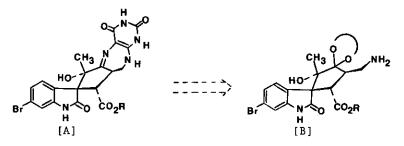
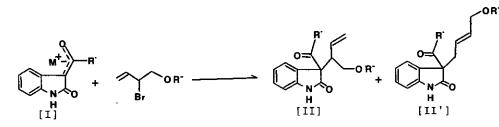
THE SYNTHESIS OF SPIRO-(CYCLOPENTANE-1,3'-OXINDOL)-DERIVATIVES

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During the course of our study on the total synthesis of neosurugatoxin



[A](R=O- β -D-xylopyranosyl-(1,5)-myoinositol) we found that the reaction of conjugate ions of 3-acyloxindole with 2-bromo-3-butene-1-ol gives a mixture of Sn2 and Sn2' substitution products ([II) and [II']) quantitatively. In this reaction the Sn2 substitution product [II] is obtained in 50% yield.



On the utilization of spiro-(cyclopentane-1,3'-oxindol)-derivative [B] as the key precursor of [A] we assembled tricyclic compound [IV], which is possibly convertible to [B](Br=H), from the Sn2 substitution product [II] using the new strategy via an interamolecular [3+2] cycloaddition.

