Illinois Wesleyan University
Digital Commons @ IWU

John Wesley Powell Student Research Conference

1995, 6th Annual JWP Conference

Apr 22nd, 10:00 AM - 4:00 PM

On the Road to (+)-Obafluorin

Michael Busse
Illinois Wesleyan University

Dr. Jeff Frick, Faculty Advisor
Illinois Wesleyan University

Follow this and additional works at: https://digitalcommons.iwu.edu/jwprc

Busse, Michael and Frick, Faculty Advisor, Dr. Jeff, "On the Road to (+)-Obafluorin" (1995). *John Wesley Powell Student Research Conference*. 37.
https://digitalcommons.iwu.edu/jwprc/1995/posters/37

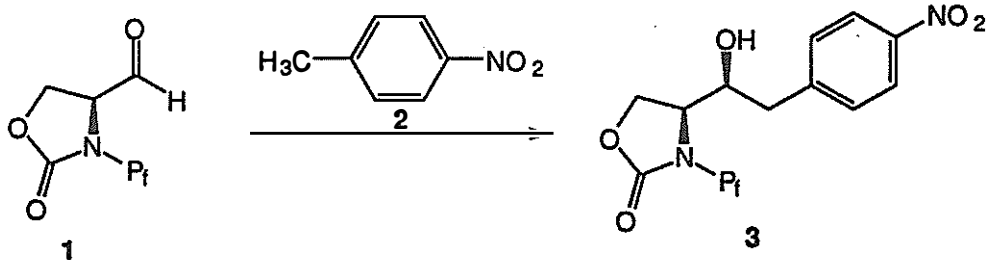
This Event is protected by copyright and/or related rights. It has been brought to you by Digital Commons @ IWU with permission from the rights-holder(s). You are free to use this material in any way that is permitted by the copyright and related rights legislation that applies to your use. For other uses you need to obtain permission from the rights-holder(s) directly, unless additional rights are indicated by a Creative Commons license in the record and/ or on the work itself. This material has been accepted for inclusion by faculty at Illinois Wesleyan University. For more information, please contact digitalcommons@iwu.edu.
©Copyright is owned by the author of this document.

ON THE ROAD TO (+)-OBAFLUORIN

Michael Busse and Dr. Jeff Frick*, Department of Chemistry, IWU

In the continuing search for different antibiotics, the ß-lactone antibiotic (+)-obafluorin has been isolated from strains of *Pseudomonas fluorescens* bacteria. In the process of our proposed novel synthesis of this compound, the following step (Equation 1) is required: addition of the anion of *p*-nitrotoluene **2** to the protected amino aldehyde derivative **1**.

Equation 1



Model studies involving the addition of nitrobenzyl magnesium-bromide (**4**) to benzaldehyde and the addition of the *p*-nitrotoluene anion (**5**) to select electrophiles (Equation 2) is being explored. The results of these experiments will be presented.

Equation 2