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Title:	A room-temperature protocol to access isoquinolines through Ag(i) catalysed annulation of o-(1-alkynyl)arylaldehydes and ketones with NH ₄ OAc: Elaboration to berberine and palmatine
Authors:	Reddy, V. (/jspui/browse?type=author&value=Reddy%2C+V.) Jadhav, A.S. (/jspui/browse?type=author&value=Jadhav%2C+A.S.) Anand, R.V. (/jspui/browse?type=author&value=Anand%2C+R.V.)
Keywords:	isoquinolines through Ag(i) annulation of o-(1-alkynyl)arylaldehydes NH ₄ OAc
Issue Date:	2015
Publisher:	Royal Society of Chemistry
Citation:	Organic and Biomolecular Chemistry, 13(12) pp. 3732-3741
Abstract:	An efficient and mild protocol for the direct construction of aryl- and alkyl-substituted isoquinolines has been realized through silver nitrate catalyzed aromatic annulation of o-(1-alkynyl)arylaldehydes and ketones with ammonium acetate. The salient feature of this methodology is that this annulation could be effected at room temperature leading to a wide range of isoquinoline derivatives in good to excellent yields. Additionally, this approach has been employed to the synthesis of biologically important isoquinoline alkaloids such as berberine and palmatine
URI:	https://pubs.rsc.org/en/content/articlelanding/2015/OB/C4OB02641A#!divAbstract (https://pubs.rsc.org/en/content/articlelanding/2015/OB/C4OB02641A#!divAbstract) http://hdl.handle.net/123456789/2947 (http://hdl.handle.net/123456789/2947)
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