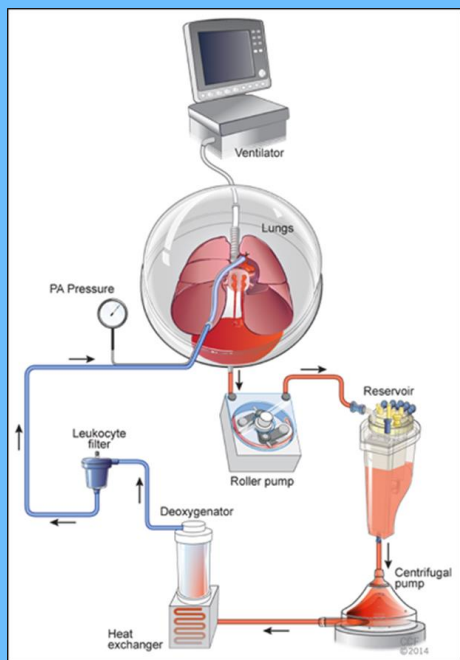


Human Lungs Airway Epithelium Up-regulate MicroRNA-17 & MicroRNA-548b in Response to Cold Ischemia & Ex-Vivo Reperfusion

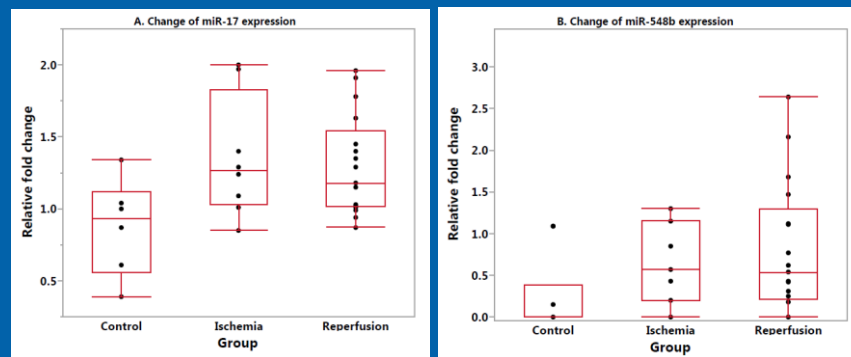
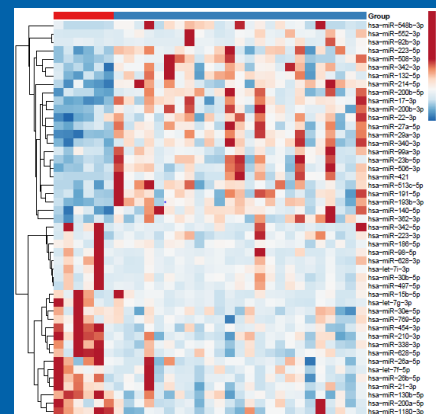
Objective: To use ex-vivo lung perfusion (EVLP) to study microRNA (miR) signature of human lung response to ischemia/reperfusion



EVLP

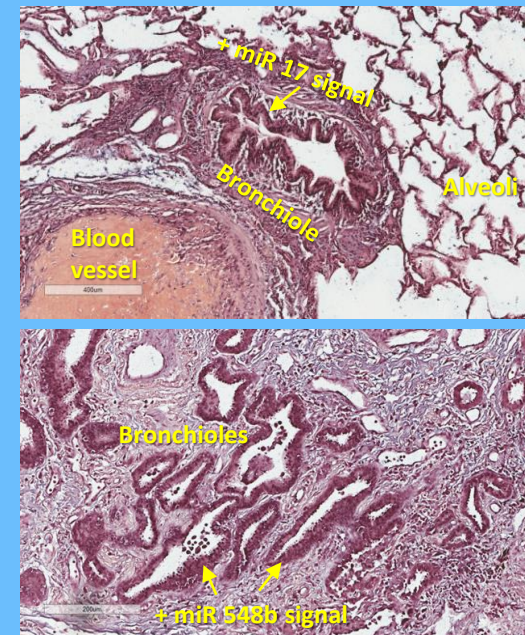
Methods & Results:

miR array: significant differential expression change of 47 miR after EVLP



Validation qPCR: ↑miR-17 & ↑miR-548b expression after EVLP

In situ Hybridization assay of miR-17 & miR-548b in human lung tissue after EVLP



Conclusions: EVLP can be utilized to study miR profiling of lung ischemia/reperfusion with potential therapeutic application

Elgharably et al., *Transplantation*. September 2020

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