



**CALIFORNIA SCIENCE & ENGINEERING FAIR
2019 PROJECT SUMMARY**

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Project Title MucilaGenius	
<p style="text-align: center;">Abstract</p> <p>Objectives The objective of this experiment was to find a more natural solution that could help replace chemical dispersants currently being used to help clean oil spills.</p> <p>Methods Mason Jars, Motor Oil, Prickly Pear Cactus, Aloe Vera, Flax Seeds, Chia Seed, Water, Measuring Utensils. In this experiment, 2 plants and 2 seeds were used to prove or disprove that they could help absorb oil.</p> <p>Results Several plants and seeds were tested to see whether they could help clean up or absorb oil. The Cactus absorbed the most, the Flax Seeds absorbed the second most, the Chia Seeds absorbed the 3rd most, and the Aloe Vera the least.</p> <p>Conclusions The Prickly Pear Cactus was proven to help clean up oil spills the best and the Aloe Vera the least best after multiple tests on the seeds and plants.</p>	
Summary Statement The mucilage in 2 plants and 2 seeds was tested to see if it could help create a more natural solution to replace chemicals currently being used to help clean oil spills.	
Help Received I did the experiment completely on my own but received guidance and direction from my science teacher, Mr. Kubilos.	