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Mechanism of Stigmasterol Dealkylation in Insect*

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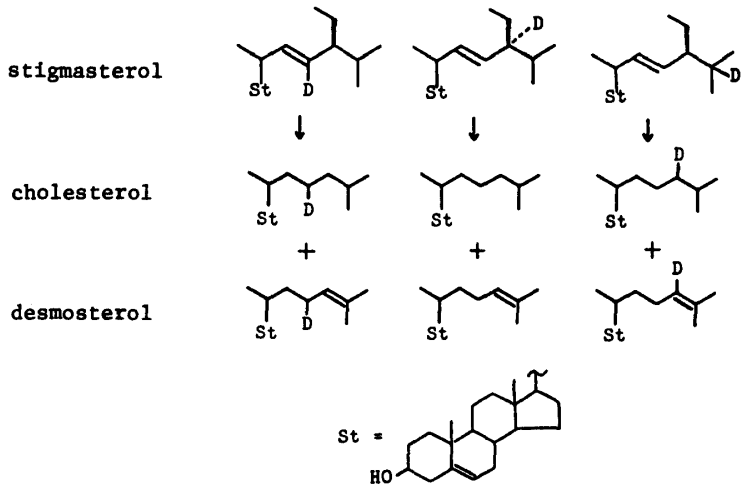
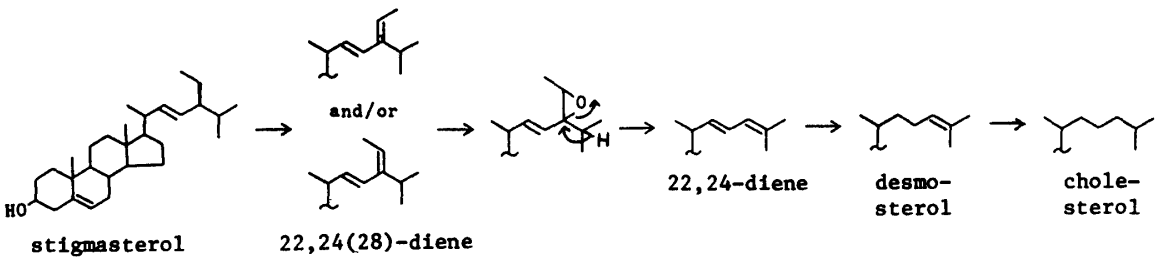
Deuterated stigmasterols were chemically synthesized and fed to silkworm larvae. GC-MS analysis of metabolites, cholesterol and desmosterol indicates the metabolic transformations shown below, involving the migration of 25-hydrogen to C-24 position during stigmasterol dealkylation.



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



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