

CALIFORNIA STATE SCIENCE FAIR 2016 PROJECT SUMMARY

Name(s)	Project Number
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	36850
Project Title	
The Behavioral Effects of Sodium Lauryl Sulfate on Caenerhabditis	
elegans	
Abstract	
Objectives/Goals (5)	
The objective of this study is to determine if sodium lauryl sulfate is present in cause behavior differences in c. elegans.	face washes and if it will
Methods/Materials	\bigcirc
SLS, c. elegans, Clinique face wash, Olay face wash, HPLC. Face washes were detect if SLS was present, then 3 different serial dilutions were exposed to the	sum through HPLC to vorms.
Results O V	
SLS was detected in face washes. Four groups of C. elegans were treated and su	iffered from behavioral
movements such as size, energy, and death.	
Face washes that don't list SLS as an active ingredient and still have a framing which is activated by water. The C. elegans that were greated all suffered from the still have a structure of the still have a structure of the st	effect, do Indeed have SLS
which is activated by water. The C. elegans that were beated all suffered from the be parallel to the effects SLS may have when used on human skin.	behavior effects which can
Summary Statement	
As measured in the banavior differences in C. elegans, SLS can be toxic to orga	unisms exposed to it.
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Help Received	
For HPLC, we were mentored by Dr. Greg Cauchion, and our teacher Dr. Malhotra	