



Library Indian Institute of Science Education and Research Mohali



DSpace@IISERMohali (/jspui/)
/ Publications of IISER Mohali (/jspui/handle/123456789/4)
/ Research Articles (/jspui/handle/123456789/9)

Please use this identifier to cite or link to this item: <http://hdl.handle.net/123456789/2376>

Title:	Controlling the regioselectivity of the ring opening of spiro-epoxyoxindoles for efficient synthesis of C(3)-N(1')-bisindoles and C(3)-N(1')-diindolymethane
Authors:	Hajra, S. (/jspui/browse?type=author&value=Hajra%2C+S.) Maity, Subrata (/jspui/browse?type=author&value=Maity%2C+Subrata) Roy, Sayan (/jspui/browse?type=author&value=Roy%2C+Sayan) Das, Dhiraj (/jspui/browse?type=author&value=Das%2C+Dhiraj)
Keywords:	Diindolymethane Nucleophilicity Spiro-Epoxoxindoles
Issue Date:	2019
Publisher:	Royal Society of Chemistry
Citation:	Organic and Biomolecular Chemistry,17(33), pp. 7747-7759.
Abstract:	An efficient strategy for the construction of both C(3)-N(1') bisindoles and C(3)-N(1') diindolymethane has been explored via proper tuning of the nucleophilicity of indoline/indole to spiro-epoxyoxindole. Lewis acid-catalyzed highly regio- as well as chemoselective coupling at the C-3 centre of spiro-epoxyoxindoles with indolines furnishes C(3)-N(1') bisindoles whereas base mediated and Lewis acid-catalyzed regioselective coupling at the less hindered site of spiro-epoxyoxindoles with indoles via the SN2 mechanism provides C(3)-N(1') diindolymethane.
URI:	https://pubs.rsc.org/en/content/articlelanding/2019/ob/c9ob01249d#divAbstract (https://pubs.rsc.org/en/content/articlelanding/2019/ob/c9ob01249d#divAbstract) http://hdl.handle.net/123456789/2376 (http://hdl.handle.net/123456789/2376)
Appears in	Research Articles (/jspui/handle/123456789/9)
Collections:	

Files in This Item:

File	Description	Size	Format	
Need to add pdf.odt (/jspui/bitstream/123456789/2376/1/Need%20to%20add%20pdf.odt)		8.63 kB	OpenDocument Text	View/Open (/jspui/bitstream/123456789/2376/1/Need%20to%20add%20pdf.odt)

[Show full item record \(/jspui/handle/123456789/2376?mode=full\)](#)

[📊 \(/jspui/handle/123456789/2376/statistics\)](#)

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