Dynamic Covalent Chemistry and Transition Metal Catalysis as Tools for Heterocyclic Chemistry

Professor Jeannie Bolliger
Assistant Professor
Oklahoma State University
Department of Chemistry

Abstract

Heterocyclic compounds are of great importance as they found in many pharmaceuticals, agrochemicals and consumer goods. In particular the fields of medicinal chemistry and catalysis have benefited from the development of robust synthetic routes both in heterocycle formation as well as methods for their functionalization. The Bolliger group uses a variety of methods for furthering the field of heterocyclic chemistry, such as a copper catalyzed arylation to form triazolium salts or oxidative disulfide coupling to enable the formation of tricyclic aromatic thiazolium salts.