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## Macrocyclic Pendant Arm Extension: An Application of the Husigen 1,3-Dipolar Cycloaddition Reaction

Cory Kline  
*Illinois Wesleyan University*

Rebecca Roesner, Faculty Advisor  
*Illinois Wesleyan University*

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Poster Presentation P26

**MACROCYCLIC PENDANT ARM EXTENSION: AN APPLICATION OF THE  
HUISGEN 1,3-DIPOLAR CYCLOADDITION REACTION**

Cory Kline and Rebecca Roesner\*

Chemistry Department, Illinois Wesleyan University

Click chemistry reactions are simple, one-step processes that ideally have readily available starting materials, simple reaction conditions, and give high yields of a single product.

These reactions are widely used in both medicinal and materials chemistry and have attractive characteristics for use in the assembly of supramolecular systems. Application of the Huisgen 1,3-dipolar cycloaddition reaction between azides and alkynes, a common "click" reaction, was explored. A known macrocycle with four alkyne functional units was reacted with benzyl azide under several reaction conditions, including both catalyzed and uncatalyzed Huisgen 1,3-dipolar cycloaddition reactions. The results of this study will be presented.

