

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Cooper A. Drain	L
	10
	••
Project Title	
Acceleration vs. Cell Regeneration	
Abstract	
Objectives/Goals	*
planarian.	1
Wethods/Materials	
60 planarians were divided into two groups of thirty: a Flight Group and a Control Group. The pl	anarians
and launched with an E30-7t Arotech engine. The planarians were then taken home; both groups	were
measured every day for two weeks and their regrowth was recorded.	
Xesults The Flight Group grew at an average daily rate of 0.23 mm a day while the Control Group grew a	at an
average rate of 0.16 mm a day. The Flight Group also had 8 planarians grow back to at least their	original
size while the Control Group had only 3 grow back to their original size.	
The Flight Group grew faster than the Control Group did. These results completely rejected my	
hypothesis and contradicted all the research I conducted. This may be because I was not able to in	nduce the
planarians to the G-forces long enough to damage the cells. The research I conducted states that i	t is not
damage.	centulai
	ſ
Summary Statement	
How does acceleration affect the cell regeneration rate of fresh water planarian	
The does deceleration arout the centregeneration rate of fresh water planarian.	
Help Received	
Mom helped revise paperwork; Dad built payload stopper; Ms. Fisher showed how to cut planaria Jovero built the rocket: ROCstock organized launch	an; Mr.