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## SYNTHESIS AND REACTIONS OF 2-PENTAFLUOROPHENYL-5-/6-FLUOROINDOLES

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In our comprehensive programme to develop new biologically active fluorinated indole derivatives, we now report the synthesis and reactions of 2-pentafluorophenyl-5-/6-fluoroindoles. These indoles were prepared by Fischer-Indole synthesis using polyphosphoric acid as the cyclizing agent. 2-Pentafluorophenylindole was subjected to formylation and nitration reactions under various conditions. 5-Fluoro-2-pentafluorophenylindole was treated separately with acetic anhydride and oxalylchloride followed by morpholine to yield 3-acetyl-5-fluoro-2-pentafluorophenylindole and 5-fluoro-2-pentafluorophenylindole-3-morpholinoglyoxamide respectively. 6-Fluoro-2-pentafluorophenylindole was also treated with trifluoroacetic anhydride and dimethyformamide at 0 C yielding 3-trifluoroacetyl-6-fluoro-2-pentafluorophenylindole. All these compounds have been characterized on the basis of analytical and spectral data (IR, U.V., NMR & Mass). Screening of their antifertility and C.N.S. depressant activities are in progress