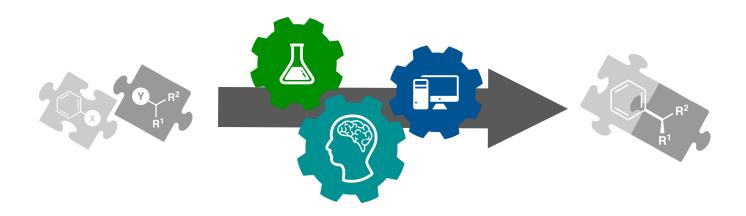
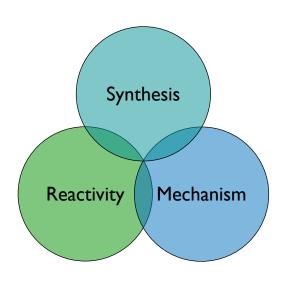
## Building Chiral Molecules with Cross-Coupling Catalysts



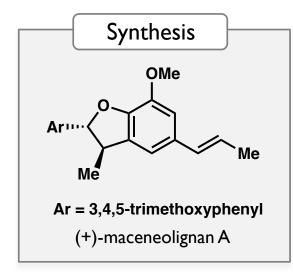
Our group focus is on developing metal-catalyzed cross-coupling reactions that use earth-abundant metal catalysts. We aim to apply these reactions in small molecule synthesis and use data science tools to understand key structural and electronic parameters that influence reaction outcomes.

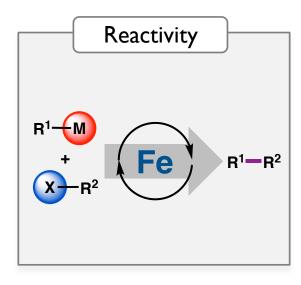
## Laboratory Research Focus

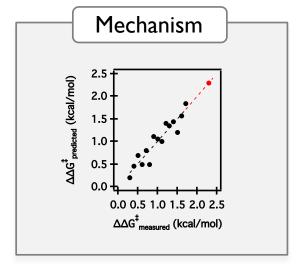


Our group will use data science to guide the development of asymmetric Fe-catalyzed reactions that allow for late-stage diversification of small molecule natural products.

Negishi Arylations of  $\alpha$ -Oxy Redox Active Esters for the Synthesis of Maceneolignan A







## **Graduate School**

Yellow organic compound:



Purple nickel compound:

