

MOUSE LUNG ENDOTHELIAL CELL ISOLATION

The Redox Molecular Signaling Core utilizes a proteolytic digestion and two-step purification protocol to isolate mouse lung endothelial cells. To initiate Mouse Lung Endothelial Isolation, 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.
- The investigator will schedule a 2 hour block of time to facilitate endothelial isolation by transferring freshly euthanized mice (3-4 mice, <10 weeks of age) to the Redox Molecular Signaling Core technicians.
- The investigator will determine whether transformation will be performed in addition to the cell isolation service. Due to limited population doublings for primary mouse vascular cells, transformation is recommended (See VASCULAR CELL TRANSFORMATION SOP).

To be generated by the core:

- The core facility will return one 60 mm cell culture dish of isolated mouse lung endothelial cells at >90% purity based on staining for endothelial (ICAM1, VE-cadherin, CD31) and smooth muscle marker genes (SMA).

Timeline: 2-3 weeks primary; 3-4 weeks with transformation