Title: Activation of C-H Bonds by Pincer-Iridium Complexes. Catalysis and Fundamental Studies

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## Abstract:

Pincer-ligated iridium complexes have been well demonstrated to act as catalysts for alkane dehydrogenation. Studies of the mechanism and scope of dehydrogenations will be discussed, as well as coupling with secondary reactions (tandem catalysis). In addition, the ability of such complexes to effect the critical step of C-H bond addition is explored and exploited for reactions other than dehydrogenation, including C-O and C-F bond cleavage.

