



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Nelli Ghazaryan	Project Number S0405
Project Title BRCA1 Methylation in Sporadic Breast Cancer	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To determine the stage in cancer in which there is a loss of BRCA1 expression, what the loss of this expression is due to. And what the effects of this loss are on the development of sporadic breast cancer.</p> <p>Methods/Materials Through Immuno Histo Chemistry, Hemotoxin & Eosin staining, Laser Capture Microdissection we will examine our collected multicultural cohort of patients, anaysizing tumor, lymph node and normal breast tissue for each. Using a nested PCR approach we will distinguish whether the patients have a loss of the BRCA1 protein or not.</p> <p>Results Distinctions between the patients who had a higher tumor grade percentage and the BRCA1 loss of expression were seen, as well as the effects of the BRCA1 methylation on the growth of tumors.</p> <p>Conclusions/Discussion INCONCLUSIVE DATE</p> <p>At this point many of the procedures and protocols are being optimized for study and patient samples are being garnered.</p>	
Summary Statement This project is about looking at BRCA1 loss abd nethylation and their correlation with the development of sporadic breast cancer.	
Help Received Research was done at USC Norris in the laboratory of Dr. Michael Press, under the mentorship of Dr. Melinda Epstein	