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Original articles

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A concise formal stereoselective total synthesis of (−)-swainsonine

Xiao-Gang Wang[a], Ai-E Wang[a,b], Pei-Qiang Huang[a,b]

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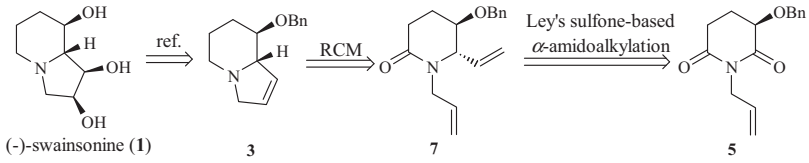

The synthesis of unsaturated indolizidine (8*R*,8a*S*)-**3**, an advanced intermediate toward the synthesis of (−)-swainsonine (**1**), has been achieved in five steps from the versatile building block (*R*)-3-benzyloxyglutarimide **5**, *via* Ley's-sulfone-based α-amidovinylation and the RCM reaction as the key steps.

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Design, synthesis and insecticidal activity of spiro heterocycle containing neonicotinoid analogs

Nan-Yang Chen, Li-Ping Ren, Min-Ming Zou, Zhi-Ping Xu, Xu-Sheng Shao, Xiao-Yong Xu, Zhong Li

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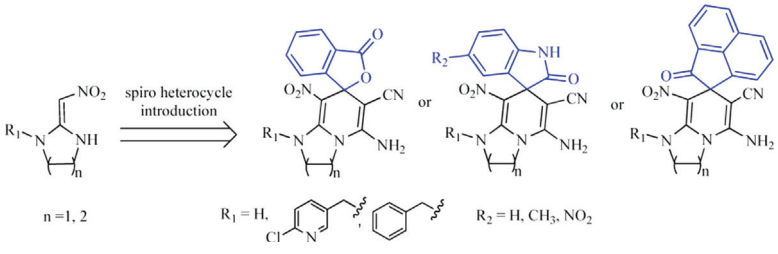

In the pursuit of neonicotinoids with spiro heterocycles, three types of novel neonicotinoids with spirobenzofuranone, spirooxindole or spiroacenaphythylenone framework were designed and synthesized.

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Determination of tetraethyl ammonium by ion-pair chromatography with indirect ultraviolet detection using 4-aminophenol hydrochloride as background ultraviolet absorbing reagent

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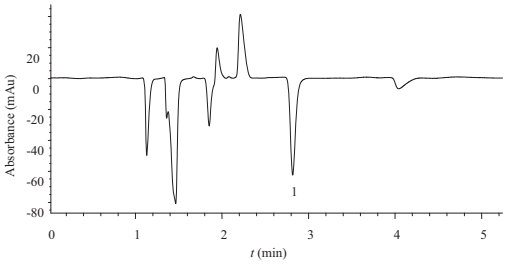

Utilizing 4-aminophenol hydrochloride as background ultraviolet absorbing reagent, the determination of tetraethyl ammonium is achieved by ion-pair chromatography with indirect ultraviolet detection.

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