

## Methods: Lung Slice Preparation

1. Anesthetize male, pathogen-free, 250-500g rat with sodium pentobarbitol and heparin.
2. Expose abdomen, cut renal artery, and expose chest cavity.
3. Remove salivary gland and cannulate trachea.
4. Cannulate pulmonary artery via right ventricle and perfuse lungs with 50-100mL warm PBS.
5. Infuse 15mL warm, 2% low melting agarose in PBS via trachea.
6. Tie off the trachea and remove lung *en bloc* and place on ice.
7. Set Leica VT100S vibratome to low speed, high vibration, and 275-300micron settings. As shown above, the lungs were cut across the horizontal plane of the middle lobe.
8. Lung slices are viable for 4-6 hours after preparation.

