

LENTIVIRUS TRANSDUCTION OF VASCULAR CELLS

The Redox Molecular Signaling Core utilizes lentiviral particles and either primary vascular cells or vascular cell lines to enable rapid generation of vascular cell model systems. To initiate Vascular Cell Lentivirus Transduction, 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.
- Lentiviral particles. At least 1×10^6 transduction units should be provided. Alternatively, the investigator may choose to utilize Core generation of lentiviral particles from a lentiviral vector (see LENTIVIRUS PRODUCTION SOP).
- One 10 cm dish of vascular cells to be transduced. Cells should be provided at approximately 40% confluence. Alternatively, investigators can choose an immortalized endothelial or smooth muscle cell line from the Core vascular cell bank.
- Should specialty media be required for vascular cell culture, 100 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:

- Vascular cells transduced with the desired lentivirus. 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