Syntheses of Substituted Furo- and Pyrano-[2,3-\textit{a}]carbazoles from 2-Cinnamoyl-1-hydroxycarbazoles

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Reaction of 2-cinnamoyl-1-hydroxycarbazoles \textit{2a–d}, with phenacyl bromide, mercuric acetate and H\textsubscript{2}O\textsubscript{2}/NaOH under different reaction conditions yielded 2-benzoyl-3-styryl-furo-[2,3-\textit{a}]carbazoles \textit{3a–d}, 2-benzylidene-furo-[2,3-\textit{a}]carbazol-3(10\textit{H})-ones \textit{4a–d} and 3-hydroxy-2-phenylpyrano-[2,3-\textit{a}]carbazol-4(11\textit{H})-ones \textit{5a–d}, respectively.

\textbf{Key words:} 1-Hydroxycarbazoles, Furo- and Pyranocarbazoles