

## **Research Profiles in Li's Laboratory**

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**Abstract:** The goal of my laboratory is to discover, develop and improve novel gene therapy for treating malignancy and other severe genetic diseases. To realize our goal, we are conducting studies in the following areas: 1) developing novel intramuscular electroporation-based therapies for treating residual systemic malignancy; 2) developing effective local tumor electroporation therapy for eradicating heavy-load tumors; 3) developing chemogene therapy for treating tumors; 4) developing tumor-anchoring or homing gene therapy for reducing toxicity; and 5) understanding the molecular mechanism of tumor growth inhibition mediated by electroporation gene therapy in combination with chemotherapy. These research projects are supported by NCI/NIH and NIDCR/NIH.