

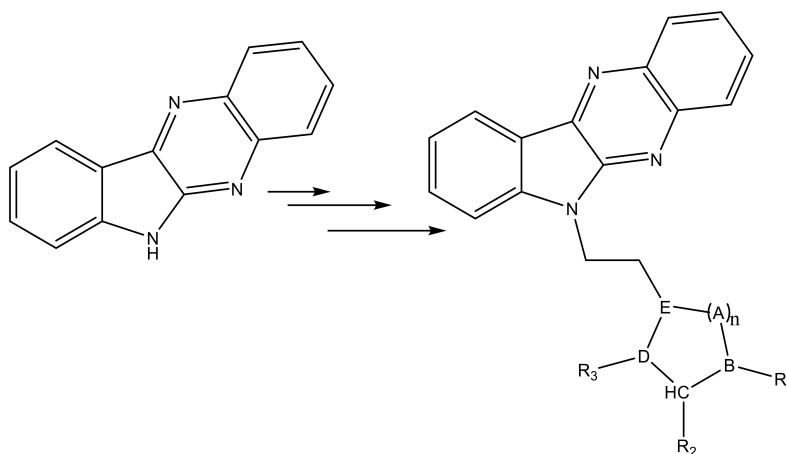
Synthesis and Characterization of Assorted Heterocycles Based 6H-indolo[2,3-*b*]quinoxaline

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Efficient methodology for the synthesis of unrecorded series of heterocycles based indolo[2,3-*b*]quinoxaline sub-structure is reported. Indolo[2,3-*b*]quinoxaline heterocycles have been synthesized by employing ethyl 3-(6H-indolo[2,3-*b*]quinoxalin-6-yl)propanoate as starting material. The precursor -H-indolo[2,3-*b*]quinoxalin-6-yl)propanehydrazide **3** was synthesized by reaction of ethyl 3-(6H-indolo[2,3-*b*]quinoxalin-6-yl)propanoate with hydrazine in refluxing ethanol.

The structures of synthesized compounds were confirmed on the basis of their elemental analyses and spectral results (IR, MS, ¹H and ¹³C NMR).



A, B, C, D = C, O, N, S

R1, R2, R3 = aliphatic, aromatic, heterocyclic

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