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Observations concerning the synthesis of tryptamine homologues and branched tryptamine derivatives via the borrowing hydrogen process: synthesis of psilocin, bufotenin, and serotonin

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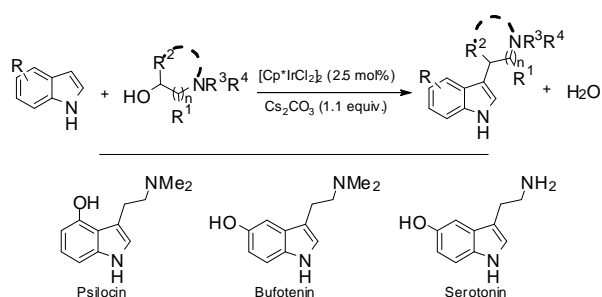
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## Hydrogen Borrowing



**Give and take:**  $[\text{Cp}^*\text{IrCl}_2]_2$  effectively catalyzed the alkylation of indole with amino alcohols to give tryptamine homologues and branched (homo)-tryptamine derivatives via the borrowing hydrogen process. Applications to the syntheses of biologically active compounds such as Psilocin, Bufotenin, Serotonin, are also described.

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