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A Proposed Novel Synthesis of (+)-Obafluorin

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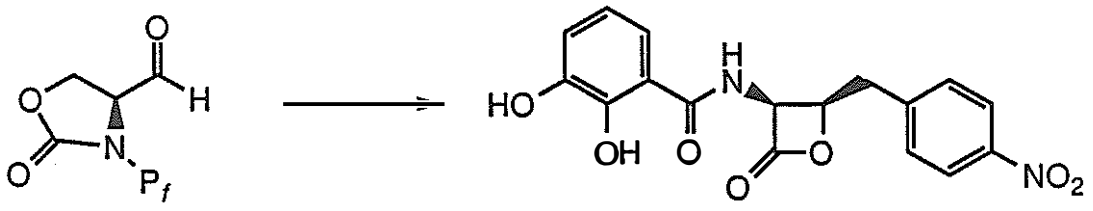
A PROPOSED NOVEL SYNTHESIS OF (+)-OBAFLUORIN.

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

In the continuing search for antibiotics, a novel b-lactone antibiotic has been discovered in strains of *Pseudomonas fluorescens* bacteria in various locations around the world. In our proposed novel synthesis of this b-lactone, called (+)-obafluorin **2**, we require the use of aldehyde **1**. Two methods of synthesizing compound **1** are being explored. One method has shown to be unsuccessful; the other is currently being tested. The results of these experiments will be presented.



1 **2**

* faculty advisor