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Author	藤本, 善徳(Fujimoto, Yoshinori) 木村, 美記( Kimura, Miki) 鷹巣, 彰弘( Takasu, Akihiro) Khalifa, Fathy A. M.( Morisaki, Masuo) 森崎, 益雄( Ikekawa, Nobuo) 池川, 信夫
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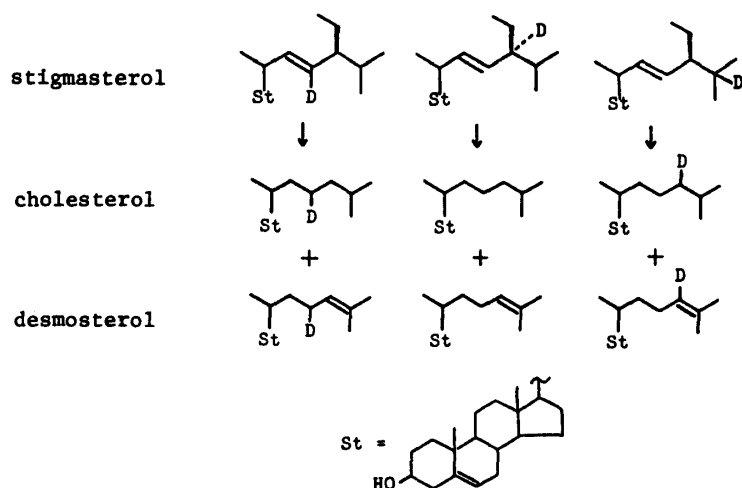
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## Mechanism of Stigmasterol Dealkylation in Insect\*

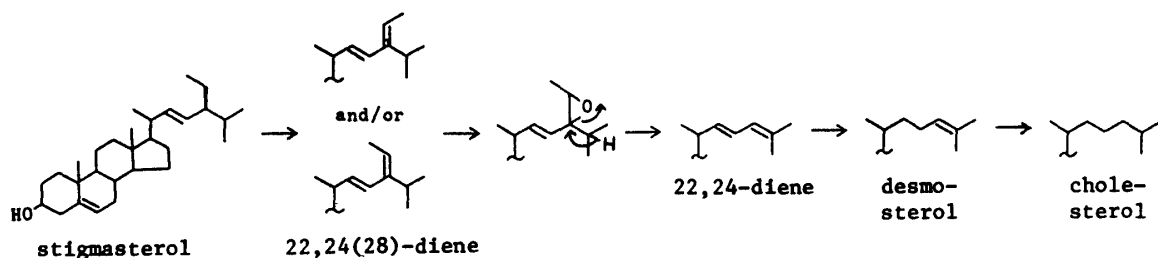
Yoshinori FUJIMOTO\*\*, Miki KIMURA\*\*, Akihiro TAKASU\*\*,  
Fathy A. M. KHALIFA\*\*, Masuo MORISAKI and Nobuo IKEKAWA\*\*

藤本善徳\*\*, 木村美記\*\*, 鷹巣彰弘\*\*, ファシー・カリファ\*\*\*,  
森崎益雄, 池川信夫\*\*

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.



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\*\* 東京工業大学理学部  
\*\*\* エジプト国, 国立カイロ大学