



## ORGANIC SEMINAR

Catalytic, selective isomerization reactions

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Selective isomerization reactions are valuable tools for the spatial interconversion of functional groups. Catalytic isomerizations are frequently governed by thermodynamic control, enabling predictable access to product distributions defined by the stability of starting and product isomers, but limiting opportunities for tunable control. Here, we describe a mechanistic framework to achieve kinetically controlled, contra-thermodynamic isomerization reactions in diverse synthetic contexts. Our work explores how the strategic application of these reactions in a late stage setting can facilitate the construction of complex organic molecules.

**DATE: TUESDAY, SEPTEMBER 20th, 2022**  
**TIME: 3:30 PM – 1435 Learning Studio, North Tower**

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