

**LSUHSC Gene Therapy Program
External Grant Awards**

FEDERAL AWARDS: \$25,422,433

- **CFTR expression and function in human neutrophils (new)**
- **Digit Regeneration in Mammals (new)**
- Vaccination strategies against pulmonary tuberculosis – supplement
- Alcohol Effects on Gene and Cytokine Expression of Human Airways
- Nasal DNA/Protein vaccine for anti-HIV antibody and CTL
- Mechanisms of protective immunity induced by live attenuated SIV vaccines
- In vivo targeted DC vaccine to activate anti-tumor CTL –supplement
- Delivery of therapeutic enzymes and genes to the central nervous system
- Generation of high avidity mucosal T cell responses
- Host defense against HIV-related pulmonary infections
- Targeted Eradication of Prostate Cancer Mediated by Engineered Mesenchymal Stem Cells
- Overcoming tumor tolerance through in vivo generated dendritic cells
- Adult stem cell mediated gene therapy for cystic fibrosis

STATE AWARDS: \$15,277,547

- **Derivation of domestic cat embryonic stem-like cells from blastocysts and somatic (new)**
- Louisiana Vaccine Center
- Lacrimal gland bioinformatics: a neural connection of dry eye and aging
- Gene and Stem Cell- Based Therapy for Cystic Fibrosis
- Immunotherapy of Bacterial pneumonia in HIV infections
- Center for Gene Therapy for Genetic and Acquired Diseases
- Genome Bioinformatics Center
- Morphology & Imaging core expansion towards intravital two-photon microscopy
- Center for Lung Biology and Immunotherapy

- Molecular diagnostic and therapeutic approaches to chronic diseases resulting from inhaled toxicant exposures

PRIVATE FOUNDATION AWARDS: \$1,470,036

- **Effects of phylogenic genera of recipient cytoplasts on development and viability (new)**
- Analysis of Oct 4 gene expression in interspecies sand cat cloned embryos and in-vitro fertilized domestic cat embryos
- Bacterial killing of Neutrophils for Cystic Fibrosis
- Effects of an Inhibitor of histone decetylases and viability of black-footed cat cloned embryos
- Engineering Mesenchymal Stem Cells for Cystic Fibrosis Therapy
- Genetic modification of hematopoietic stem cells for immunotherapy treatment of breast cancer

INDUSTRY SPONSORED RESEARCH / CLINICAL TRIALS: \$1,588,175

- **GM-CSF-Adjuvated Clade C DNA/MVA and MVA/MVA vaccines (GEOVAX) (new)**
- ALLOVECTIN-7 in patients with advanced metastatic melanoma (**Vical Inc.**)
- Phase II study of a TGF β -2 antisense gene modified allogeneic tumor cell vaccine in patients with non-small cell lung cancer (**NovaRx Corp.**)
- Develop protocols to show the purification of Adenovirus (AV), and Lentivirus (LV) gene therapy vectors, using Pall Mustang technology (**PALL Corp.**)

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