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Title:	Synthesis of benzofurans via an acid catalysed transacetalisation/Fries-type O \rightarrow C rearrangement/Michael addition/ring-opening aromatisation cascade of β -pyrones
Authors:	Bankar, S.K. (/jspui/browse?type=author&value=Bankar%2C+S.K.) Mathew, Jopaul (/jspui/browse?type=author&value=Mathew%2C+Jopaul) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.)
Keywords:	Benzofuran derivative Phenol derivative Acetalization Aromatization
Issue Date:	2016
Publisher:	Royal Society of Chemistry
Citation:	Chemical Communications, 52(32), pp. 5569-5572
Abstract:	An unusual and facile approach for the synthesis of 2-benzofuranyl-3-hydroxyacetones from 6-acetoxy- β -pyrones and phenols is presented. The synthetic sequence involves a cascade transacetalisation, Fries-type O \rightarrow C rearrangement followed by Michael addition and ring-opening aromatisation. The versatility of this method was further demonstrated via the synthesis of 4,4a-dihydropyrano[3,2-b]benzofuran-3-ones, furo[3,2-c]coumarins, and spiro[benzofuran-2,2'-furan]-4'-ones. The unexpected cascade event would also provide new possible considerations in the β -pyrone-involved organic synthesis.
URI:	https://pubs.rsc.org/en/content/articlelanding/2016/cc/c6cc01016d#!divAbstract (https://pubs.rsc.org/en/content/articlelanding/2016/cc/c6cc01016d#!divAbstract) http://hdl.handle.net/123456789/2409 (http://hdl.handle.net/123456789/2409)
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