



A FRIDAY SYNTHESIS SYMPOSIUM PRESENTATION:

Intermolecular Allylic C-H Amination via Ir(III)-Catalysis

Speaker:

Honghui Lei (Rovis Group)

When:

Friday, March 1 at 4PM

Where:

Havemeyer 209

Abstract:

Due to the ubiquity of nitrogen-containing functionalities in both natural and synthetic bioactive molecules, C – N bond formation reactions are some of the most frequently used transformations in medicinal chemistry. In addition to classic strategies which usually require prefunctionalization, direct amination of C – H bonds could dramatically simplify synthetic routes, providing more straightforward disconnections for amine synthesis. We are particularly interested in allylic C-H amination, because alkenes are not only prevalent in a variety of compounds but are also easily manipulated with a diverse range of robust methods. Our recent efforts toward branch-selective allylic C-H amination of mono-substituted terminal olefins and electronics controlled regioselective amination of di-substituted olefins will be presented.

