

THE TOTAL SYNTHESIS OF DREGAMINE AND EPI-DREGAMINE.  
A GENERAL SYNTHETIC ROUTE TO 2-ACYLINDOLE ALKALOIDS.

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The 2-acylindole alkaloids are a rather large class of natural products. They have attracted the interests of various research groups and numerous publications concerned with their structure elucidation and chemistry are available. These investigations have shown various chemical interrelationships between the 2-acylindole group, and members of the sarpagine, ajmaline and certain bisindole alkaloid families. Thus a laboratory synthesis of the 2-acylindole system, when coupled with the already known interconversions, could also encompass the syntheses of these other alkaloid families. This lecture will present our recent investigations directed at the development of a synthetic route to the 2-acylindole alkaloids

according to the general plan indicated below. These experiments have allowed the completion of the first synthesis of the dregamine series. Extensions of this approach to other members within this and other families will be discussed.

Overall plan of synthesis.

