

NEW VISTAS IN THE ASYMMETRIC CONSTRUCTION OF C-C BONDS: TOTAL SYNTHESIS OF COMPLEX BIOACTIVE AGENTS

The seminar will describe the development and application of stereoselective transition metal-catalyzed cross-coupling and cycloaddition reactions for the total synthesis of bioactive agents. Specifically, it will outline our approach to the construction of acyclic quaternary carbon stereogenic centers and to the development of a concise, efficient and scalable total synthesis of the complex bioactive sesquiterpene natural product, thapsigargin. Hence, the first part will focus on a series of new metal-catalyzed allylic cross-coupling reactions with novel pronucleophilesand the second part will outline the development of higher-order carbocyclization reactions that emulate terpene biosynthesis.

PRESENTED BY: P. Andrew Evans

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September 7, 2018 SMLC 102 4:00 p.m.