

Session 6: Blood Collection Technique Training in the Rat

Pre-requisites: Session 1 and Session 3

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.

Pre-course video review is available at:

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=83c10406-bc25-466b-8ec5-a8b900f2f094>

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=a1356039-bfe6-49c5-8ec8-a8b900f2b226>

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=ed44ea0f-4605-4736-bc3d-a8b900f2aac8>

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=c83b34af-c2f2-4b6c-a172-a8b900f25c2c>

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

Rat Methods:

- Prep for collection
- Needle size and volume
- Saphenous Vein
- Jugular Vein (under anesthesia)
- Cardiac Exsanguination (under anesthesia and terminal only)
- Tail Vein (Needle Collection)
- Tail Vein (Aspirate Collection)
- Tail Artery Collection (under Anesthesia)
- Tail Vein Catheter
- Monitoring
- Needle Safety

- What to do if you poke yourself with the needle or inject yourself
- Sanitation and Documentation Procedures