

## Accepted Manuscript

Title: Synthesis and insecticidal activities of 1,8-naphthyridine derivatives

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PII: S1001-8417(17)30188-2  
DOI: <http://dx.doi.org/doi:10.1016/j.cclet.2017.05.016>  
Reference: CCLET 4086

To appear in: *Chinese Chemical Letters*

Received date: 28-2-2017  
Revised date: 1-4-2017  
Accepted date: 15-5-2017



Please cite this article as: Qing-Qing Hou, Yi-Fei Jing, Xu-Sheng Shao, Synthesis and insecticidal activities of 1,8-naphthyridine derivatives, Chinese Chemical Letters <http://dx.doi.org/10.1016/j.cclet.2017.05.016>

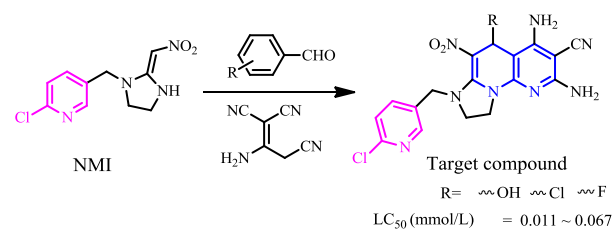
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## Graphical Abstract

Synthesis and insecticidal activities of 1,8-naphthyridine derivatives

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1,8-Naphthyridines (NAP) are biologically important scaffolds in bioactive molecules design. By hybrid of NAP with neonicotinoid core structure, nine novel NAP derivatives were synthesized and subjected to insecticidal activities evaluation. Some of the compounds showed excellent insecticidal activity against cowpea aphids (*Aphis craccivora*) with LC<sub>50</sub> values ranging from 0.011 mmol/L to 0.067 mmol/L. The results indicated that NAP can be used as insecticidal structure for further modification.

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