

Session 5: Mouse Blood Collection Techniques

Pre-requisites: Session 1 and Session 2

Overview: A variety of blood withdrawal techniques may be used in the laboratory mouse and rat. The chosen route of blood collection should minimize pain and distress to the animal while still achieving study objectives. Instruction is provided on the basics of proper blood collection techniques. This is a hands-on training session performed in the vivarium upon, which provides Guidelines referring to: Chronic vs Acute or single blood withdrawal.

Required reading/pre-course material: Video is available at:

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=79f1506e-2aa7-4115-b41f-a8b900f1df90>

and must be viewed before attending this class. A written training module pertinent to Blood Collection Techniques in the Mouse will also be passed out at the time of training.

Mouse Methods:

- Prep for collection
- Needle size and volumes
- Dorsal Pedal Vein
- Cardiac Exsanguination (under anesthesia and terminal only)
- Tail Vein Nick
- Monitoring
- Needle Safety
- What to do if you poke yourself with the needle or inject yourself
- Sanitation Procedures
- Documentation Procedures