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Title:	Unusual Reactions Mediated by the Corey-Chaykovsky Reagent to Synthesize Cyclopropa-Fused Dibenzocycloheptanoids
Authors:	<a href="#">Chattopadhyay, Anwita</a>
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Abstract:	Utilizing the unique characteristics of the sulfoxonium ylides to undergo bi-functionalization reactions, our group has developed several unusual and proficient cyclopropanation strategies to access several highly functionalized and synthetically privileged motifs in single step from easy-to-prepare starting compounds. Subsequently, we planned to extend the scope of these methodologies. Hence, we have investigated the reactivity of sulfoxonium ylides with biaryl enone-aldehyde substrates, as this chemistry with sulfoxonium ylides is yet unexplored with biaryl scaffolds. It has been found that reaction of dioxosulfoxonium methyllide (DOSM) with designed biaryl substrates deliver a series of cyclopropa-fused dibenzocycloheptanoid scaffolds in excellent yields. Dibenzocycloheptanoids represent the core of several bioactive natural products.
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