## SYNTHESIS OF INDOLES, β-CARBOLINES AND γ-CARBOLINES USING AMINOACETALDEHYDE DIMETHYL ACETAL

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Methods will be described for converting 1,3-cyclohexanediones to 4-keto-4,5,6,7-tetrahydroindoles; indole into 1,2,3,4-tetrahydro- $\gamma$ carbolines; and 4-keto-4,5,6,7-tetrahydroindoles into 4-keto-1,2,3,4,5,6,7,8octahydro- $\beta$ -carbolines. In each case, the key ring addition step involves a reaction with aminoacetaldehyde dimethyl acetal.