GENE THERAPY FOR BLADDER CANCER

**Focus Area:** Bladder Cancer  
**Research Type:** Translational  

**Description:**  
We are developing an intravesical tumor vaccine utilizing gene therapeutic techniques for the treatment of bladder cancer. We have succeeded in developing an animal model and are awaiting the initiation of a clinical trial.

EFFECTS OF CIGARETTE SMOKING ON IMMUNOTHERAPY FOR BLADDER CANCER

**Focus Area:** Bladder Cancer  
**Research Type:** Translational  

**Description:**  
This translation study evaluates the effects of cigarette smoke upon the immune system; a critical part in the treatment of bladder cancer. In addition to identifying the effects upon bladder cancer patients undergoing treatment, this study also will evaluate the relationship between cigarette smoking and the overall immune system.