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URMC TriState SenNet TMC Mouse Sacrifice and Organ Harvest

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We use this protocol and it's working

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Disclaimer

The authors have no conflict of interest to declare.

Abstract

This protocol outlines the method used to sacrifice and harvest the mouse lung tissue to perform downstream analyses for the TriState SenNet TMC Biospecimen Core at the University of Rochester, as part of the Cellular Senescence Network Program (SenNet).
Care was taken to reduce the pain and distress caused to the mice by performing all the procedures after anesthetising the mice.

Materials

1. Sodium Pentabarbital (Cat# NDC 25021-676-20, Sagent)
2. Insulin Syringes
3. Saline
4. 3mL Syringes
5. Eppendorf tubes
6. Scissors
7. 1X PBS

Troubleshooting

1 Sodium Pentobarbitol (60-90 mg/kg of body weight) was administered intraperitoneally to anaesthetize the mice prior to organ harvest.

2 After 5 min of drug administration, the animal response was assessed by pinching the mouse's foot with forceps and observing the withdrawal response/pedal reflex.

3 Upon successful anesthetization, the animals abdomen and chest was cut open and mice was exsanguinated by cardiac puncture.

4 Thereafter, the thoracic cavity was cut open to harvest the mouse lung.

5 The harvested organ was stored in PBS and kept On ice to perform future assays/ assessments.