Troy Stevens, PhD.

Director of the USA Center for Lung Biology
Lenior Louise Locke Endowed Chair of Physiology and Cell Biology

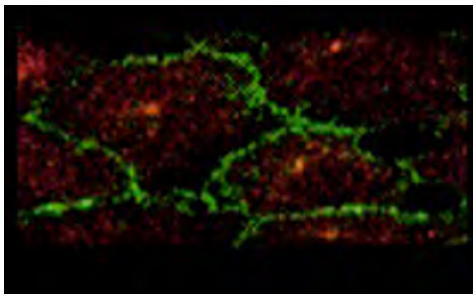
62 H-Index | 171 Publications | $13.7 M in Research Funding

Research Interests

Lung Microcirculation
Lung Endothelium
Pulmonary Vascular Disease
Acute Respiratory Distress Syndrome
Lower Respiratory Tract Infection
End-Organ Dysfunction

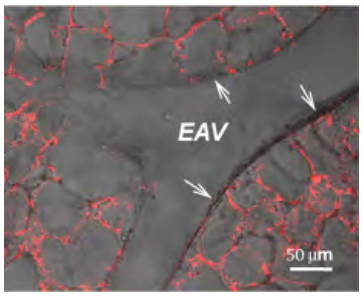
Experimental Capabilities

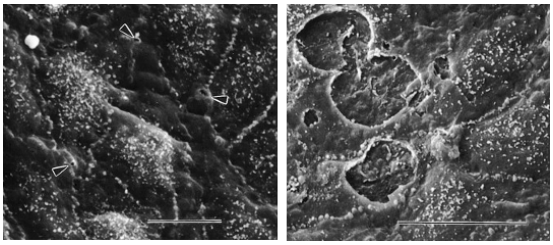
Endothelial Cell Culture
Isolated Perfused Lung
Assessment of Lung Injury
Translational Research in Humans
Transgenic Technology
Lung Infection



Bacterial toxin (red) inside endothelium during infection. Endothelial cell borders are shown in green.

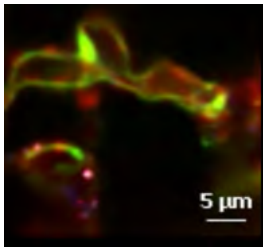
Lectin binding discriminates the capillary (red) from arterial (EAV, or extra-alveolar vessel) endothelial cell phenotype.





Pulmonary endothelium in a healthy circulation with intact cell junctions (left panel; arrowheads) and following lung injury (right panel) with gaps between cells that allows for fluid accumulation in the tissue. Scale bar is 10 µm.

Expression of lung endothelial cell tau protein is shown in capillaries (green).



2024
American Journal of Respiratory and Critical Care Medicine
Impact Factor: 24.7
"Tackling Brain and Muscle Dysfunction in Acute Respiratory Distress Syndrome Survivors"

2024
Physiological Review
Impact Factor 29.9
"Lung Endothelium, Tau, and Amyloids in Health and Disease"

2018
American Journal of Respiratory & Critical Care Medicine
Impact Factor 16.2
"...Neurotoxic Amyloids in Critically Ill Patients..."

2024
Circulation
Impact Factor 35.5
"Endothelial Heterogeneity in the Response to Autophagy Drives Small Vessel Muscularization in Pulmonary Hypertension"

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