

Objective: Clearly and concisely state the objective(s) and importance of the research (approximately 150 words).

**Scientific Inquiry:**

We hypothesize that the pancreatic mutation (Patu2) in the Ig4 domain of palladin will result in altered protein structure, which may affect its interaction with actin and promote cell motility. Investigations of protein-protein interactions using cosedimentation assays, CD and NMR spectroscopy will help explain the implications associated with the palladin mutation. Further investigation of Patu2 will aid in understanding the metastasis involved in pancreatic cancer, the fourth lethal cancer in the United States. Pancreatic cancer's lethality usually occurs within one year of metastasis.

**Creative Activities:**

The objective of this project is not only to create realistic three-dimensional photographs, but also to gain a better understanding of how light can be captured and recreated. First, I will start off by creating a series of technical experiments to understand the holographic process. Then I will create holograms of small objects and gradually move onto larger and more complicated subjects. To conclude the project, the results will be displayed to the public in a gallery setting. This stage when the international system was in place on the belligerent states given the changes in political attitudes toward colonialism, and