



*The Office of Research for Medical Students*

### Research Project

Effects of exosomes derived from mesenchymal stem cells on acute lung injury.

**Date of request:** 10/29/2024

#### Contact Information

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### Research Project

The primary objective of this study is to investigate the therapeutic potential of exosomes derived from induced mesenchymal stem cells (MSCs) in treating acute lung injury in a mouse model. A particular focus will be placed on examining the role of microRNAs (MiRNAs) within the exosomes, as MiRNAs are key regulatory molecules involved in modulating inflammatory responses, cellular repair, and immune signaling pathways.

**Research Location:** Surgery, UH 8804

**Tele-research/remote opportunity?** No

**Will it require student to be physically present in the research location:** Yes

**Type of research:** Basic

**Summer project?** Yes

**Long-term project:** Yes

**Availability required to work on your project(s):**

Full time

**Prior experience or specific skills required to work on your project(s):**

Molecular biology techniques.