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30 Peer-Reviewed Manuscripts

## Research Interests

Pulmonary Vascular Disease  
Extracellular Vesicles (EVs)

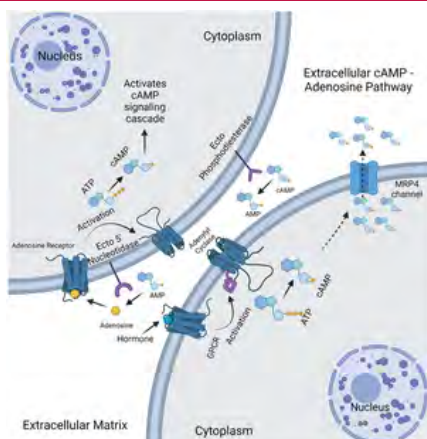
Endothelial Dysfunction  
Pulmonary Hypertension

EVs as Drug Delivery Systems  
Deleterious EV Prevention

## Experimental Capabilities

Flow Cytometry of Evs  
EV Localization Analysis by Confocal Microscopy

Extracellular Vesicle Isolation and Characterization  
Pulmonary Vascular Histology



(Left) The transmission electron micrograph shows microparticles from normoxic rat pulmonary microvascular endothelial cells (MVECs) that have settled on the polycarbonate membrane (bottom of the image).

Confocal 3D image of extracellular vesicle (green) uptake into endothelial cells and localization to the Trans Golgi (red) near the nucleus (blue)

### 2019 AJP Lung Cellular and Molecular Physiology

“Extracellular Vesicles in Pulmonary Hypertension: Lessons from Mesenchymal Stromal Cell-Derived Exosomes”

### 2021 Advanced Biology

“Extracellular cAMP: The Past and Visiting the Future in cAMP-Enriched Extracellular Vesicles”

### 2020 Pulmonary Circulation

“The Changing Face of Pulmonary Hypertension Diagnosis: An Historical Perspective on the Influence of Diagnostics and Biomarkers”

### 2022 Cell Signaling

“Extracellular Vesicle-Induced Cyclic AMP Signaling”



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