ADENOVIRAL INFECTION

The Redox Molecular Signaling Core utilizes adenoviral particles to induce transient protein expression in primary and transformed cardiovascular cells lines to overexpress. To initiate adenoviral cell infection, contact the Redox Molecular Signaling core facility at RedoxMolSignalCore@lsuhsc.edu and schedule a meeting with Core Leaders to discuss the project timeline and deliverables.

To be provided by investigator:

- A completed Work Order Form brought to the meeting with Core Leaders.
- Adenovirus to be used for infection with indicated MOI. Alternatively, the investigator can choose to use adenovirus produced from the Redox Molecular Signaling Core (See ADENOVIRUS PRODUCTION SOP). Please provide at least $1.5X10^7$ viral particles per dish of cells to be infected. Cells will be infected with adenovirus at an MOI of 10 unless otherwise indicated by the investigator.
- One 60 mm dish of vascular cells or cardiomyocytes to be transformed. Vascular cells should be at 50-70% confluence in growth media, whereas rat neonatal cardiomyocytes should be provided at $1.5X10^6$ cells per 60 mm dish. Alternatively, investigators may choose to utilize a vascular cell line from the core or vascular cells or cardiomyocytes isolated within the core (see relevant SOPs).
- Should specialty media be required for vascular cell or cardiomyocyte cell culture, 200 mLs of specialty media should be provided.
- If appropriate, antibody for cell staining to verify transduction efficiency. The investigator will provided sufficient antibody to make 1 mL of primary antibody at a sufficient dilution for immunocytochemistry, as verified in the investigator's laboratory.

To be generated by the core:

- Cells infected with the desired adenovirus. When possible, transduction efficiency of >50% will be verified prior to cells being returned to the investigator. This will involve visualization of a fluorescent reporter (e.g. GFP) or staining for the molecule of interest.

Timeline: 1-2 weeks