“Diverting Cycloalkenes to Polycyclic Indole Alkaloids”

Résumé: Indole alkaloids with broad skeleton diversity and important bioactivities have attracted attention of chemists for over a century. Indeed, the polycyclic structures of these natural products provided ideal test ground for the development of novel synthetic strategies and for the application of newly discovered reactions/transformations. In this talk, we will present a unified strategy that allowed us to accomplish the total synthesis of a number of structurally distinct indole alkaloids from simple cycloalkenes, emphasizing particularly on the design of integrated one-pot domino polycyclization processes.