

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

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Name(s)	Project Number
Bailey J. Steelman	
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	35143
Project Title	
The Effect of Ibuprofen on Physarum polycephalum	<i>M</i> ()/
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Abstract	
Objectives/Goals	
The goal of this experiment was to find the effect of Ibuprofen on Physarum Po	lycephalum's (P.P.) speed
and microscopic makeup. The hypothesis states that if Ibuprofen is given to slin less than the slime mold given regular water.	he mold, then it will grow
Methods/Materials	5
The scientist set up the experiment by separating sixteen petri dishes into four	groups of four. Eight petri
dishes were in each group. Four petri dishes in the control and variable groups	were specifically set up to
The scientist set up the experiment by separating sixteen petri dishes into four dishes were in each group. Four petri dishes in the control and variable groups be observed microscopically and the other four in each group were set up so specific.	eed could be observed.
Results The control trial in the second group, group B, had the most growth, being an a	
than the variable group with an average of 1 mm of growth within three days.	verage of 3.8 mm longer
Conclusions/Discussion	
In three days with two drops of water every twenty four hours, the control trial,	group B, on average grew
10.8 millimeters. Under the same conditions, the ariable trial, allo group B, or	aly grew 1 millimeter in
three days. My hypothesis is accepted.	
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Summary Statement	5
The central focus of the experiment was to find how Ibuprofen reacts with Physican and of growth	sarum Polycephalum's
speed of growth.	
Help Received	
None	