



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Peter K. Rath	Project Number S1427
Project Title Stopping Cancer in Its Tracks	
Abstract Objectives/Goals The object of this project was to determine whether berberine would halt the cell division of cancer cells and to determine which concentration would be most effective. Methods/Materials U87-MG glioma cell lines were exposed to varying concentrations of Berberine and incubated for 120 hours. After this time, cells were counted to observe the effectiveness of Berberine, Results The 5mM/ml concentration of Berberine was most effective in halting cell division. Conclusions/Discussion It was concluded that the 5mM/ml concentration of Berberine was most effective in halting cell division while maintaining liveliness of the cell samples and that Berberine does in fact inhibit cellular differentiation.	
Summary Statement The halting of cell division of cancer cells.	
Help Received Lab technology and lab assistance provided by La Sierra University under Jim Wilson and Michael Cryder.	