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Collection and shipment of specimen for Visium Spatial Transcriptomics (vST/Visium ST) V.1

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Cellular Senescence Net...

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We use this protocol and it's working

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Abstract

These samples are part of the JAX-Sen project in the SenNet Consortium. Here we provide details on specimen collection and shipment procedures for Visium Spatial Transcriptomics (vST/Visium ST).

Troubleshooting

Reagents and Materials:

1
- 10% NBF fixative
- Tweezers
- Appropriate container for fixing

Quality Key Points:

2
- The tissue specimen should be always kept at 4 degrees Celsius and RNase-free.
- It is crucial to not store the tissue specimen at RT to avoid any cell death, and tissue and/or RNA degradation.

Procedure:

3 **Collection/Harvest:**

3.1 Animal was euthanized via cervical dislocation.

3.2 Animal was pinned to a necropsy tray which remained on wet ice throughout the harvest.

3.3 Animal was perfused with 20ml cold PBS.

3.4 Heart, pancreas, and kidney was collected and the specimen was fixed in 10-20 X volume of 10% NBF fixative for 24-48 hours at room temperature.

3.5 Samples were kept at 4 degrees Celsius until submission to histology for processing and embedding.

4 **Embedding:**

4.1 Samples to be embedded into FFPE blocks at Histology, Jax-BH.

4.2 Samples can be stored with Histology at Jax-BH (Rama/Juliana will coordinate further procedures)