

James & Esther King Biomedical Research Program

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Saneron CCEK Therapeutics, Inc.

*2009 Program
Technology Transfer Commercialization Partnership
(1-year project)*

Project Title: Novel Autologous Stem Cell Source for Transplant Therapy in Stroke

Project Summary: Smoking can cause lung and other cancers, coronary heart disease, chronic respiratory disease, and other diseases, including stroke. The role of stem cells in brain injury has been recently recognized. In this project, we are examining stem cell therapy for stroke. Recent studies show that transplantation of menstrual blood-derived stem cells ameliorates stroke-induced behavioral and histological deficits, but the mechanisms of action remain poorly understood. The goal of this project is to test the hypothesis that transplantation of menstrual blood-derived stem cells promotes angiogenesis and neurogenesis as mechanisms of action for brain repair after stroke. Our long-term goal is to advance clinical application autologous cell therapy for stroke.