

2008 Ohio Student Research Forum

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RESEARCH ABSTRACT FORM

TITLE: Synthesis of a Glucuronosyl 1,2,3-Triazole

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We have been investigating the use of microwave heating for the synthesis of a new 1,2,3-triazole derived from D-glucuronic acid as a potential drug against *Staphylococcus aureus*. By heating an azide precursor with phenyl vinyl sulfoxide we were able to construct a protected version of the product and then remove the protecting groups efficiently to reveal the required compound. We will discuss the synthesis and structure of the new glycosyl triazole, as well as modifications in the synthesis.