

# NECROPSY OF MICE IN-PERSON TRAINING

UNIVERSITY OF SOUTH FLORIDA  
COMPARATIVE MEDICINE

Attendee Name: \_\_\_\_\_  
Print Sign Date

## Discuss/Review:

- \_\_\_ Tissues placed in a **cassette**, fixed in **10% buffered formalin** and thin sectioned creates a **histosection**.
- \_\_\_ Tissues placed in a **cryo-mold**, snap frozen in **liquid nitrogen** and thin sectioned creates a **cryosection**.
- \_\_\_ Tissues in a cassette should be **small**, typically <1cm in one dimension (diameter of a nickel).
- \_\_\_ Tissues in a cryo-mold are embedded in **OCT compound**.
- \_\_\_ Formalin will **dissolve** most markers; use a histology pen to label cassettes.
- \_\_\_ **Label** the cassettes with mouse and cohort identifiers.
- \_\_\_ Label the formalin container with the PI, date, IACUC protocol, and mouse identifier(s).
- \_\_\_ Keep tissues **moist** during necropsy.
- \_\_\_ **Fixation** takes approximately **12 hours** in formalin and **15 seconds** in liquid nitrogen.
- \_\_\_ If snap freezing tissues for molecular **extractions**, use a hot bead sterilizer for instruments.
- \_\_\_ Ensure formalin containers are **not overcrowded** with cassettes (e.g., 1:20 tissue to formalin volume).
- \_\_\_ **Dorsal** refers to the **upper-side** or back, and **ventral** refers to the **underside**.
- \_\_\_ Area of **interest** is placed **bottom** most into the cassette.

## Demonstrate/Assess:

- \_\_\_ Small tissue **fragments** are placed between **sponges**.
- \_\_\_ Remove the **brain** by cutting at the base of the skull and along the mid-longitudinal suture line.
- \_\_\_ Open the thoracic and abdominal cavities.
- \_\_\_ Subcutaneously (SC), **mammary tissue** and some **lymph nodes** are collected.
- \_\_\_ Collect the **heart** and lungs.
- \_\_\_ **Insufflate** the **lungs** using a blunted 25g needle.
- \_\_\_ Collect the **liver**, **transect** the lobes.
- \_\_\_ Collect the **pancreas**.
- \_\_\_ Collect the **spleen**.
- \_\_\_ Collect the kidneys.
- \_\_\_ **Transect** the **kidneys** ("L" for left and longitudinal).
- \_\_\_ Collect the stomach and **intestines**.
- \_\_\_ **Insufflate** the intestines and create a **Swiss roll**.
- \_\_\_ Collect inguinal (SC), submandibular (with salivary glands), and mesenteric **lymph nodes**.

Training & assessment provided by: \_\_\_\_\_  
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