Intermolecular H-Atom Abstraction in Radical C-H Activation

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Intermolecular C-H functionalization of unactivated hydrocarbons are of great importance in the synthetic organic chemistry. Selective activation of aliphatic C-H bond can be performed using transition metal catalysis\textsuperscript{1,2} or radical reactions\textsuperscript{3,4}. Control the regioselectivity of radical mediated C-H activation is a challenging field\textsuperscript{5,6}.

We describe here a general approach using different kinds of highly reactive radicals to abstract the hydrogen atoms and sulphonyl reagents to trap the intermediate alkyl radicals. A strategy to control the regiochemistry by varying the abstracting radical will be presented.