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Title:	Palladium-catalysed 5-endo-trig allylic (hetero)arylation
Authors:	Singh, Bara (/jspui/browse?type=author&value=Singh%2C+Bara) Bankar, S.K. (/jspui/browse?type=author&value=Bankar%2C+S.K.) Kumar, K. (/jspui/browse?type=author&value=Kumar%2C+K.) Ramasastry, S.S.V. (/jspui/browse?type=author&value=Ramasastry%2C+S.S.V.)
Keywords:	Aromatic compounds Catalysis Palladium Cyclopentenones Diterpenes Arylations
Issue Date:	2020
Publisher:	Royal Society of Chemistry
Citation:	Chemical Science, 11(19), pp.4948-4953.
Abstract:	A palladium-catalysed intramolecular allylic (hetero)arylation strategy for the synthesis of fused cyclopentenones incorporated with all-carbon quaternary and spiro centres is described. The method is straightforward, shows broad scope, proceeds in synthetically useful yields, and provides a rare means to construct complex cyclopentanoids. The reaction is believed to involve a kinetically unfavourable 5-endo-trig carbocyclisation of the tethered ( $\pi$ -allyl)palladium system. Further, this method was successfully applied as the key step in the total synthesis of diterpene natural products taiwaniaquinone H and dichroanone.
URI:	<a href="https://pubs.rsc.org/en/content/articlelanding/2020/SC/D0SC01932A#divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/SC/D0SC01932A#divAbstract</a> ( <a href="https://pubs.rsc.org/en/content/articlelanding/2020/SC/D0SC01932A#divAbstract">https://pubs.rsc.org/en/content/articlelanding/2020/SC/D0SC01932A#divAbstract</a> ) <a href="http://hdl.handle.net/123456789/3383">http://hdl.handle.net/123456789/3383</a> ( <a href="http://hdl.handle.net/123456789/3383">http://hdl.handle.net/123456789/3383</a> )
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