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Title:	An unprecedented tandem synthesis of fluorescent coumarin-fused pyrimidines via copper-catalyzed cross-dehydrogenative C(sp <sup>3</sup> )-N bond coupling
Authors:	Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)
Keywords:	Aromatic compounds Chemical bonds Fused pyrimidine Benzylamines
Issue Date:	2018
Publisher:	Royal Society of Chemistry
Citation:	Organic and Biomolecular Chemistry, 16(17), pp. 3220-3228
Abstract:	An efficient, one-pot Cu-catalyzed tandem synthesis of fluorescent 1-benzyl-2-phenyl-1,2-dihydro-5H-chromeno[4,3-d]pyrimidin-5-ones from 4-chloro-3-formylcoumarin and benzylamines was developed by in situ intramolecular cross-dehydrogenative C(sp <sup>3</sup> )-N bond formation in moderate-to-good yields under ligand-free ambient conditions. This synthesis was easily scalable, and the generality of the substrates was established. These coumarin-fused pyrimidines exhibited interesting photo-physical properties and high quantum yields, and would be potential candidates for facilitating suitable studies in medicinal chemistry and materials science.
Description:	Only IISERM authors are available in the record.
URI:	<a href="https://pubs.rsc.org/en/content/articlelanding/2018/ob/c8ob00586a#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2018/ob/c8ob00586a#!divAbstract</a> ( <a href="https://pubs.rsc.org/en/content/articlelanding/2018/ob/c8ob00586a#!divAbstract">https://pubs.rsc.org/en/content/articlelanding/2018/ob/c8ob00586a#!divAbstract</a> ) <a href="http://hdl.handle.net/123456789/2253">http://hdl.handle.net/123456789/2253</a> ( <a href="http://hdl.handle.net/123456789/2253">http://hdl.handle.net/123456789/2253</a> )
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