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Title:	Ruthenium Catalyzed C-H Acylmethylation of N-Arylphthalazine-1,4-diones with α-Carbonyl Sulfoxonium Ylides: Highway to Diversely Functionalized Phthalazino-fused Cinnolines						
Authors:	Laha, Biswajit (/jspui/browse?type=author&value=Laha%2C+Biswajit) Mandal, S.K. (/jspui/browse?type=author&value=Mandal%2C+S.K.)						
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Abstract:	A direct ortho-Csp2-H acylmethylation of 2-aryl-2,3-dihydrophthalazine-1,4-diones with α-carbon sulfoxonium ylides is achieved through a Rull-catalyzed C-H bond activation process. The protocol featured high functional group tolerance on the two substrates, including aryl-, heteroaryl-, and alkyl-substituted α-carbonyl sulfoxonium ylides. Thereafter, 2-(ortho-acylmethylaryl)-2,3-dihydrophthalazine-1,4-diones were used as potential starting materials for the expeditious synthesis of 6-arylphthalazino[2,3-a]cinnoline-8,13-diones and 5-acyl-5,6-dihydrophthalazino[2,3-a]cinnoline-8,13-diones under Lawesson's reagent and BF3-OEt2 mediated conditions, respectively. Of these, the BF3-OEt2-mediated cyclization proceeded in DMSO as a solvent and a methylene source via dual C-C and C-N bond formations.						
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