



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Jason M. Bell	Project Number S1901
Project Title Digestion of GFP (Green Florescence Protein) in Caenorhabditis elegans	
Abstract Objectives/Goals The main objective of this experiment was to further an understanding in protien digestion. Where does GFP get digested within the digestive tract of the C. elegans? I hypothesized that the GFP would be broken down and reassembled within the cells causing them to illuminate, as well as be digested and become invisible in the lower digestive tract. Methods/Materials In this experiment, I used ever renewed plates of E. Coli. The worms that I used as my model organisms were two strains of C. Elegans: N2 Wildtype and JJ48 mutant strain. Results GFP ingested by C.elegans is digested in the upper digestive tract and portions do illuminate cells of the worm itself. Conclusions/Discussion Digestion of protiens as far as this expirement is concerned occurs in the upper digestive tract. Not all protiens ingested are utilized some are still passed through the system.	
Summary Statement This project is intended to further the understanding of the digestion of proteins.	
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