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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

**Key words** 

metalation magnesium indolizines

