#### 专论与综述

### 芥子油苷在植物-生物环境关系中的作用

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芥子油苷是一类含氮、含硫的植物次生代谢物质,主要分布于白花菜目的十字花科植物。芥子油苷及 其降解产物具有多种生化活性,近年来人们更多地关注芥子油苷代谢与其它物质代谢途径的相互联系以及与植 物生存环境的相互作用。介绍了芥子油苷及其分布、芥子油苷-黑芥子酶系统以及由芥子油苷介导的植物对昆 虫、病原体的防御作用和植物与植物之间的化感作用的研究概况。

芥子油苷,生物环境,植物防御,化感作用

分类号 Q142, Q945. 79, Q948

## The role of glucosinolates in plant-biotic environment int eractions

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Abstract Glucosinolates are nitrogen-and sulfur-containing natural products found mainly in the f 本文作者相关文章 amily Brassicaceae, order Capparales. The glucosinolates and their metabolites have showed pot ent biological activities. Recently, the relationship between glucosinolates and other compounds bi osynthesis and the interaction between glucosinolates and environment have been paid more atten tion. We introduced chemical structures and the distribution of glucosinolates, glucosinolate-myro sinase system, the biological processes directed by glucosinolates in plant defence on insects an d pathogen and plant chemical allelopathy.

**Key words** glucosinolates <u>biotic</u> environment <u>plant</u> defence DOI

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