



**CALIFORNIA STATE SCIENCE FAIR  
2009 PROJECT SUMMARY**

<b>Name(s)</b> <b>Julie M. Korsmeyer</b>	<b>Project Number</b> <b>J1516</b>
<b>Project Title</b> <b>Best Fake Blood</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My purpose was to find out which of the 3 fake bloods I chose was the closest to real blood. <b>Methods/Materials</b> My first step was to make all the different types of fake blood recipes I had chosen. I did the splatter test first. 0.25 ml of samples were dropped from a 3 ft height. I had to go through and make a splatter 3 times for each blood and then measure the diameters of all of them. My second part was the flow. I set up a tilted board at 21 degree angle, each drop 0.25 ml of blood flowed down the paper for 15 seconds, measured the distance and repeated it 3 times for each blood. Then my mom (an adult had to do this part) did the splatter and flow for the real blood from chicken liver. I measured the real blood, made graphs and wrote my conclusion. <b>Results</b> When we tested the splatter, the average of B1 was 1.4361 in while Real Blood had an average of 1.121 in. In the flow test, B1 had an average of 28.5 cm of distance traveled while Real blood had a 27.3 cm average distance. Comparing all 3 fake bloods to real blood, B1 was closest. <b>Conclusions/Discussion</b> My hypothesis, that B1 would be closest to the real blood, was correct. For both splatter and flow, B1 mimicked Real Blood the best. The most important factor of this whole project had to do with the consistency of the fake bloods. Other tests might have different results than this one. I recommend other tests such as the way blood looks after it dries, how long it takes to dry, the dragging marks, the spraying pattern and how it stains.	
<b>Summary Statement</b> This project was to find out which of the 3 fake bloods was the closest to real blood.	
<b>Help Received</b> My Mom for putting up with me, giving me all the supplies, helping me keep on track and helping me on my experiment if it was needed. Mr. Espinoza for being an awesome teacher, answering my questions, and helping me understand the Scientific Method. SCCBEP for loaning me the Caliper and Tube Racks.	