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*2004 Program*

*Team Science Project  
(2-year project)*

**Project Title:** Nuclear Transport and Oncolysis: Novel Targets in Cancer Therapy

**Project Summary:** This project focuses on new therapeutic strategies that target different types of malignancies, including tobacco related lung and head and neck cancers. The goal is to understand the molecular mechanisms of the nuclear transport machinery to be able to regulate cell growth and cancer through the use of a virus (VSV), which kills cancer cells and keeps normal cells intact. This information will lead to the development of more efficient viruses and chemical agents that will kill only cancer cells and keep normal cells intact.