Walid Izri

STUDENT, BACHELOR OF SCIENCE - CHEMISTRY MAJOR

Synthesis of Bisallylic Allylic Silyl Ethers with Pendant Leaving Groups off Carbon 2

Appropriately constructed substrates are required in order to probe anionic 6ϖ/5-carbon electrocyclizations as a potential methodology for construction of 5-membered carbocycles. This project details the synthesis of substrates suitable for directed lithiation, while also containing groups to drive the equilibrium forward. These substrates were constructed via a series of vinyl Grignard additions into (Z)-α-bromocinnamaldehyde to form bisallylic alcohols. These alcohols were then silylated to cap the alcohol. Finally, the vinyl bromide moiety was used to construct electron withdrawing groups at the 2-position of the bisallylic system.

Research Advisor: Dr. Owen Scadeng, Assistant Professor