substituted Indolizines: Base/Electrophile-Controlled Regioselective Functionalization
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Directed Metalation of Ester-Substituted Indolizines

Selected examples:

Significance: Clososki and co-workers report a directed C–H functionalization of 1-ester-substituted indolizines using several organometallic bases. The metalation takes place under mild conditions, and the reaction with different electrophiles allows the synthesis of a number of polyfunctional indolizines in good yields.

Comment: Lithium amides favor C-5 functionalization, while TMPMgCl·LiCl gives C-2 substituted derivatives as major products by *ortho* metalation. The authors found that in the case of functionalization with TMPMgCl·LiCl, the reactivity of the electrophile plays a key role in the regioselectivity of the reaction.

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Category
Metal-Mediated Synthesis

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