



# Library Indian Institute of Science Education and Research Mohali



**DSpace@IISERMohali (/jspui/)**  
**/ Thesis & Dissertation (/jspui/handle/123456789/1)**  
**/ Master of Science (/jspui/handle/123456789/2)**  
**/ MS-14 (/jspui/handle/123456789/1078)**

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/1183>

Title:	Organophosphine Catalyzed Intramolecular Morita- Baylis-Hillman Reaction
Authors:	Tung, Pinku (/jspui/browse?type=author&value=Tung%2C+Pinku)
Keywords:	Chemistry Organophosphine Catalyzed Plausible Mechanism Organophosphine ligands Acetonitrile
Issue Date:	28-Sep-2019
Publisher:	IISERM
Abstract:	Here we present an organophosphine catalyzed intramolecular Morita-Baylis-Hillman (IMBH) reaction of biaryl enone-aldehyde. The reaction leads to the formation of cyclohepta- fused biaryls bearing arenes and heteroarenes. The reaction occurs at a mild condition, and the substrates are tolerant of a variety of functional groups. An atroposelective Suzuki reaction can be carried out during the starting material synthesis which can deliver an asymmetric IMBH product of various synthetic utility. Towards this different methods have been employed. However, the methods remain quite ineffective in affording either yield or enantioselectivity. Further study on this aspect is underway.
URI:	IISERM (IISERM) <a href="http://hdl.handle.net/123456789/1183">http://hdl.handle.net/123456789/1183</a> ( <a href="http://hdl.handle.net/123456789/1183">http://hdl.handle.net/123456789/1183</a> )
Appears in Collections:	MS-14 (/jspui/handle/123456789/1078)

Files in This Item:

File	Description	Size	Format	
MS14143.pdf (/jspui/bitstream/123456789/1183/3/MS14143.pdf)	Full Text.pdf	7.15 MB	Adobe PDF	<a href="#">View/Open (/jspui/bitstream/123456789/1183/3/MS14143.pdf)</a>

Show full item record (/jspui/handle/123456789/1183?mode=full)

(/jspui/handle/123456789/1183/statistics)

Items in DSpace are protected by copyright, with all rights reserved, unless otherwise indicated.