



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> <b>Peter K. Rath</b>	<b>Project Number</b>  22858
<b>Project Title</b> <b>Stopping Cancer in Its Tracks</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> 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.</p> <p><b>Methods/Materials</b> 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,</p> <p><b>Results</b> The 5mM/ml concentration of Berberine was most effective in halting cell division.</p> <p><b>Conclusions/Discussion</b> 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.</p>	
<b>Summary Statement</b> The halting of cell division of cancer cells.	
<b>Help Received</b> Lab technology and lab assistance provided by La Sierra University under Jim Wilson and Michael Cryder.	