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Title:	Furans to Benzofurans: Intramolecular Cross-Benzoin Reactions Catalysed by N-Heterocyclic Carbenes
Authors:	Shirke, R.P. (/jspui/browse?type=author&value=Shirke%2C+R.P.) Reddy, V. (/jspui/browse?type=author&value=Reddy%2C+V.) Anand, R.V. (/jspui/browse?type=author&value=Anand%2C+R.V.) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.)
Keywords:	N-heterocyclic carbenes Organocatalysis Annulation Benzoin condensation
Issue Date:	2016
Publisher:	Thieme
Citation:	Synthesis (Germany), 48(12), pp.1865-1871.
Abstract:	The first synthesis of dihydrobenzofuranones and benzofurans based on an intramolecular cross-benzoin reaction has been reported. Commercially available 3-furan carboxaldehydes are readily α-alkylated to furnish 3-formyl-2-furylcarbinols, which are further elaborated to the synthesis of benzofurans in good yields through sequential bismuth(III) chloride catalysed furfurylation and a novel NHC-promoted intramolecular cross-benzoin condensation reaction.
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