Overview

 MALDI-TOFMS

 Introduction

 S. coelicolor and its Natural Products

 MALDI-Imaging

 Preparing the MALDI Plate For Imaging

 Size Exclusion Chromatography

 Results

 MALDI Of the SEC Fractions

 The Effects Of Using 7ae

 MALDI-Imaging Of S. coelicolor With 7ae

 Methods

 The Inoculation of Plates

 Size Exclusion Chromatography (SEC) is a technique used to separate molecules in a mixture based on their size.

 Extraction of S. coelicolor Molecules

 Conclusions

 7ae elicits the production of many molecules in S. coelicolor, and some of these molecules can be extracted and isolated.

 Acknowledgments

 Research Scholars, Dr. Elizabeth Komives

 The Dorrestein Lab

**Overview**

*unknown molecules, an extraction was performed.*

*in addition to unknown molecules in a compound synthesized by the Burkart Lab, was tested with*.

*according to their time of flight.*

*ionize the sample, which desorbs into the time of flight tube. These ions hit the detector in order by mass (polymers, dendrimers, and other macromolecules). As the MALDI laser shoots the sample, the matrix and laser*.

**Introduction**

*S. coelicolor and its Natural Products*

*elangered by the Burkart Lab (UCSD) to inhibit PPTase activity. However, they observed an*.

*produces many natural products which are useful in the making of today's antibiotics. 7ae,*

*S. coelicolor S. coelicolor S. coelicolor, an n-butanol extraction must be performed. The bacteria along*.

*with 7ae than in the control. What those molecules are and how 7ae elicits them is currently*.

**The Effects Of Using 7ae**

*7ae is a compound synthesized by the Burkart Lab (UCSD) to inhibit PPTase activity. However, they observed an*.

*are distributed in animal and plant tissues, and also throughout bacterial*.

**Methods**

*The Inoculation of Plates*

* were good in supporting growth, and the ingredients*.

*was subjected to rotary evaporation to evaporate the solvent.*

*beads, which is designed for separation of*.

*were collected, and the MALDI mass spectra used to show these fractions.*

**Results**

*The Dorrestein Lab*

**Conclusions**

*Some of these molecules can be extracted and isolated.*

*Acknowledgments*

*Research Scholars, Dr. Elizabeth Komives*