

Title	Mechanism of stigmasterol dealkylation in insect
Sub Title	
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Publisher	共立薬科大学
Publication year	1984
Jtitle	共立薬科大学研究年報 (The annual report of the Kyoritsu College of Pharmacy). No.29 (1984.) ,p.36- 36
JaLC DOI	
Abstract	
Notes	抄録
Genre	Technical Report
URL	https://koara.lib.keio.ac.jp/xoonips/modules/xoonips/detail.php?koara_id=AN00062898-00000029-0036

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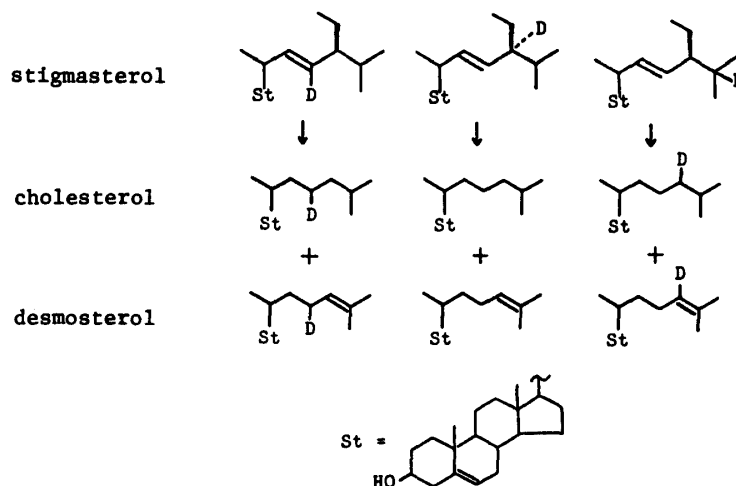
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Mechanism of Stigmasterol Dealkylation in Insect*

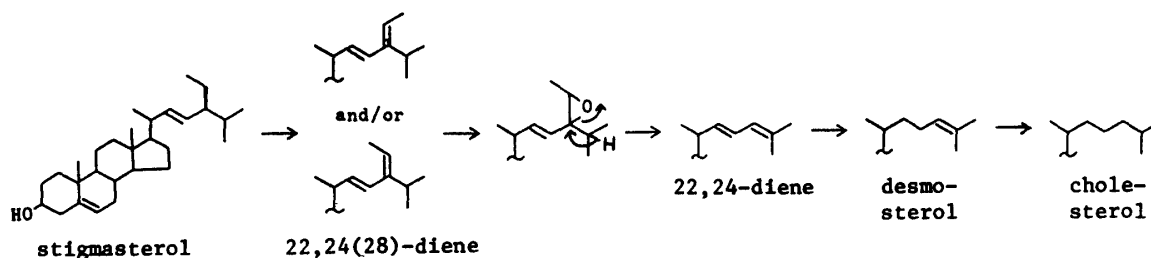
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Deuterated stigmasterols were chemically synthesized and fed to silkworm larvae. GC-MS analysis of metabolites, cholesterol and desmosterol indicates the metabolic transformations shown below, involving the migration of 25-hydrogen to C-24 position during stigmasterol dealkylation.



The 22,24(28)-dienes were shown to be converted to the 22,24-diene, desmosterol and cholesterol. All these results strongly support the mechanism depicted in the following scheme.



* 本報告は *Tetrahedron Lett.*, 25, 1501 (1984) に発表

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